

फूलपुर इकाई
PHULPUR UNIT

IFFCO

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

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

Date: 27.04.2024

To,

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

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

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

Sir,

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

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

Thanking you,

Your's faithfully
For Indian Farmers Fertiliser Cooperative Ltd.

Sanjay Kudesia

(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. Ghyaganagar, Prayagraj-212404 (U.P.) Phone : (05332) 253374,251243
पोस्ट : गिहानगर, प्रयागराज-212404 (उ.प्र.) फोन : (05332) 253374, 251243

ठार / Gram : इफको गिहानगर, IFFCO Ghyaganagar, फैक्स / Fax : General - (05332) 251252, Maintenance (05332) 251263
ईमेल / E-Mail : phulpur@iffco.in वेबसाइट / Website : www.iffco.in



Environmental Clearance Condition Wise Compliance Status

Project Code: UP-83-204-2006

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

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

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

Specific Conditions:

Sr.No.	Conditions	Compliance Status																																																
1.	The gaseous emissions (SO ₂ , NO _x , NH ₃ , Urea dust) particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. CO ₂ recovery plant shall be installed to reduce CO ₂ emissions in the environment. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control systems(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	<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 / MoEFCC, New Delhi.</p> <p>Stack Analysis (Range) actually obtained during the period of October-2023 to March-2024</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Point</th> <th>SO₂ (mg/Nm³)</th> <th>SPM (mg/Nm³)</th> <th>AMMONIA (mg/Nm³)</th> <th>UREA DUST (mg/Nm³)</th> <th>NO_x (mg/Nm³)</th> </tr> </thead> <tbody> <tr> <td>Power Plant-I stack</td> <td>310-275</td> <td>30-26</td> <td>-</td> <td>-</td> <td>227-175</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>37.20-33.60</td> <td>42.30-39.20</td> <td>-</td> </tr> <tr> <td>Prilling Tower -II</td> <td>-</td> <td>-</td> <td>37.50-35.50</td> <td>42.40-40.30</td> <td>-</td> </tr> <tr> <td>Pri. Reformer -I stack</td> <td><1.0</td> <td>-</td> <td>-</td> <td>-</td> <td>136-120</td> </tr> <tr> <td>Pri Reformer -II stack</td> <td><1.0</td> <td>-</td> <td>-</td> <td>-</td> <td>136-120</td> </tr> <tr> <td>GT-HRSG</td> <td><1.0</td> <td>-</td> <td>-</td> <td>-</td> <td>24 -19</td> </tr> </tbody> </table>	Sample Point	SO ₂ (mg/Nm ³)	SPM (mg/Nm ³)	AMMONIA (mg/Nm ³)	UREA DUST (mg/Nm ³)	NO _x (mg/Nm ³)	Power Plant-I stack	310-275	30-26	-	-	227-175	Power Plant-II stack	-	-	-	-	-	Prilling Tower -I	-	-	37.20-33.60	42.30-39.20	-	Prilling Tower -II	-	-	37.50-35.50	42.40-40.30	-	Pri. Reformer -I stack	<1.0	-	-	-	136-120	Pri Reformer -II stack	<1.0	-	-	-	136-120	GT-HRSG	<1.0	-	-	-	24 -19
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2.	In urea plant, particulate emissions shall not exceed 50 mg/m ³ . Monitoring of the prilling tower shall be carried out as per CPCB guidelines. Hydrocarbon monitors shall be installed.	<p>A 450 MT per day Carbon Dioxide Recovery Plant to recover CO₂ from flue gases of primary reformer has been installed, commissioned and in operation since Dec. 2006. This has resulted in a substantial reduction of CO₂ emission in the environment. Report of Stacks emission and Ambient Air quality analysis by NABL accredited, (third party) is attached as Annexure-1.</p> <p>Monitoring of the prilling tower is being carried out as per CPCB guidelines. The particulate emissions (42.40- 39.20.20 mg/ Nm³) from Urea plant is always well within the prescribed norms. On-line Methane analyzers are installed in Ammonia plant to monitor Hydrocarbons in addition to Gas Chromatographs installed in Laboratory.</p>																																																

<p>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.</p>	<p>Five ambient air quality monitoring stations have been set up in consultation with UPPCB at locations suggested by Regional Officer, UPPCB, Prayagraj. Ambient air quality monitoring data is submitted monthly to UPPCB, Lucknow, CPCB, New Delhi & Regional Office, MoEFCC, Lucknow. All values are within the limit.</p> <p>Ambient Air Quality (Range) actually obtained during the period of October-2023 to March-2024.</p> <table border="1" data-bbox="609 856 1057 1486"> <thead> <tr> <th>AAQ Monitoring Stations</th> <th>PM_{2.5} (microgram/m³)</th> <th>PM₁₀ (microgram/m³)</th> <th>SO₂ (microgram/m³)</th> <th>Ammonia (microgram/m³)</th> <th>NOx (microgram/m³)</th> </tr> </thead> <tbody> <tr> <td>CORDET</td> <td>38-29</td> <td>59-47</td> <td>18-12</td> <td>39-28</td> <td>24-14</td> </tr> <tr> <td>Central School</td> <td>38-28</td> <td>58-48</td> <td>18-10</td> <td>38-28</td> <td>25-15</td> </tr> <tr> <td>Railway Gate</td> <td>39-28</td> <td>59-48</td> <td>25-10</td> <td>38-29</td> <td>25-12</td> </tr> <tr> <td>Behind R.O.</td> <td>39-28</td> <td>59-48</td> <td>19-11</td> <td>38-28</td> <td>25-16</td> </tr> <tr> <td>Gate No.4</td> <td>38-28</td> <td>58-48</td> <td>18-10</td> <td>38-28</td> <td>25-16</td> </tr> </tbody> </table>	AAQ Monitoring Stations	PM _{2.5} (microgram/m ³)	PM ₁₀ (microgram/m ³)	SO ₂ (microgram/m ³)	Ammonia (microgram/m ³)	NOx (microgram/m ³)	CORDET	38-29	59-47	18-12	39-28	24-14	Central School	38-28	58-48	18-10	38-28	25-15	Railway Gate	39-28	59-48	25-10	38-29	25-12	Behind R.O.	39-28	59-48	19-11	38-28	25-16	Gate No.4	38-28	58-48	18-10	38-28	25-16
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<p>4. Total water requirement after expansion shall not exceed 35,500 m³/d. All the effluent generated shall be recycled & reused in the process to reduce the fresh water.</p>	<p>Total water consumption after commissioning of Capacity Enhancement Project is around 32212 M³/d during October-2023 to March-2024, as against envisaged quantity of 35500 M³/d. All the effluent generated is recycled & reused in the plant process / irrigation of farmland of our Farmer Training Institute and Green belt after adequate treatment within our premises.</p> <p>No effluent is discharged outside the premises except during the rainy season. The quality of final treated effluent always conforms to the standards prescribed under the E (P) Act 1986 and norms laid down by the U.P. Pollution Control Board Lucknow. Report of Effluent water generated and recycled/reused, and ground water quality being abstracted, by NABL accredited, (third party) is attached as Annexure-2.</p>
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consumption of green belt development. No effluent shall be discharged outside the premises except during the rainy season after meeting the norms prescribed under the E (P) Act, 1986 and UPPCB, whichever are more stringent.		Range of Effluent Analysis (Guard Pond) during the period of October-2023 to March-2024. (All values are in mg/l except pH)			
Characteristics	Characteristics	Characteristics	Characteristics	Characteristics	Characteristics
pH	7.50 - 7.20	Total Chromium as Cr	N.T.	Free Ammonia As N	0.88 - 0.17
TSS	63 -36	Hexavalent Chromium as Cr ⁶⁺	N.T.	Total Kjeldahl Nitrogen as N	40.80 - 31.42
BOD ₅ at 27 deg C	28.00 -17.00	Zinc as Zn	N.T.	Nitrate Nitrogen as N	5.47 - 2.47
Oil & Grease	4 - N.T.	COD	84.00-42.00	Dissolved Phosphate	0.91 -0.63
Colour & Odour	Absent	Chlorides as Cl	985 - 831	Vanadium as V	N.T.

5.	Regular monitoring of ground water by installing 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.	<p>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.</p> <p>Ground Water Quality (Range) during October-2023 to March-2024.</p> <table border="1"> <thead> <tr> <th colspan="2">Date of Sampling / Analysis</th> <th colspan="2">Location (within plant)</th> </tr> <tr> <th></th> <th>Near</th> <th>Near</th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td>Chromium Sludge Disposal Pit</td> <td>Guard Pond</td> <td></td> </tr> <tr> <td>pH</td> <td>7.45 - 7.35</td> <td>7.45 - 7.20</td> <td></td> </tr> <tr> <td>Hexavalent Chromium (ppm as Cr⁶⁺)</td> <td>N.T.</td> <td>N.T.</td> <td></td> </tr> <tr> <td>Total Chromium (ppm as Cr)</td> <td>N.T.</td> <td>N.T.</td> <td></td> </tr> <tr> <td>Ammonical Nitrogen (ppm as N)</td> <td>N.T.</td> <td>N.T.</td> <td></td> </tr> <tr> <td>Nitrate Nitrogen (ppm as N)</td> <td>1.66 - 1.45</td> <td>1.00 - 1.38</td> <td></td> </tr> <tr> <td>Total Dissolved Solid (ppm)</td> <td>970 - 930</td> <td>950 - 920</td> <td></td> </tr> </tbody> </table>	Date of Sampling / Analysis		Location (within plant)			Near	Near			Chromium Sludge Disposal Pit	Guard Pond		pH	7.45 - 7.35	7.45 - 7.20		Hexavalent Chromium (ppm as Cr ⁶⁺)	N.T.	N.T.		Total Chromium (ppm as Cr)	N.T.	N.T.		Ammonical Nitrogen (ppm as N)	N.T.	N.T.		Nitrate Nitrogen (ppm as N)	1.66 - 1.45	1.00 - 1.38		Total Dissolved Solid (ppm)	970 - 930	950 - 920	
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6.	As per the Fly ash notification, 100% utilization of the fly ash generated shall be ensured. Ash shall be provided to different users for making bricks etc. or properly used for filling low-lying areas of the township, surrounding villages and developing green belt.	<p>We have complied with the provision of Fly ash notification issued by MOEF, New Delhi. Fly ash generated in the power plant is directly dispatched to the bonafide user like cement manufacturers and others. During last year (April-2023-March-2024), 91830 MT of Ash has been dispatched and utilized by Cement Industries and others against the generation of 46202 MT. Fly Ash is also utilized in manufacturing of bricks in the plant premises, and land reclamation etc, hence, Ash Utilization is more than 100% of Ash generation.</p> <p>During the period, from October 2023 to March-2024, 45448 MT Fly Ash has been dispatched and utilized by others against the generation of 21378 MT.</p>																																				

	<p>authorized recyclers / reproprocessors. Waste oil shall be used in steam generation plants as fuel alongwith coal or sold to authorized recyclers/reproprocessors.</p>	<p>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</p>
7.	<p>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.</p>	<p>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.</p>
8.	<p>The company shall implement all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for fertilizer industries.</p>	<p>We have already implemented the recommendations made in the charter on corporate Responsibility for Environment Protection (CREP) which are applicable to IFFCO Phulpur unit.</p>
9.	<p>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.</p>	<p>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.</p>
10.	<p>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.</p>	<p>The green belt already developed is being maintained. During the last six months grass cutting, irrigation & maint. of green belt has been done. Native plant species have been planted in consultation of DFO. Prayagraj to develop green belt in & around factory, township and CORDET. 35625 no. of saplings have been planted, during April-2023 to March-2024. Area covered as percentage of total area owned by the industry - 34.8%. Density of tree plantation is being maintained as per the guideline.</p>

General Conditions:

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

7.	<p>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.</p>	<p>Compliance progress report along with monitored data is being submitted to monitoring agencies.</p>
8.	<p>The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the U.P. Pollution Control Board/Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in. This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional Office at Lucknow.</p>	<p>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.</p>
9.	<p>The Project Authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work, if any.</p>	<p>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.</p>



Prakriti Consultants Services

Category 'A' QCI-NABET Accredited EIA Consultant Organization
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 E-mail: prakriti_mail@rediffmail.com, prakriticonsultantservices@gmail.com
 Tel: 0522-4002545, Mobile: 09415518818,
 GSTIN :- 09AAFP5925G1ZY

Test Report for Stack Monitoring

ULR- TC824124000000579



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

*BPL - Below Ambient 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 the issuer.
 3. The report shall not be used for any other purpose than declared by the issuer.
 4. Prakriti Consultants Services are not regulatory agency hence no part of this report should be used for legal purpose other than compliance.
 5. No deviation or per the Standard Method.

Authorized Signatory


 (Dr. Divya Misra)
 Managing Director

"End of this Test Report"

Page 1 of 1



Prakriti Consultants Services

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 E-mail: prakriti_nul@rediffmail.com, prakriticonsultantservices@gmail.com
 Tel: 0522-4002145, Mobile: 99415518818,
 GSTIN - 09AAJRP5929G1ZV

Test Report for Stack Monitoring

ULR- TC824124000000580



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

*BTL = Below Detection Limit

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(Dr. Divya Misra)
 Managing Director

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 Tel: 0522- 4002345, Mobile: 09415518818,
 GSTIN - 09AAJFP5925G1ZY

Test Report for Stack Monitoring

ULR- TC824124000000578



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

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 5. No deviation as per the Standard Method.

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 Managing Director

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 Tel: 0522-4002545, Mobile: 09415518818,
 GSTIN - 09AAJFF5925G12Y

Test Report for Stack Monitoring

ULR- TC82412400000577



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

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 Tel: 0522- 4002545, Mobile: 09415518818,
 GSTIN - 09AAJPP5925G1ZY

Test Report for Stack Monitoring

ULR- TC824124000000575



Report No. PCS/SE/01/2024	Reference No. PCS/IFFCO/01/2024	Issue Date 09/04/2024
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1. Name & address of Industry	M/s. Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj		
2. Type of Industry	Fertilizer Industry	7. Method of Sampling	PCS/WI/SAMP/20
3. Sample collected by	Mr. Vipin & Mr. Sunil	8. Date of sampling	01/04/2024-02/04/2024
4. Weather Condition	Clear Sky	9. Sample receipt in lab	03/04/2024
5. Sampling Location	Ammonia-I Primary reformer	10. Date of Analysis	03/04/2024-05/04/2024
6. Lab Code	PCS24/27/370	11. Sample Analyzed By	Mr. Ajay

S. No.	Particulars	Value		
1	Duct Attached to	Ammonia-I Primary reformer		
2	Type of Stack	Circular		
3	Stack height from Ground (m)	33		
4	Material of Construction of duct	M.S.		
5	Normal Operating hour	As per requirement		
6	Type of fuel used	LNG		
7	Sampling Duration	30		
8	Atmospheric Pressure (mmHg)	740		
	Pollutants	Reference Method	Result	Standard^a
	PM (mg/Nm ³)	IS 11255 PART-1:1985	8.9	-
	SO ₂ (mg/Nm ³)	IS 11255 PART-2:1985	<1.0	-
	NOx (mg/Nm ³)	PCS-SOP/ST/NOx/12:2021	138	-

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 GSTIN - 09AAJFP3925G12Y

Test Report for Stack Monitoring

ULR- TC824124000000576



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

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 QSTIN :- 09AAJFP5925G12Y

Test Report for Ambient Air Quality					
ULR- TC82412400000571					
Report No. PCS/AAQ/05/2024		Reference No. PCS/IFFCO/01/2024		Issue Date 09/04/2024	
1. Name & Address of Industry:		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj			
2. Type of Industry:		Fertilizer industry		7. Method of Sampling: PCS/WI/SAMP/20	
3. Sampling Location:		Kendriya Vidyalaya		8. Date of Monitoring : 01/04/2024-02/04/2024	
4. Monitoring done by:		Mr. Vipin, & Mr. Sunil		9. Sample Receipt in Lab: 03/04/2024	
5. Weather Condition :		Clear Sky		10. Date of Analysis: 03/04/2024 - 05/04/2024	
6. Lab Code:		PCS24/27/367		11. Sample Analyzed By: Mr. Ajay	
Sl.No.	Parameters	Unit	Method of Measurement	Result	Standards*
1	Particulate Matter (PM ₁₀)	(µg/m ³)	IS: 5182 Part (23)	54	100
2	Particulate Matter (PM _{2.5})	(µg/m ³)	IS 5182 (Part-24)	34	60
3	Sulphur Dioxide (SO ₂)	(µg/m ³)	IS : 5182 (Part-2)	15.2	80
4	Nitrogen Dioxide (NO ₂)	(µg/m ³)	IS: 5182 (Part 6)	20.6	80
5	Ammonia(NH ₃)	(µg/m ³)	IS: 5182 (Part-25)	24.8	400

*NABQSCPCB Notification, dated 18.11.2009

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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
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 Tel: 0522- 4002545, Mobile: 09415518818,
 GSTIN - 09AAJFP3925G1ZY

Test Report for Ambient Air Quality

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

*NAAQS CPCB Notification, dated 18.11.2009

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GSTIN : 09AAJFP5925G12Y

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

*NAAQS CPCB Notification, dated 18.11.2009

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Tel: 0522-4002545, Mobile: 09415518818,
GSTIN - 09AAJFP3925G1ZY

Test Report for Ambient Air Quality

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

*NAAQS CPCB Notification, dated 18.11.2009

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

*NAAQS/CPCB Notification, dated 18.11.2009

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GSTIN : 09AAJFP5925G1ZY

Test Report for Ambient Air Quality

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

*NAAQS CPCB Notification, dated 18.11.2009

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 GSTIN: 09AAJFF5925Q1Z7

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



*NAQS/CPCB Notification, dated 18.11.2009

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Authorized Signatory

(Dr. Divya Misra)
 Managing Director

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

Test Report for Ambient Air Quality

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

*NAAQIS CPCB Notification, dated 18.11.2009

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Authorized Signatory

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Managing Director

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GSTIN :- 09AAJFP5925G1ZV

Test Report for Ambient Air Quality

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

*NAAQS CPCB Notification, dated 18.11.2009

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Managing Director

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Services Available

Environmental Monitoring, Preparation of EIA/EMP, Baseline Data generation for Air, Water, Soil, Noise & Microbiology
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Tel: 0522- 4002545, Mobile: 09415518818,
GSTIN :- 09AAJFP5925G1ZY

Test Report for Ambient Air Quality					
ULR- TC824124000000567					
Report No. PCS/AAQ/01/2024		Reference No. PCS/IFFCO/01/2024		Issue Date 09/04/2024	
1. Name & Address of Industry: M/s. Indian Farmers Fertilizer Cooperative Limited Phulpur unit, Prayagraj					
2. Type of Industry: 3. Sampling Location: 4. Monitoring done by: 5. Weather Condition : 6. Lab Code:		Fertilizer industry Near Railway Gate Mr. Vipin, & Mr. Sunil Clear Sky PCS24/27/363		7. Method of Sampling: 8. Date of Monitoring : 9. Sample Receipt in Lab: 10. Date of Analysis: 11. Sample Analyzed By:	
				PCS/WI/SAMP/20 01/04/2024-02/04/2024 03/04/2024 03/04/2024 – 05/04/2024 Mr. Ajay	
Sl. No.	Parameters	Unit	Method of Measurement	Result	Standards*
1	Particulate Matter (PM ₁₀)	($\mu\text{g}/\text{m}^3$)	IS: 5182 Part (23)	55	100
2	Particulate Matter (PM _{2.5})	($\mu\text{g}/\text{m}^3$)	IS 5182 (Part-24)	35	60
3	Sulphur Dioxide (SO ₂)	($\mu\text{g}/\text{m}^3$)	IS: 5182 (Part-2)	11.9	80
4	Nitrogen Dioxide (NO ₂)	($\mu\text{g}/\text{m}^3$)	IS: 5182 (Part 6)	22.4	80
5	Ammonia(NH ₃)	($\mu\text{g}/\text{m}^3$)	IS: 5182 (Part-25)	28.7	400

*UNEP/CPCB Notification, dated 18.11.2009

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Managing Director

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 GSTIN: 09AAJPP5925G12Y

Stack Emission Data and Analytical Results

ULR- TC824124000000572



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

*BDL - Below Detection Limit

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Stack Emission Data and Analytical Results

ULR- TC82412400000573



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

*BDL = Below Detection Limit

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Test Report of Effluent Water (Guard Pond Inlet)

ULR- TC824124000000636

Report No. PCS/WWQ/01/2024	Reference No. PCS/IFFCO/01/2024	Issue Date 19/04/2024
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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:	02/04/2024
4. Sampling Done by:	Mr Vipin & Mr Sunil	9. Sample Received in Lab:	03/04/2024
5. Weather Condition :	Clear Sky	10. Date of Testing :	03/04/2024 - 06/04/2024
6. Lab Code:	PCS24/70/424	11. Analyzed by:	Ms Alka Singh

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

**Standard as per Schedule VI issued by Rule 202 of the Environment (Protection) Second Amendment Rules, 1987 and/or vide G.O.S.R. 42202 dated 18.10.1990, published in the Gazette No. 174 dated 19.10.1990.

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GSTIN -> 09AAJFP5925G1ZV

Test Report of Effluent Water (Guard Pond Outlet)

ULR- TC824124000000637



Report No.	Reference No.	Issue Date			
PCS/WWQ/02/2024	PCS/IFFCO/01/2024	19/04/2024			
1. Name & address of Industry:	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad UP				
2. Type of Industry:	Fertilizer	7. Method of Sampling	As per Standard Method		
3. Sampling Location:	Guard Pond Outlet	8. Date of Sampling:	02/04/2024		
4. Sampling Done by:	Mr Vipin & Mr Sunil	9. Sample Received in Lab:	03/04/2024		
5. Weather Condition :	Clear Sky	10. Date of Testing :	03/04/2024 - 06/04/2024		
6. Lab Code:	PCS23/187/1209	11. Analyzed by:	Ms Alka Singh		
S. N	Parameters	Unit	Reference Method 23 rd Edition	Results	Standard*
1.	pH	-	APHA 4500H+-B	6.95	6.5 - 8.5
2.	Temperature	°C	APHA 2550 B	30	-
3.	Colour	Hazen	APHA 2120B	5.0	-
4.	Odour	-	APHA 2150B	Odourless	-
5.	TDS	mg/l	APHA 2540C	1920	-
6.	TSS	mg/l	APHA 2540D	31.0	100
7.	Chloride as Cl	mg/l	APHA 4500-Cl-B	932	-
8.	COD	mg/l	APHA 5220-C	43.0	-
9.	BOD (3 Days at 27°C)	mg/l	IS 3025 (Part 44)	19.0	-
10.	Total Ammonical Nitrogen as N	mg/l	APHA 4500 NH ₃ -C	22.1	50
11.	Total Kjeldahl Nitrogen as N	mg/l	APHA 4500 Norg-B	34.56	75
12.	Free Ammonia as N	mg/l	APHA 4500 NH ₃ -C	0.18	2.0
13.	Phosphate as P	mg/l	APHA 4500 P-D	0.58	-
14.	Nitrate as N	mg/l	APHA 4500-NO ₃ -B	1.64	10.0
15.	Fluoride as F	mg/l	APHA 4500 F-D	0.77	2.0
16.	Total Residual Chlorine	mg/l	APHA 4500 Cl-B	<0.1	1.0
17.	Oil & Grease	mg/l	APHA 5200 B	<2.0	10
18.	Zinc as Zn	mg/l	APHA 3111 B	0.046	5.0
19.	Total Chromium as Cr	mg/l	APHA 3111-B	<0.05	2.0

*Standard as per Schedule VI (control by Rule 29) of the Environment Protection Act, 1986 and/or G.O.S.R. 42351 dated 07.05.2016, published in the Gazette No. 174 dated 08.05.2016.

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GSTIN :- 09AAJFP5925G1ZY

Test Report of Waste Water				
ULR- TC82412400000634				
Report No. PCS/WWQ/01/2024		Reference No. PCS/IFFCO/01/2024		Issue Date 19/04/2024
1. Name & Address of Industry: M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad UP				
2. Type of Industry	Fertilizer	8. Lab Code	PCS24/70/422	
3. Sampling Location	STP Inlet	9. Date of Sampling	02/04/2024	
4. Sample Collected by	Mr Vipin & Mr Sunil	10. Sample Receipt in Lab	03/04/2024	
5. Analyzed by	Ms. Alka Singh	11. Date of Testing	03/04/2024 - 06/04/2024	
6. Weather Condition	Clear Sky			
7. Method of Sampling	As per Standard Method			
S. No.	Parameter	Units	Reference Method	Results
1.	pH	-	APHA 4500H+ - B	8.30
2.	Total Suspended Solids (TSS)	mg/l	APHA 2540-D	64.0
3.	BOD (3days at 27°C)	mg/l	IS:3025 (Part 44) 1993 RA 2009	86.0

*Standard as per section 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), Notified vide G.S.O. 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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GSTIN :- 09AAJFP5925G1ZY

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

*Standard as per section 4 and 23 of the Environment (Protection) Act, 1986 (29 of 1986), Notified vide G.S.R. 1285 (II) 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

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Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/ETP, Consenters from
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GSTIN - 09AAJFP5925G1ZY

Test Report of Waste Water

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

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

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 Tel: 0522- 4002545, Mobile: 09415518818,
 GSTIN :- 09AAJFP5925G1ZV



Test Report for Filter Raw Water

ULR- TC824124000000615

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

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

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

*As per APHA/AWWA, 22nd Ed. (2012) ** NR= No reaction.
 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 source will have to be rejected.

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 - No deviation is per the Standard Method.

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 Managing Director

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GSTIN :- 09AAJFP5925G1ZY



Test Report for Filter Raw Water

ULR- TC824124000000615

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

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

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.50	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1040	---	---
3.	Turbidity	NTU	APHA 2130 B	0.22	1	5
4.	TDS	mg/l	APHA 2540 C	620	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	326	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	405	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl, B	58.3	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ , E	67.5	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ , E	1.83	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca, B	61.3	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg, B	43.7	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na, B	108	-	-
13.	Potassium as K	mg/l	APHA 3500-K, B	<10.0	-	-
14.	Dissolved Silica as (SiO ₂)	mg/l	APHA 4500-Si-C	28.09	-	-
15.	Colloidal Silica as (SiO ₂)	mg/l		<0.1	-	-

*As per APHA/IS/ISWA, 22nd Ed. (2017) ** NR= No reduction

Note: It is recommended that the acceptable limit is to be improved. Values in excess of those mentioned under "acceptable" render the water non-acceptable, 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 source will have to be reworked.

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GSTIN - 09AAJPP3925012Y

Test Report for Borewell Water Quality



ULR- TC82412400000616

Report No.	Lab Reference No.	Issue Date
PCS/BWQ/01/2024	PCS/FFCO/01/2024	19/04/2024
1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.	
2. Type of Industry	Fertilizer	8. Method of Sampling
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling
4. Sampling Location	Borewell-1	10. Sample receipt in lab
5. Weather Condition	Clear Sky	11. Date of Analysis
6. Lab Code	PCS24/70/402	12. Sample Analyzed By
7. Quantity of Sample	2 liter	
		As per Standard Method
		02/04/2024
		03/04/2024
		03/04/2024 - 06/04/2024
		Ms Aika Singh

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.45	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1250	---	---
3.	Turbidity	NTU	APHA 2130 B	0.23	1	5
4.	TDS	mg/l	APHA 2540 C	740	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	385	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	408	200	600
7.	Chloride as Cl	mg/l	APHA 4500-CLB	107	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ E	98.6	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ E	2.10	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	65.1	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	55.5	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	128	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	26.33	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.039	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/WWA, 22nd Ed (2012); ** NR= No reaction.

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

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Managing Director

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GSTIN - 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

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

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GSTIN :- 09AAJFP5925G1Z7



Test Report for Borewell Water Quality

ULR- TC824124000000617

Report No.		Lab Reference No.		Issue Date		
PCS-BWQ/02/2024		PCS-IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry:		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer	8. Method of Sampling		As per Standard Method	
3. Sample Collected by		Mr Vipin & Mr Sumil	9. Date of sampling		02/04/2024	
4. Sampling Location		Borewell-2	10. Sample receipt in lab		03/04/2024	
5. Weather Condition		Clear Sky	11. Date of Analysis		03/04/2024 - 06/04/2024	
6. Lab Code		PCS24/70/403	12. Sample Analyzed By		Ms Alka Singh	
7. Quantity of Sample		2 liter				
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.55	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1180	---	---
3.	Turbidity	NTU	APHA 2130 B	0.25	1	5
4.	TDS	mg/l	APHA 2540 C	705	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	342	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	425	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	97.6	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	95.9	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.31	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	55.8	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	50.6	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	149	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	29.2	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.043	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/WWA, 22nd Ed. (2011) **NR= No reaction.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" indicate the water not suitable for all uses but 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 status will have to be improved.

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GSTIN - 09AAJFP5925G1ZV

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/02(a)/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.					
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method			
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024			
4. Sampling Location	Borewell-2	10. Sample receipt in lab	03/04/2024			
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024			
6. Lab Code	PCS24/70/403	12. Sample Analyzed By	Ms Alka Singh			
7. Quantity of Sample	2 liter					
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	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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 GSTIN :- 09AAJPP925G1ZY

Test Report for Borewell Water Quality



ULR- TC824124000000618

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

*As per APHA/APWA 22nd Ed (2012) ** NR=No reaction.

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

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Managing Director

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 GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/03(a)/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.					
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method			
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024			
4. Sampling Location	Borewell-3	10. Sample receipt in lab	03/04/2024			
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024			
6. Lab Code	PCS24/70/404	12. Sample Analyzed By	Ms Alka Singh			
7. Quantity of Sample	2 liter					
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

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

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

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GSTIN - 09AAJPP5029U12Y

Test Report for Borewell Water Quality



ULR- TC824124000000619

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/04/2024		PCS/IFPCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		5. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-4		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/405		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.40	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	930	---	---
3.	Turbidity	NTU	APHA 2130 B	0.29	1	5
4.	TDS	mg/l	APHA 2540 C	550	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	298	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	362	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	40.2	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	57.0	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	1.28	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	46.2	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	45.6	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	83.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu,B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	25.56	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr,B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni,B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn,D	0.036	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

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

Note: It is recommended that the permissible limit is to be implemented. Values in excess of those mentioned under 'acceptable' regarding water are suitable, but will may be referred in the presence of an alternative source up to the limits indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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GSTIN :- 09AAJFP5925G1Z7

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/04(a)/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.					
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method			
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024			
4. Sampling Location	Borewell-4	10. Sample receipt in lab	03/04/2024			
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024			
6. Lab Code	PCS24/70/405	12. Sample Analyzed By	Ms Alka Singh			
7. Quantity of Sample	2 liter					
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA; 22nd Ed. (2012) **NB* No detection.

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 source will have to be rejected.

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GSTIN - 09AAJFP92501ZY

Test Report for Borewell Water Quality



ULR- TC824124000000620

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/05/2024		PCS/TFPCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-5		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/406		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Aika Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.40	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	795	—	—
3.	Turbidity	NTU	APHA 2130 B	0.24	1	5
4.	TDS	mg/l	APHA 2540 C	472	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	280	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	392	200	600
7.	Chloride as Cl ⁻	mg/l	APHA 4500-CLB	11.5	250	1000
8.	Sulphate as SO ₄ ²⁻	mg/l	APHA 4500-SO ₄ E	29.4	200	400
9.	Nitrate as NO ₃ ⁻	mg/l	APHA 4500-NO ₃ E	1.54	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	44.2	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	42.3	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	74.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	30.46	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.045	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

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

Note: It is recommended that the acceptable limit is to be implemented. Values or limits of those parameters under "acceptable" means the water has suitable for drinking in the absence of an alternative source but up to the limits indicated under "permissible" limit in the absence of alternative source. Above indicate the samples with "NR" are not suitable.

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Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/06(a)/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer	8. Method of Sampling	As per Standard Method		
3. Sample Collected by		Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024		
4. Sampling Location		Borewell-5	10. Sample receipt in lab	03/04/2024		
5. Weather Condition		Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024		
6. Lab Code		PCS24/70/406	12. Sample Analyzed By	Ms Alka Singh		
7. Quantity of Sample		2 liter				
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

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

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

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 GSTIN :- 09AAJFP925G1ZV

Test Report for Borewell Water Quality



ULR- TCS2412400000621

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/06/2024		PCS/FFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr V/pin & Mr Sanil		9. Date of sampling		
4. Sampling Location		Borewell-6		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/407		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms. Aika Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.45	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	810	---	---
3.	Turbidity	NTU	APHA 2130 B	0.29	1	5
4.	TDS	mg/l	APHA 2540 C	480	500	3000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	298	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	391	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	15.3	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	29.8	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.18	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	50.9	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	44.9	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	69.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	30.8	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.048	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/CPWA, 22nd Ed. (2012) ** NR= Not Reported.

Note: It is recommended that the acceptable limit is to be implemented. Values or ranges of these mentioned analytes "acceptably" under the water use criteria, but still may be relevant in the absence of an alternative source (up to the limits indicated under "permissible" limit) in the absence of alternative source above which the source will have to be reported.

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GSTIN :- 09AAJIP5925G1ZY

Test Report for Borewell Water Quality

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

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Test Report for Borewell Water Quality

ULR- TC82412400000622

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/07/2024		PCS/PP/PCO/01/2024		19/04/2024		
1. Name & Address of Industry		M's Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-7		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/408		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms. Aika Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.45	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	950	---	---
3.	Turbidity	NTU	APHA 2130 B	0.22	1	5
4.	TDS	mg/l	APHA 2540 C	560	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	315	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	418	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl, B	22.97	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ , E	54.57	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ , E	2.31	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca, B	53.0	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg, B	45.60	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na, B	91.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K, D	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica (SiO ₂)	mg/l	APHA 4500-Si, C	29.4	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe, B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb, B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.046	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn, B	<0.02	0.1	0.3

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

Note: It is recommended that the acceptable limit as to be implemented. Values in excess of those mentioned under 'acceptable' makes the water not suitable, but still may be utilized 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 required.

Note:

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Authorized Signatory

(Dr. Divya Misra)
Managing Director

"End of this Test Report"

Page 1 of 1

Services Available

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Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN - 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

Report No.	Lab Reference No.	Issue Date				
PCS/BWQ/07(a)/2024	PCS/IFFCO/01/2024	19/04/2024				
1. Name & Address of Industry	M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.					
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method			
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024			
4. Sampling Location	Borewell-7	10. Sample receipt in lab	03/04/2024			
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024			
6. Lab Code	PCS24/70/408	12. Sample Analyzed By	Ms. Alka Singh			
7. Quantity of Sample	2 liter					
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	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 utilized in the absence of an alternative source but up to the limits indicated under "permissible" limit in the absence of alternative source where which the sources will have to be rejected.

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Managing Director

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Services Available

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Environmental and Safety Audit reports, Commissioning, Execution, Operation and Maintenance of STP/TP, Clearance from
Ground Water Board, Compliance of E.C., NOC from UPPCB, MoEF



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Tel: 0522-4002545, Mobile: 09415518818
GSTIN - 09AAJPP3925G12Y

Test Report for Borewell Water Quality



ULR- TC82412400000623

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/08/2024		PCS/FF/CO-01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method			
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024			
4. Sampling Location	Borewell-8	10. Sample receipt in lab	03/04/2024			
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024			
6. Lab Code	PCS24/70/409	12. Sample Analyzed By	Ms Alka Singh			
7. Quantity of Sample	2 liter					
Sl. No.	Parameters	Unit	Reference Method ^a	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	1090	---	---
3.	Turbidity	NTU	APHA 2130 B	0.28	1	5
4.	TDS	mg/l	APHA 2540 C	645	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	305	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	411	200	600
7.	Chloride as Cl	mg/l	APHA 4500-CLB	68.9	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ E	63.87	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ E	1.67	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	56.9	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	40.7	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	123.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu,B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	30.9	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr,B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni,B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn,D	0.041	5	1.5
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

^aAs per APHA/APWA 12th Ed. (2012) ** NR=No reaction

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

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Authorized Signatory

(Dr. Divya Misra)
Managing Director

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Environmental Monitoring, Preparation of EIA/EMP, Baseline Data generation for Air, Water, Soil, Noise & Meteorology
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 GSTIN :- 09AAJFP5925G1ZV

Test Report for Borewell Water Quality

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

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

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

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(Dr. Divya Misra)
 Managing Director

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GSTIN : 09AAJFP5929012Y



Test Report for Borewell Water Quality

ULR- TC82412400000624

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/09/2024		PCS/IF/CO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-9		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/410		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.30	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1310	---	---
3.	Turbidity	NTU	APHA 2130 B	0.25	1	5
4.	TDS	mg/l	APHA 2540 C	770	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	342	200	500
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	385	200	500
7.	Chloride as Cl	mg/l	APHA 4500-Cl, B	113	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ , E	116	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ , E	2.87	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca, B	57.7	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg, B	49.4	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na, B	146	-	-
13.	Potassium as K	mg/l	APHA 3500-K, B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	31.33	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe, B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb, B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.058	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn, B	<0.02	0.1	0.3

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

Note: It is recommended that the acceptable limit to be implemented. Values in excess of those mentioned under "permissible" render the water not suitable, but still may be treated 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 action will have to be required.

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Managing Director

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Tel: 0522- 4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G12Y

Test Report for Borewell Water Quality

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

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

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" under the water are suitable, but still may be tolerated in the absence of an alternative source but up to the limits indicated under "permissible" limit in the absence of alternative source above which the sources will have to be rejected.

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Managing Director

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Environmental and Safety Audit reports, Commissioning, Evacuation, Operation and Maintenance of STP/ETP, Chlorination lines
Ground Water Board, Compliance of E.I., NOC from UPPCB, MoEF



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Test Report for Borewell Water Quality



U/LR- TC82412400000625

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

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

SL No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.50	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1090	---	---
3.	Turbidity	NTU	APHA 2130 B	0.30	1	5
4.	TDS	mg/l	APHA 2540 C	645	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	320	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	391	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl, B	54.4	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ , E	70.3	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ , E	1.08	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca, B	55.8	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg, B	43.1	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na, B	104	-	-
13.	Potassium as K	mg/l	APHA 3500-K, B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	33.72	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe, B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb, B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.049	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn, B	<0.02	0.1	0.3

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

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of these maximum values '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 source will have to be rejected.

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- No operation as per the Standard Method.

Authorized Signatory

(Dr. Divya Mishra)
Managing Director

"End of the 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, Operation, Shutdown and Maintenance of STP/ETP, Chlorination Plant
 Ground Water Bead, Fouling of U.F., NDC from UPPCR, MSDF



Prakriti Consultants Services

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Tel: 0522- 4002545, Mobile: 09415518818.

GSTIN :- 09AAJFP5923G1ZV

Test Report for Borewell Water Quality

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

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



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 E-mail: prakriti_mail@rediffmail.com
 Tel: 0522-4002545, Mobile: 09415518818,
 GSTIN - 09AAJPP592501ZY

Test Report for Borewell Water Quality



ULR- TC824124000000626

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/11/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-11		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/412		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.45	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1130	---	---
3.	Turbidity	NTU	APHA 2130 B	0.38	1	5
4.	TDS	mg/l	APHA 2540 C	670	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	364	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	392	200	600
7.	Chloride as Cl	mg/l	APHA 4500-CLB	72.7	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ E	84.5	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ E	2.15	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca, B	71.2	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg, B	46.50	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na, B	103	-	-
13.	Potassium as K	mg/l	APHA 3500-K, B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	31.98	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe, B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb, B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.047	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn, B	<0.02	0.1	0.3

*As per APHA/AWWA, 22nd Ed. (2012) ** NR= Non-detectable

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. The user may be notified in the absence of an alternate source but up to the limits indicated under "permissible" limit in the absence of alternative source above which the source will have to be replaced.

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Authorized Signatory


 (Dr. Divya Misra)
 Managing Director

"End of the Test Report"

Page 1 of 2

Services Available:

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Microbiology
 Environmental and Safety Audit reports, Commissioning, Operation, Maintenance and Monitoring of SDCIP, Compliance from
 Ground Water Board, Compliance of E.C., NDC from UP & B, Mad P



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GSTIN - 09AAJFP5925G1Z7

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/11(a)/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		As per Standard Method		
4. Sampling Location		Borewell-11		9. Date of sampling		
5. Weather Condition		Clear Sky		02/04/2024		
6. Lab Code		PCS24/70/412		10. Sample receipt in lab		
7. Quantity of Sample		2 liter		03/04/2024		
				11. Date of Analysis		
				03/04/2024 - 06/04/2024		
				12. Sample Analyzed By		
				Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA: 22nd Ed. (2012) ** N/A = Not available.

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

Note:

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Authorized Signatory

(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
Environmental and Safety Audit reports, Commissioning, Execution, Operation and Maintenance of STP/TP, Cleanroom Area
Ground Water Based, Compliance of E.C., NOC from UPPCB, MoEF



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GSTIN :- 09AAJFP9925G12Y



Test Report for Borewell Water Quality

ULR- TC824124000000627

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

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

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" imply the water is not suitable, but will may be consumed 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 water 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, Emission, Duration and Maintenance of STP/ETP, Clearance from
Ground Water Board, Compliance of L.C., NOC from UPPCB, etc.



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GSTIN :- 09AAJFP5925012Y

Test Report for Borewell Water Quality

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

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

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 source will have to be rejected.

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Managing Director

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Page 2 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/CTP, Chlorination Plant
Ground Water Board, Compliance of E.C., MOC from UPPCB, MoEF



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 Tel: 0522-4002545, Mobile: 09415518818,
 GSTIN - 09AAJFP925G12Y



Test Report for Borewell Water Quality

ULR- TC824124000000628

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/13/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		
4. Sampling Location		Borewell-13		10. Sample receipt in lab		
5. Weather Condition		Clear Sky		11. Date of Analysis		
6. Lab Code		PCS24/70/414		12. Sample Analyzed By		
7. Quantity of Sample		2 liter		Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.30	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1810	---	---
3.	Turbidity	NTU	APHA 2130 B	0.35	1	5
4.	TDS	mg/l	APHA 2540 C	1050	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2140 C	406	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	495	200	600
7.	Chloride as Cl	mg/l	APHA 4500-CLB	175	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ E	188	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ E	2.92	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca ₂ B	59.6	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg ₂ B	64.2	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na ₂ D	242	-	-
13.	Potassium as K	mg/l	APHA 3500-K ₂ B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu ₂ B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	31.25	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr ₂ B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe ₂ B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni ₂ B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb ₂ B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn ₂ D	0.045	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn ₂ B	<0.02	0.1	0.3

*As per APHANAWA, 33rd 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 alternate source but up to the limits indicated under 'permissible' limit in the absence of alternate source above which the action will have to be reported.

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Authorized Signatory

(Dr. Divya Misra)
Managing Director

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Page 1 of 2

Services Available:

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 Ground Water Based, Compliance of LA, SDC from IFCB, MoEF.



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GSTIN :- 09AAJFP5925Q1ZY

Test Report for Borewell Water Quality

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

(Dr. Divya Misra)
Managing Director

Test of this Test Report

Page 2 of 2

Services Available

Environmental Monitoring, Preparation of EA/EMP, Baseline data generation for Air, Water, Soil, Noise & Vibration;
Environmental and Safety Audit reports, Commissioning, Execution, Operation and Maintenance of STP/TP, Chloroform from
Ground Water Borewell, Compliance of I.C., SOE from J.P.C.B. MoEF



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 GSTIN :- 09AAJFP5925Q1ZY

Test Report for Borewell Water Quality

ULR- TC824124000000629



Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/14/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer		8. Method of Sampling		
3. Sample Collected by		Mr Vipin & Mr Sunil		As per Standard Method		
4. Sampling Location		Borewell-14		9. Date of sampling		
5. Weather Condition		Clear Sky		02/04/2024		
6. Lab Code		PCS24/70/415		10. Sample receipt in lab		
7. Quantity of Sample		2 liter		03/04/2024		
				11. Date of Analysis		
				03/04/2024 - 06/04/2024		
				12. Sample Analyzed By		
				Ms Alka Singh		
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.40	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1019	---	---
3.	Turbidity	NTU	APHA 2130 B	0.37	1	5
4.	TDS	mg/l	APHA 2540 C	595	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	310	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	411	300	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	40.20	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	64.22	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.13	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	52.0	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	45.0	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	112.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu,B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	28.85	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr,B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni,B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn,D	0.039	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/WWA, 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 will may be tolerated in the absence of an alternative source. Set up to the "Permissible" limit in the absence of alternative source above which the source will have to be rejected.

Note:

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Authorized Signatory

(Dr. Divya Misra)
 Managing Director

"End of this Test Report"

Page 1 of 2

Services Available:

Environmental Monitoring, Preparation of EIA/EMP, Baseline data generation for Air, Water, Soil, Noise & Microbiology
 Environmental and Safety Audit reports, Commissioning, Erection, Operation and Maintenance of STP/DT, Clearance from
 Central Water Board, Compliance of J.J., NH from CPCB, MoEF



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E-mail: prakriti_md@rediffmail.com

Tel: 0522- 4002545, Mobile: 09415518818

GSTIN - 09AAJFP5925G1ZV

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/14(a)/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer	8. Method of Sampling	As per Standard Method		
3. Sample Collected by		Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024		
4. Sampling Location		Borewell-14	10. Sample receipt in lab	03/04/2024		
5. Weather Condition		Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024		
6. Lab Code		PCS24/70/415	12. Sample Analyzed By	Ms Alka Singh		
7. Quantity of Sample		2 liter				
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

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

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

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Managing Director

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Page 2 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, Clearance from
Ground Water Board, Compliance of E.C., SOC from UPPCB, MoEF.



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 Tel: 0522-4002545, Mobile: 09815518818,
 GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality						
ULR- TC82412400000630						
Report No.		Lab Reference No.			Issue Date	
PCS/BWQ/15/2024		PCS/IFCO/01/2024			19/04/2024	
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad				
2. Type of Industry		Fertilizer		8. Method of Sampling		As per Standard Method
3. Sample Collected by		Mr Vipin & Mr Sunil		9. Date of sampling		02/04/2024
4. Sampling Location		Borewell-15		10. Sample receipt in lab		03/04/2024
5. Weather Condition		Clear Sky		11. Date of Analysis		03/04/2024 - 06/04/2024
6. Lab Code		PCS24/70/416		12. Sample Analyzed By		Ms Alka Singh
7. Quantity of Sample		2 liter				
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.35	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1070	---	---
3.	Turbidity	NTU	APHA 2130 B	0.25	1	5
4.	TDS	mg/l	APHA 2540 C	630	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	348	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	394	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl,B	61.3	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ ,E	74.6	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ ,E	2.41	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	60.1	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	49.4	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	96.4	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si, C	25.96	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.036	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

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

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under "acceptable" under the water act subrule, but still may be tolerated in the absence of an alternate source but up to the limits indicated under "permissible" limit in the absence of alternative source where which the sources will have to be treated.

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Authorized Signatory

(Dr. Divya Misra)
 Managing Director

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Page 1 of 2

Services Available:

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 Environmental and Safety Audit reports, Commissioning, Execution, Operation and Maintenance of STP/ETP, Treatment from
 Ground Water Source, Compliance of E.C., SOI from UP/PCB, MOEF



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GSTIN - 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

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

*As per APISAWWA, 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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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, Chlorination from
Ground Water Board, Compliance of E.C., MDC from UPCL, MoEF



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 GSTIN :- 09AAJFP9923G1ZY

Test Report for Borewell Water Quality



ULR- TC82412400000631

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/16/2024		PCS/UPPCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method			
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024			
4. Sampling Location	Borewell-16	10. Sample receipt in lab	03/04/2024			
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024			
6. Lab Code	PCS24/76/417	12. Sample Analyzed By	Ms Alka Singh			
7. Quantity of Sample	2 liter					
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.40	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1165	---	---
3.	Turbidity	NTU	APHA 2130 B	0.27	1	5
4.	TDS	mg/l	APHA 2540 C	690	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	348	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	419	200	600
7.	Chloride as Cl	mg/l	APHA 4500-CLB	72.7	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ E	87.6	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ E	1.92	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	56.6	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	49.7	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	120	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	30.18	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.034	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

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

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of these 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

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Managing Director

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Page 1 of 2

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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, Cleanroom from
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GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

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

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

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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 GSTIN: 09AAJFP9925G1ZV



Test Report for Borewell Water Quality

ULR- TC82412400000632

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/17/2024		PCS/IFFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry	Fertilizer	8. Method of Sampling	As per Standard Method			
3. Sample Collected by	Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024			
4. Sampling Location	Borewell-17	10. Sample receipt in lab	03/04/2024			
5. Weather Condition	Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024			
6. Lab Code	PCS24/70/418	12. Sample Analyzed By	Ms Alka Singh			
7. Quantity of Sample	2 liter					
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 450011- H	7.45	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	1731	---	---
3.	Turbidity	NTU	APHA 2130-B	0.29	1	5
4.	TDS	mg/l	APHA 2540-C	1020	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340-C	432	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320-B	405	200	600
7.	Chloride as Cl	mg/l	APHA 4500-CLB	208.7	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ E	136	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ E	3.69	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca,B	69.1	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg,B	64.8	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na,B	189	-	-
13.	Potassium as K	mg/l	APHA 3500-K,B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	30.27	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe,B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb,B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.047	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn,B	<0.02	0.1	0.3

*As per APHA/AWWA, 23rd Ed. (2012) ** NR- No relaxation.

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

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5. No decision except the Standard Method.

Authorized Signatory

(Dr. Divya Misra)
Managing Director

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Page 1 of 2

Services Available:

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 Environmental and Safety Audit reports, Commissioning, Operation, Operation and Maintenance of STP, ETP, Chlorination from
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 Tel: 0522-4002545, Mobile: 09415518818,
 GSTIN :- 09AAJFP5925G1ZY

Test Report for Borewell Water Quality

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

*As per APHA/AWWA, 22nd Ed (2012) ** NR= No relaxation.
 Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those permitted under 'acceptable' render the water not suitable, but still may be utilized 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

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 Managing Director

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GSTIN - 09AAJFP5925G1ZV

Test Report for Borewell Water Quality



ULR- TC82412400000633

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

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

Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	pH	-	APHA 4500H+ B	7.55	6.5 - 8.5	NR**
2.	Conductivity	µmhos/cm	APHA 2510-B	870	---	---
3.	Turbidity	NTU	APHA 2130 B	0.36	1	5
4.	TDS	mg/l	APHA 2540 C	510	500	2000
5.	Hardness as CaCO ₃	mg/l	APHA 2340 C	286	200	600
6.	Alkalinity as CaCO ₃	mg/l	APHA 2320 B	367	200	600
7.	Chloride as Cl	mg/l	APHA 4500-Cl, B	19.14	250	1000
8.	Sulphate as SO ₄	mg/l	APHA 4500-SO ₄ , E	57.20	200	400
9.	Nitrate as NO ₃	mg/l	APHA 4500-NO ₃ , E	2.05	45	NR**
10.	Calcium as Ca	mg/l	APHA 3500-Ca, B	53.9	75	200
11.	Magnesium as Mg	mg/l	APHA 3500-Mg, B	37.8	30	100
12.	Sodium as Na	mg/l	APHA 3500-Na, B	79.0	-	-
13.	Potassium as K	mg/l	APHA 3500-K, B	<10.0	-	-
14.	Copper as Cu	mg/l	APHA 3111-Cu, B	<0.05	0.05	1.5
15.	Dissolved Silica(SiO ₂)	mg/l	APHA 4500-Si-C	28.16	-	-
16.	Chromium as Cr	mg/l	APHA 3111-Cr, B	<0.05	0.05	NR**
17.	Iron as Fe	mg/l	APHA 3111-Fe, B	<0.3	0.3	NR**
18.	Nickel as Ni	mg/l	APHA 3111-Ni, B	<0.02	0.02	NR**
19.	Lead as Pb	mg/l	APHA 3111-Pb, B	<0.01	0.01	NR**
20.	Zinc as Zn	mg/l	APHA 3111-Zn, D	0.031	5	15
21.	Manganese as Mn	mg/l	APHA 3111-Mn, B	<0.02	0.1	0.5

*As per APHA/WWA 23rd Ed (2012) **NR= No reaction.

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

Note:

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

Authorized Signatory

(Dr. Divya Mitra)
Managing Director

"End of this Test Report"

Page 1 of 2

Services Available

Environmental Monitoring, Preparation of EIA/MP, Baseline data generation for Air, Water, Soil, Noise & Meteorology
Environmental and Safety Audit reports, Commissioning, Training, Operation and Maintenance of CTP/STP, Chlorination Plant
Ground Water Audit, Compliance of J.C., NCR, SMC / PPCR, MoEF



Prakriti Consultants Services

An Approved Laboratory From MoEF - CC & Uttar Pradesh Pollution Control Board
 (An ISO 14001:2015, ISO 9001:2015 and ISO 45001:2018 Certified Organization)
 Address: 12, Vishwapuri, Church Road, Aliganj, Lucknow-226024
 E-mail: prakriti_md@rediffmail.com
 Tel: 0522- 4002545, Mobile: 09415518818,
 GSTIN :- 09AAJFP5925G12Y

Test Report for Borewell Water Quality

Report No.		Lab Reference No.		Issue Date		
PCS/BWQ/18(a)/2024		PCS/FFCO/01/2024		19/04/2024		
1. Name & Address of Industry		M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.				
2. Type of Industry		Fertilizer	8. Method of Sampling	As per Standard Method		
3. Sample Collected by		Mr Vipin & Mr Sunil	9. Date of sampling	02/04/2024		
4. Sampling Location		Borewell-18	10. Sample receipt in lab	03/04/2024		
5. Weather Condition		Clear Sky	11. Date of Analysis	03/04/2024 - 06/04/2024		
6. Lab Code		PCS24/70/419	12. Sample Analyzed By	Ms Alka Singh		
7. Quantity of Sample		2 liter				
Sl. No.	Parameters	Unit	Reference Method*	Result	BIS Standard IS 10500: 2012	
					Requirement (Acceptable limit)	Permissible limit in the absence of alternate source
1.	Vanadium as V	mg/l	APHA 3111-V-B	<0.02	-	-

*As per APHA/AWWA, 22nd Ed. (2012) **ND= 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 where which the sources will have to be rejected.

Note:

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- The report shall not be used for any other purpose than declared by the Sponsor.
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- No deviation as per the Standard Method.

Authorized Signatory

(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 & Microbiology
 Environmental and Safety Audit reports, Commissioning, Execution, Operation and Maintenance of STP/TP, Clearance from
 Ground Water Board, Compliance of E.C., SOC from UPPCR, MoEF

Observations of Mock Drill Conducted at Ammonia Storage Tank Area on 27/12/2023

Date: 27/12/2023

A Mock Drill was conducted on 27-12-2023 at 15:00 hrs. in Ammonia Storage Tank No. 2103F. After the drill, a Review Meeting was held in the Auditorium New H-Block to discuss the activities carried out during the Mock Drill, our responses and preparedness during such On-Site emergency, improvements required based on the feedback from various observers.

On this occasion Shri Ramai Ram F.O. Saraon Prayagraj, with Sr. Executive Director Phulpur Unit, JGM, DGM and other senior officers of IFFCO Phulpur, were present in the meeting. The Main Incident Controller Sr.E.D. had presided the review meeting.

1. The observer of security at the Factory Main Gate appreciated the quick & proper movement of vehicles such as those of Sr. E.D., GMS, JGMS, DGMS and the ambulance from the township.
2. The turnout of fire tenders, Ambulances, Rescue vans & other emergency vehicles were very quick, proper & well defined, considering the wind direction. As per the (F & S) Control room observer & site observer, mobilization of all key personals & essential agencies was excellent.
3. Sr.E.D. took charge as Main Emergency Controller and reached at the Emergency Control Centre promptly on receiving the information from the site Incident Controller about the emergency.
4. The emergency siren with high & low pitch was immediately sounded as soon as F&S shift in charge received the call from Main Incident Controller to declare On-site emergency.
5. Doctors attended the victimized persons at occupational health center as well as main hospital.
6. All clear siren with same & continuous pitch sounded to communicate all clear as soon as F&S shift in charge received the call from the Main Incident Controller.

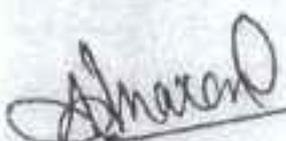
The observations and suggestions along with action taken report is given as under:

Sl. No	Observations	ATR
1.	Fire Officer Saraon: Shri Ramai Ram appreciated the response time shall be fixed soon and preparedness of fire crew & functioning of equipment.	
2.	D.K. Singh (Observer Fire & Safety Control Room): Mukesh Sharma (Observer Incident Site): Samasuddoha (Emergency Control Center): All three observer reported taken by fire & Safety staff in its crew, Maintenance team at Emergency site and senior officials at ECC with reported time observation,	

3.	Achal Johari (Site incident Controller): Got preliminary information from area operator and arranged gas tight suit, and informed Mechanical team for further assistance for tank isolation.	
4.	Shambhu Shekhar (DGM - P&A) He appreciated the drill. He told that, he had informed Local Police, ADM and District Administration about the Emergency. He also mobilised the Transportation Department to arrange buses at assembly points. Head count was reported during the meeting.	
5.	Anita Mishra (JGM - M&HS) She gave details about the condition of the casualty reported. She told that on hearing the Emergency Siren she proceed immediately to Emergency Control Room and asked one doctor to reached at plant dispensary immediately and other to stay in Hospital to handle the casualty if any.	
6.	Akhillesh Nigam (Manager - Fire & Safety) He leaded and managed activity at site as per the guidance of CM (Fire & Safety).	
7.	Dinesh Singh - CSO He said that as soon as we heard the emergency siren, our security personnel immediately came into action as per the emergency plan, closed the inner gate, and opened the outer gate. He appreciated the efforts put in by his security staff and also appreciated the Fire and Safety team for the training given to the security staff.	
8.	P.K. Verma (DGM - Urea) He appreciated the Fire & Safety team for the excellent performance of the staff in handling the Emergency.	
9.	Sanjay Bhandari (JGM - Production) He appreciated the drill and reassured the all suggestion will be implemented. He suggested for better participation by the ERG members.	
10.	Ratnesh Kumar (JGM - Process) He appreciated the systematic approach and advised to consider worst case scenario for further drill.	

11.	Umesh Shukla (Sr. Manager - EPC) He appreciated the drill handled Environment speculation and informed that he arranged for Air/Water sampling and was looking after the Environment analysis facility.	
12.	M. D. Mishra (GM - Utility) He appreciated the efforts by involved department and advised to review the communication facility.	
13.	Sanjay Vaish (GM - Technical) He appreciated the collective efforts by all the departments.	
14.	Sanjay Kudesia (Sr. E.D. Phulpur) He appreciated the efforts of everyone involved in the Mock Drill & said that it was conducted successfully. He said that our unit comes under a Major Accident Hazard (MAH) unit category and it is the responsibility of all of us to maintain utmost safety at all times. We have a fully trained staff and have all safety appliances, monitoring and control systems & are fully equipped to deal with any kind of emergency situations such as fire or toxic gas leakage, Standard Operating Procedure (SOP's) for normal as well as emergency operation are available for all our process plants. The purpose of Mock Drill is to check the efficiency of the response time and our preparedness. He suggested to review the walkie-talkie facilities and also instructed to arrange separate siren for NFP & Cordet and advised to consider a bigger scenario for further rehearsal.	

Date: 02/01/2023


(Sanjiv Kumar)
Chief Manager (Fire & Safety)
Sanjiv Kumar Saxena
Chief Manager (F&S)
IFFCO Phulpur Unit
Prayagraj, U.P.-212404

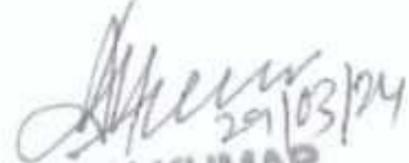


Budget for Environmental Management Plan

Over a time, IFFCO has spent cost on environment management plan for compliance of standards, norms laid down by Govt and environmental sustainability. Budget planned for Environment Management Plan for the proposed Nano Fertilizer plant has been provided below in Table.

Budget for Environmental Management Plan

Sr. No	Particulars	Proposed Capital Cost (In Rs lakhs)	Actual Capital Cost Incurred (In Rs lakhs)	Planned Schemes	Recurring Cost/year (In Rs lakhs)	Recurring Cost (In Rs lakhs)
1.	Air pollution control schemes	-	-	-	-	-
2.	Water pollution control schemes	50	126.7	-	2	5.0
3.	Solid Waste Management	52	49.4	-	5	6.0
4.	Occupational Health	7	16.6	-	1	2.0
5.	Rainwater Harvesting	160	105.0	57.0	2	2.0
6.	Greenbelt development	40	75.3	1.2	7	8.0
	Total	309			17	23


 29/03/24
ARUN KUMAR
 JGM (Nano)
 NFP Phulpur
 IFFCO Phulpur UNIT

WORK ORDER

Order No.: 5600 / 2230042300013
Order Date: 02-MAY-2022



292874 INDUSTRIAL CONBUILD COMPANY PRIVATE LIMITED A 115, 101,102, VAKIL CHAMBERS VIKAS MARG SHAKARPUR, EAST DELHI DELHI - 110092 DELHI India	
Telephone:	9811292008
Fax:	
E-mail:	pksharmaicc@yahoo.com
Contact:	
Mobile:	9811418731
E-mail:	pksharmaicc@yahoo.com

	Supplier	IFFCO
Quot Ref		
Date		
GST No.	07AACC13406P1Z F	09AAAA10050M 32R
PAN No.	AACC13406P	AAAA10050M
ECC No.		AAAA10050MXXM 001
TAN No.		ALD/00176B
Co. Type		Cooperative
Place of Dispatch	DELHI	

Please arrange to supply the following subject to the conditions mentioned herein and General Terms enclosed:

Order Value 1,64,47,772.14	Forms Applicable
-------------------------------	------------------

Brief Order Description: Fabrication, Erection, Commissioning and Testing of Fire Protection & Utility Piping including Outside Battery Limit (OSBL) Piping and Sewage Treatment Plant (STP) Package for Nano Fertilizer Project at Phulpur Unit.

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt Tolerance%	Rate (INR)	Amount (INR)	GBPA/CPA NO
1	998731 Fabrication, Erection, Commissioning and Testing of Fire Protection & Utility Piping including Outside Battery Limit (OSBL) Piping and Sewage Treatment Plant (STP) Package for Nano Fertilizer Project at Phulpur Unit as per attached BOQ List	LUMPSU M	1.00	0	16740735	1,67,40,735.00	
DISCOUNT-1.75%-2230 Item Value						-2,92,962.86 1,64,47,772.14	

Rupees one crore sixty four lakh forty seven thousand seven hundred seventy two and paise fourteen only	Total	1,64,47,772.14
---	-------	----------------

Price Basis	FOR Nano Fertilizer Project Site at Phulpur Unit
Discount	APPLICABLE @1.75%
Packaging & Forwarding	INCLUSIVE
Insurance	Insurance to be arranged and borne by you for your men & resources.
GST	GST shall be paid extra as applicable. Present rate is 18%. Tax provision related TDS/TCG shall be complied as applicable.
Payment	For Service i) 10% advance payment against submission of ABG of equal amount ii) 80% against installation on pro- rata basis against monthly running bills duly certified by IFFCO's Engineer iii) 10% after successful completion of the job. All the above payments for services shall be made within 24 days after submission of invoice duly certified by IFFCO's representative
Completion Period	The completion period for both the orders, (supply including services), shall be 120 days and handing over of the project shall be within 150 days from the date of issuance of LOI as per Major Milestones to be achieved in the Project. The holdup period on account of IFFCO not providing work front or suspending work at any time during execution shall be excluded from the completion period.
NOTE	i) Performance Bank Guarantee You shall submit Performance Bond by way of Bank Guarantee @ 5% of the Contract Value valid up to Contractual Completion period plus warranty period of Twenty-Four months plus Six months claim period. The PBG shall be submitted at the time of raising first invoice ii) Refer to our LOI No. LOI/Phulpur/CCPL/Service dated 24.02.2022 and all our correspondences. iii) Refer to order no. 5600/2230042300012 for supply part. iv) All other terms and conditions as per attached annexures.

इंडियन फार्मर्स फर्टिलाइजर कोआपरेटिव लिमिटेड
INDIAN FARMERS FERTILISER COOPERATIVE LIMITED
NANO FERTILIZER PROJECT, PHULPUR



PURCHASE ORDER

Order No.: 5600 / 2230042300053
Order Date: 01-JUL-2022

282996 KSB LIMITED 104TH MILE STONE, MUMBAI - PUNE ROAD, PIMPRI, PUNE PUNE - 411018 MAHARASHTRA India	
Telephone:	
Fax:	
Contact:	NAVNEETPANDEY
Mobile:	9891341920
E-mail1:	navneet.pandey@ksb.com
E-mail2:	niranjan.rout@ksb.com

Cost Center	5600 - NANO FERTILISER PROJECT
Requisition No	223001220034
RFO No.	
ERP Quotation No.	
Approval Status	APPROVED
Closure Status	OPEN
Budget Code	2230.11.1010.6220101.11.0.000

	Supplier	IFFCO
Quot Ref		
Date		
GST No.	27AAACK5918J1Z C	09AAAAI0050M 32R
PAN No.	AAACK5918J	AAAAI0050M
ECC No.		AAAAI0050MXM 001
TAN No.		ALDI00175B
Co. Type		Cooperative
Place of Dispatch :MAHARASHTRA		

Please arrange to supply the following subject to the conditions mentioned herein and General Terms enclosed:

Order Value 1,26,59,982.57	Forms Applicable
--------------------------------------	-------------------------

Brief Order Description: Supply of complete Centrifugal Pump with its Motor, Base frame along with accessories and spare for Nano Fertiliser Project for IFFCO, Phulpur Unit.

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt Tolerance%	Rate (INR)	Amount (INR)	GBPA/CPA NO
1	84137091 Complete Pump Tag no. PR-102 A/B.	NUMBER	2.00	0	117502.89	2,35,005.78	
2	84137091 Complete Pump Tag no. PR-103 A/B.	NUMBER	2.00	0	127455.09	2,54,910.18	
3	84137091 Complete Pump Tag no. PR-104 A/B.	NUMBER	2.00	0	117502.89	2,35,005.78	
4	84137091 Complete Pump Tag no. PR-105 A/B.	NUMBER	2.00	0	127455.09	2,54,910.18	
5	84137091 Complete Pump Tag no. PR-106 A/B/C/D/E/F/G/H.	NUMBER	8.00	0	184489.15	14,75,913.20	
6	84137091 Complete Pump Tag no. PT-103 A/B.	NUMBER	2.00	0	127455.09	2,54,910.18	
7	84137091 Complete Pump Tag no. PT-104 A.	NUMBER	1.00	0	1204918.4 8	12,04,918.48	
8	84137091 Complete Pump Tag no. PT-104 B/C.	NUMBER	2.00	0	1291092.3 1	25,82,184.62	

PURCHASE ORDER

Order No.: 5600 / 2230042300053
Order Date: 01-JUL-2022

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt	Rate (INR)	Amount (INR)	GBPA/CPA NO
9	84137091 Complete Pump Tag no. PT-105 A/B.	NUMBER	2.00	0	117502.89	2,35,005.78	
10	84137091 Complete Pump Tag no. PT-107 A/B/C.	NUMBER	3.00	0	221525.69	6,64,577.07	
11	84137091 Complete Pump Tag no. PT-108 A/B.	NUMBER	2.00	0	137377.22	2,74,754.44	
12	84137091 Complete Pump Tag no. P-X-107 A/B.	NUMBER	2.00	0	137377.22	2,74,754.44	
13	84137091 Complete Pump Tag no. P-X-108 A/B.	NUMBER	2.00	0	137377.22	2,74,754.44	
14	84831099 2230569130000100 SPARES FOR PUMP TAG NO. PR-102 A/B, 104 A/B, PT-105A/B--- PUMP & MOTOR SPARES, PUMP SHAFT	NUMBER	2.00	0	16307	32,614.00	
15	84139120 2230569130000110 SPARES FOR PUMP TAG NO. PR-102 A/B, 104 A/B, PT-105A/B--- PUMP & MOTOR SPARES, IMPELLER	NUMBER	1.00	0	5561	5,561.00	
16	84139120 2230569130000120 SPARES FOR PUMP TAG NO. PR-102 A/B, 104 A/B, PT-105A/B--- PUMP & MOTOR SPARES, IMPELLER LOCK NUT	NUMBER	2.00	0	812	1,624.00	
17	84139120 2230569130000130 SPARES FOR PUMP TAG NO. PR-102 A/B, 104 A/B, PT-105A/B--- PUMP & MOTOR SPARES, COMPLETE MECHANICAL SEAL ASSY.	NUMBER	4.00	0	2414	9,656.00	
18	84139120 2230569130000140 SPARES FOR PUMP TAG NO. PR-102 A/B, 104 A/B, PT-105A/B--- PUMP & MOTOR SPARES, CASING GASKET.	NUMBER	6.00	0	627	3,762.00	
19	84139120 2230569130000150	NUMBER	6.00	0	145	870.00	

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INDIAN FARMERS FERTILISER COOPERATIVE LIMITED
NANO FERTILIZER PROJECT, PHULPUR



PURCHASE ORDER

Order No.: 5600 / 2230042300053

Order Date: 01-JUL-2022

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt	Rate (INR)	Amount (INR)	GBPA/CPA NO
	SPARES FOR PUMP TAG NO. PR-102 A/B, 104 A/B, PT-105A/B--- PUMP & MOTOR SPARES, OIL SEAL FOR PUMP.						
20	84139120 2230569130000160 SPARES FOR PUMP TAG NO. PR-102 A/B, 104 A/B, PT-105A/B--- PUMP & MOTOR SPARES, COUPLING ELEMENT.	NUMBER	2.00	0	14482	28,964.00	
21	84139120 2230569130000170 SPARES FOR PUMP TAG NO. PR-102 A/B, 104 A/B, PT-105A/B--- PUMP & MOTOR SPARES, COMPLETE PUMP BACK PULL OUT ASSEMBLY	NUMBER	2.00	0	27984	55,968.00	
22	84139120 2230569130000180 SPARES FOR PUMP TAG NO. PR-102 A/B, 104 A/B, PT-105A/B--- PUMP & MOTOR SPARES, 1 SET OF BEARING (DE & NDE)	NUMBER	1.00	0	1509	1,509.00	
23	84139120 2230569130000190 SPARES FOR PUMP TAG NO. PR-102 A/B, 104 A/B, PT-105A/B--- PUMP & MOTOR SPARES, BEARING NDE SIDE	NUMBER	1.00	0	1014	1,014.00	
24	84139120 2230569130000200 SPARES FOR PUMP TAG NO. PR-102 A/B, 104 A/B, PT-105A/B--- PUMP & MOTOR SPARES, 1 NO. COOLING FAN	NUMBER	2.00	0	130	260.00	
25	84139120 2230569130000210 SPARES FOR PUMP TAG NO. PR-102 A/B, 104 A/B, PT-105A/B--- PUMP & MOTOR SPARES, 1 NO. OF TERMINAL BOX WITH TERMINAL PLATES	NUMBER	2.00	0	953	1,906.00	
26	84139120 2230569130000220 SPARES FOR PUMP TAG NO. PR-102 A/B, 104 A/B, PT-105A/B--- PUMP & MOTOR SPARES, 1 SET OF TERMINAL PLATE COMPLETE WITH STUD & SHORTING LINKS	NUMBER	2.00	0	217	434.00	
27	84139120 2230569130000230 SPARES FOR PUMP TAG NO. PR-102 A/B, 104 A/B, PT-105A/B--- PUMP & MOTOR SPARES, 1 NO. OF COMPLETE LT MOTOR AS SPARE	NUMBER	2.00	0	27963	55,926.00	

PURCHASE ORDER

Order No.: 5600 / 2230042300053

Order Date: 01-JUL-2022

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt Tolerance%	Rate (INR)	Amount (INR)	GBPA/CPA NO
28	84831099 2230569130100100 SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR, PUMP SHAFT	NUMBER	2.00	0	16307	32,614.00	
29	84139120 2230569130100110 SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR, IMPELLER	NUMBER	1.00	0	9107	9,107.00	
30	84139120 2230569130100120 SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR, IMPELLER LOCK NUT	NUMBER	4.00	0	812	3,248.00	
31	84139120 2230569130100130 SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR, COMPLETE MECHANICAL SEAL ASSY.	NUMBER	4.00	0	2414	9,656.00	
32	84139120 2230569130100140 SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR, CASING GASKET.	NUMBER	8.00	0	627	5,016.00	
33	84139120 2230569130100150 SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR, OIL SEAL FOR PUMP.	NUMBER	8.00	0	145	1,180.00	
34	84139120 2230569130100160 SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR, COUPLING ELEMENT.	NUMBER	2.00	0	14482	28,964.00	
35	84139120 2230569130100170 SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR, COMPLETE PUMP BACK PULL OUT ASSEMBLY	NUMBER	2.00	0	30555	61,110.00	
36	84139120 2230569130100180 SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR, 1 SET OF BEARING (DE)	NUMBER	1.00	0	1509	1,509.00	

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INDIAN FARMERS FERTILISER COOPERATIVE LIMITED
NANO FERTILIZER PROJECT, PHULPUR



PURCHASE ORDER

Order No.: 5600 / 2230042300053
Order Date: 01-JUL-2022

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt	Rate (INR)	Amount (INR)	GBPA/CPA NO
				Tolerance%			
37	84139120 2230569130100190 SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR. BEARING NDE SIDE	NUMBER	1.00	0	1207	1,207.00	
38	84139120 2230569130100200 SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR . 1 NO. COOLING FAN	NUMBER	2.00	0	420	840.00	
39	84139120 2230569130100210 SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR . 1 SET OF GREASE NIPPLE, PLUG & GREASE COLLECTOR (FOR 112 M AND ABOVE FRAME SIZE MOTOR)	NUMBER	2.00	0	2365	4,730.00	
40	84139120 2230569130100220 P SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR. 1 SET OF INNER & OUTER BEARING COVER FOR DE & NDE	NUMBER	2.00	0	924	1,848.00	
41	84139120 2230569130100230 SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR. 1 NO. OF TERMINAL BOX WITH TERMINAL PLATES	NUMBER	2.00	0	3162	6,324.00	
42	84139120 2230569130100240 SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR, 1 SET OF TERMINAL PLATE COMPLETE WITH STUD & SHORTING LINKS	NUMBER	2.00	0	471	942.00	
43	84139120 2230569130100250 SPARES FOR PUMP TAG NO. PR-106 A/B/C/D/E/F/G/H -- PUMP & MOTOR. 1 NO. OF COMPLETE LT MOTOR AS SPARE	NUMBER	2.00	0	78755	1,57,510.00	
44	84831099 2230569130200100 SPARE FOR PUMP TAG NO. PT-107 A/B/C, PUMP SHAFT	NUMBER	1.00	0	17308	17,308.00	
45	84139120 2230569130200110 SPARE FOR PUMP TAG NO. PT-107 A/B/C, IMPELLER	NUMBER	1.00	0	10872	10,872.00	

PURCHASE ORDER

Order No.: 5600 / 2230042300053

Order Date: 01-JUL-2022

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt	Rate (INR)	Amount (INR)	GBPA/CPA NO
				Tolerance%			
46	84139120 2230569130200120 SPARE FOR PUMP TAG NO. PT-107 A/B/C, IMPELLER LOCK NUT	NUMBER	3.00	0	993	2,979.00	
47	84139120 2230569130200130 SPARE FOR PUMP TAG NO. PT-107 A/B/C, COMPLETE MECHANICAL SEAL ASSY.	NUMBER	2.00	0	2414	4,828.00	
48	84139120 2230569130200140 SPARE FOR PUMP TAG NO. PT-107 A/B/C, CASING GASKET	NUMBER	4.00	0	941	3,764.00	
49	84139120 2230569130200150 SPARE FOR PUMP TAG NO. PT-107 A/B/C, OIL SEAL FOR PUMP	NUMBER	4.00	0	217	868.00	
50	84139120 2230569130200160 SPARE FOR PUMP TAG NO. PT-107 A/B/C, COUPLING ELEMENT	NUMBER	1.00	0	14482	14,482.00	
51	84139120 2230569130200170 SPARE FOR PUMP TAG NO. PT-107 A/B/C, COMPLETE PUMP BACK PULL OUT ASSEMBLY	NUMBER	1.00	0	49915	49,915.00	
52	84831099 2230569130300100 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B— PUMP & MOTOR, PUMP SHAFT	NUMBER	3.00	0	16307	48,921.00	
53	84139120 2230569130300110 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B— PUMP & MOTOR, IMPELLER	NUMBER	2.00	0	6948	13,896.00	
54	84139120 2230569130300120 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B— PUMP & MOTOR, IMPELLER LOCK NUT	NUMBER	6.00	0	812	4,872.00	
55	84139120 2230569130300130 SPARE FOR PUMP TAG NO. PR-	NUMBER	6.00	0	2414	14,484.00	

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INDIAN FARMERS FERTILISER COOPERATIVE LIMITED
NANO FERTILIZER PROJECT, PHULPUR



PURCHASE ORDER

Order No.: 5600 / 2230042300053
Order Date: 01-JUL-2022

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt	Rate (INR)	Amount (INR)	GBPA/CPA NO
	(103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B— PUMP & MOTOR, COMPLETE MECHANICAL SEAL ASSY.						
				Tolerance%			
56	84139120 2230569130300140 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B— PUMP & MOTOR, CASING GASKET	NUMBER	12.00	0	627	7,524.00	
57	84139120 2230569130300150 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B— PUMP & MOTOR, OIL SEAL FOR PUMP	NUMBER	8.00	0	145	1,160.00	
58	84139120 2230569130300160 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B— PUMP & MOTOR, COUPLING ELEMENT	NUMBER	3.00	0	14482	43,446.00	
59	84139120 2230569130300170 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B— PUMP & MOTOR, COMPLETE PUMP BACK PULL OUT ASSEMBLY	NUMBER	2.00	0	25356	50,712.00	
60	84139120 2230569130300180 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B— PUMP & MOTOR, 1 SET OF BEARING (DE)	NUMBER	1.00	0	1074	1,074.00	
61	84139120 2230569130300190 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B— PUMP & MOTOR, BEARING NDE SIDE	NUMBER	1.00	0	1074	1,074.00	
62	84139120 2230569130300200 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B— PUMP & MOTOR, 1 NO. COOLING FAN	NUMBER	2.00	0	304	608.00	
63	84139120 2230569130300210 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B— PUMP & MOTOR, 1 NO. OF TERMINAL BOX WITH TERMINAL PLATES	NUMBER	2.00	0	953	1,906.00	

PURCHASE ORDER

Order No.: 5600 / 2230042300053

Order Date: 01-JUL-2022

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt Tolerance%	Rate (INR)	Amount (INR)	GBPA/CPA NO
64	84139120 2230569130300220 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B--- PUMP & MOTOR, 1 SET OF TERMINAL PLATE COMPLETE WITH STUD & SHORTING LINKS	NUMBER	2.00	0	217	434.00	
65	84139120 2230569130300230 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B--- PUMP & MOTOR, 1 NO. OF COMPLETE LT MOTOR AS SPARE	NUMBER	2.00	0	37592	75,184.00	
66	84139120 2230569130300240 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B--- PUMP & MOTOR, 1 SET OF BEARING (DE)	NUMBER	1.00	0	1074	1,074.00	
67	84139120 2230569130300250 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B--- PUMP & MOTOR, BEARING NDE SIDE	NUMBER	1.00	0	1074	1,074.00	
68	84139120 2230569130300260 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B--- PUMP & MOTOR, 1 NO. COOLING FAN	NUMBER	2.00	0	304	608.00	
69	84139120 2230569130300270 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B--- PUMP & MOTOR, 1 NO. OF TERMINAL BOX WITH TERMINAL PLATES	NUMBER	2.00	0	953	1,906.00	
70	84139120 2230569130300280 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B--- PUMP & MOTOR, 1 SET OF TERMINAL PLATE COMPLETE WITH STUD & SHORTING LINKS	NUMBER	2.00	0	217	434.00	
71	84139120 2230569130300290 SPARE FOR PUMP TAG NO. PR- (103,105,103,108)A/B,P-X-107 A/B, P-X-108 A/B--- PUMP & MOTOR, 1 NO. OF COMPLETE LT MOTOR AS SPARE	NUMBER	2.00	0	47522	95,044.00	

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INDIAN FARMERS FERTILISER COOPERATIVE LIMITED
NANO FERTILIZER PROJECT, PHULPUR



PURCHASE ORDER

Order No.: 5600 / 2230042300053

Order Date: 01-JUL-2022

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt	Rate (INR)	Amount (INR)	GBPA/CPA NO
				Tolerance%			
72	84831099 2230569130400100 SPARE FOR PUMP TAG NO. PT-104A, PUMP SHAFT	NUMBER	1.00	0	17307	17,307.00	
73	84139120 2230569130400110 SPARE FOR PUMP TAG NO. PT-104A, IMPELLER LOCK NUT	NUMBER	2.00	0	993	1,986.00	
74	84139120 2230569130400120 SPARE FOR PUMP TAG NO. PT-104A, COMPLETE MECHANICAL SEAL ASSY.	NUMBER	1.00	0	2414	2,414.00	
75	84139120 2230569130400130 SPARE FOR PUMP TAG NO. PT-104A, CASING GASKET	NUMBER	4.00	0	941	3,764.00	
76	84139120 2230569130400140 SPARE FOR PUMP TAG NO. PT-104A, OIL SEAL FOR PUMP	NUMBER	2.00	0	217	434.00	
77	84139120 2230569130400150 SPARE FOR PUMP TAG NO. PT-104A, COUPLING ELEMENT	NUMBER	1.00	0	14482	14,482.00	
78	84139120 2230569130400180 SPARE FOR PUMP TAG NO. PT-104A, COMPLETE PUMP BACK PULL OUT ASSEMBLY	NUMBER	1.00	0	25356	25,356.00	
79	84139120 2230569130400170 SPARE FOR PUMP TAG NO. PT-104A, BARE ARC/NRV VALVE	NUMBER	1.00	0	1086764	10,86,764.00	
80	84139120 2230569130400180 SPARE FOR PUMP TAG NO. PT-104A, GASKET SET CPL	NUMBER	1.00	0	25605	25,605.00	
81	84139120 2230569130400190 SPARE FOR PUMP SPARES FOR TAG NO. PT-104A ACCUMULATOR BYPASS INSERT CPL	NUMBER	1.00	0	473874	4,73,874.00	

PURCHASE ORDER

Order No.: 5600 / 2230042300053
Order Date: 01-JUL-2022

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt	Rate (INR)	Amount (INR)	GBPA/CPA NO
				Tolerance%			
82	84831099 2230569130500100 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, PUMP SHAFT	NUMBER	1.00	0	17307	17,307.00	
83	84139120 2230569130500110 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, IMPELLER	NUMBER	1.00	0	10356	10,356.00	
84	84139120 2230569130500120 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, IMPELLER LOCK NUT	NUMBER	2.00	0	993	1,986.00	
85	84139120 2230569130500130 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, COMPLETE MECHANICAL SEAL ASSY.	NUMBER	1.00	0	2414	2,414.00	
86	84139120 2230569130500140 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, CASING GASKET	NUMBER	4.00	0	941	3,764.00	
87	84139120 2230569130500150 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, OIL SEAL FOR PUMP	NUMBER	2.00	0	217	434.00	
88	84139120 2230569130500160 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, COUPLING ELEMENT	NUMBER	1.00	0	14482	14,482.00	
89	84139120 2230569130500170 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, COMPLETE PUMP BACK PULL OUT ASSEMBLY	NUMBER	1.00	0	47576	47,576.00	
90	84139120 2230569130500180 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, BARE ARC/NRV VALVE	NUMBER	1.00	0	1086764	10,86,764.00	
91	84139120 2230569130500190 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, GASKET SET CPL	NUMBER	1.00	0	25605	25,605.00	

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INDIAN FARMERS FERTILISER COOPERATIVE LIMITED
NANO FERTILIZER PROJECT, PHULPUR



PURCHASE ORDER

Order No.: 5600 / 2230042300053
Order Date: 01-JUL-2022

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt Tolerance%	Rate (INR)	Amount (INR)	GBPA/CPA NO
92	84139120 2230569130500200 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, BYPASS INSERT CPL	NUMBER	1.00	0	473874	4,73,874.00	
93	84139120 2230569130500210 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, 1 SET OF BEARING (DE.)	NUMBER	1.00	0	1509	1,509.00	
94	84139120 2230569130500220 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, BEARING NDE SIDE	NUMBER	1.00	0	1207	1,207.00	
95	84139120 2230569130500230 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, 1 NO. COOLING FAN	NUMBER	1.00	0	420	420.00	
96	84139120 2230569130500240 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, 1 SET OF GREASE NIPPLE, PLUG & GREASE COLLECTOR (FOR 112 M AND ABOVE FRAME SIZE MOTOR)	NUMBER	1.00	0	2365	2,365.00	
97	84139120 2230569130500250 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, 1 SET OF INNER & OUTER BEARING COVER FOR DE & NDE	NUMBER	1.00	0	924	924.00	
98	84139120 2230569130500260 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, 1 NO. OF TERMINAL BOX WITH TERMINAL PLATES	NUMBER	1.00	0	3162	3,162.00	
99	84139120 2230569130500270 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, 1 SET OF TERMINAL PLATE COMPLETE WITH STUD & SHORTING LINKS	NUMBER	1.00	0	471	471.00	
100	84139120 2230569130500280 SPARES FOR PUMP TAG NO. PT-104 B/C --- PUMP & MOTOR, 1 NO. OF COMPLETE LT MOTOR AS SPARE	NUMBER	1.00	0	95468	95,468.00	

Rupees one crore twenty six lakh fifty nine thousand nine hundred eighty two and paise fifty seven Total 1,26,59,982.57

PURCHASE ORDER

Order No.: 5600 / 2230042300053

Order Date: 01-JUL-2022

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt Tolerance%	Rate (INR)	Amount (INR)	GBPA/CPA NO
only							

Price Basis	FOR FOR Phulpur NFP site basis. The rates shall remain firm till the execution of the order.
Discount	Rates are inclusive of Discount @3% for pump sets (Item No. 1 to 13 only)
Packaging & Forwarding	INCLUSIVE
Insurance	The transit insurance shall be arranged & borne by IFFCO, under Marine Insurance Policy No. 22A41423. Period of Policy : 04.02.2022 to 03.02.2023.
Freight	Transportation shall be arranged & borne by M/s KSB Limited and the same shall be reimbursed by IFFCO at actuals against documentary evidence, subject to maximum 3% of basic order value (Pumps including) Spares.
GST	GST shall be paid extra as applicable. Present rate is 18%. GST shall be paid after filing the GSTR-1 by supplier and after its verification in GSTR 2A. TDS / TCS shall be applicable as per income tax rule.
Payment	Supply Part I) 85% payment will be released on pro-rata basis for each consignment within 30 days of receipt & acceptance of material at site. II) Balance 15% on acceptance of plant duly commissioned and certified by the owner / consultant within 30 days of such certification or within 60 days from the date of dispatch subject to receipt at site, whichever is earlier.
Inspection	Pump set shall undergo inspection as per final agreed Quality Assessment Procedure (QAP) and the same shall be witnessed by TPI Agency (M/s BV/TUV/LRIS). Third party inspection charges shall be paid extra @ 3% of basic cost of pumps (Item No 1 to 13).
NOTE	I) DELIVERY PERIOD FOR SUPPLY The delivery period Phulpur site shall be 24 weeks (Ex-works) except for ARC/NRV for PT-104A and PT-104 B/C for which the delivery period shall be 26 weeks (Ex-works). II) PERFORMANCE BANK GUARANTEE (PBG) You shall submit PBG @ 5% of order value on supply part, after receipt of LOI / PO, which shall be valid for a period covering delivery plus warranty period plus 6 months claim period. PBG will be submitted at the time of raising first invoice. III) Refer to our LOI No. LOI/Phulpur/2240022/10002/KSB dated 24.02.2022 and all our correspondences as part of the order. IV) Refer to our order No. 5600/2230042300054 for supervision services. V) All other terms and conditions as per attached annexures.
Our Bankers	ICB Phulpur Branch Ghyanagar, Allahabad-212404 UP
Consignee	GM (Maint.), Project Co-ordinator, IFFCO Phulpur NFP Site
Warranty	Guarantee / Warranty period shall be 18 months from the date of commissioning or 24 months from the date of dispatch (Ex-works KSB), whichever is earlier.
Price Reduction	A sum equivalent to 0.5% of the contract price for every complete week or part thereof, for delay in delivery or completion by the supplier, subject to a maximum 5% of total contract price inclusive of escalation and contingencies, if any.
NOTE (GST)	The Supplier/Contractor shall mention item wise HSN Code or SAC for Supply of Goods/Services, whichever applicable, respectively on the Tax Invoice(s), that has to be GST compliant. Your PAN No. must also be mentioned on your tax invoice
Your Bankers:	Bank Name: DEUSTCHE BANK, Branch Name: MUMBAI, A/C No: 0000513000 IFSC: DEUT0784BBY

Please ensure timely supply. Part supply against purchase order shall not be accepted without prior approval.

You are requested to provide your GSTIN and PAN NO in all invoices. In absence of GSTIN and PAN, it will not be possible for us to release the Payment.

<p>Note: Non-compliance of instructions attached may lead to rejection. Two copies of PO must be returned duly signed and sealed as token of your acceptance within 10 days of receipt of order.</p>	<p>for INDIAN FARMERS FERTILISER CO-OPERATIVE LTD</p> <p style="text-align: right;">Authorized Signatory - Commercial</p>
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WORK ORDER

Order No.: 6560 / 2020042201168
Order Date: 06-APR-2022

214075 LUCKY AGENCIES NEAR BUS STAND PHULPUR ALLAHABAD - 212402 UTTAR PRADESH India	
Telephone:	9554951738 /
E-mail:	luckyagencies_phi@rediffmail.com
Contact:	MOHD. KHALID
Mobile:	9415633569
E-mail:	luckyagencies_phi@rediffmail.com

	Supplier	IFFCO
Quot Ref	2020022200801	2020022200801
Date	06-MAR-2022	21-FEB-2022
GST No.	09AJLPK1272C1Z D	09AAAAI0050M 3ZR
PAN No.	AJLPK1272C	AAAAI0050M
ECC No.		AAAAI0050MXM 001
TAN No.		ALDI00176B
Co. Type		Cooperative
Place of Dispatch :UTTAR PRADESH		

Please arrange to supply the following subject to the conditions mentioned herein and General Terms enclosed:

Order Value 77,71,000.00	Forms Applicable
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Brief Order Description: **Construction of pond in Cordet area.**

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt Tolerance%	Rate (INR)	Amount (INR)	GBPA/CPA NO
1	995428 1.Dismantling existing Reinforced cement concrete including cutting, transporting and stacking of reinforcement bar (Refer Annex1)	METRE CUBIC	15.00	0	800	12,000.00	
2	995428 2.Dismantling existing brick work / PCC / boulder soling (Refer Annex1)	METRE CUBIC	50.00	0	200	10,000.00	
3	995428 3.Surface dressing of uneven ground for providing an even ground involving dressingcutting earth 1.00M up and down (Refer Annex1)	Metre Square	17,000.00	0	20	3,40,000.00	
4	995428 4 Earthwork in excavation up to 1.5m depth (Refer Annex1)	METRE CUBIC	21,000.00	0	80	16,80,000.00	
5	995428 5.Earthwork in excavation from1.5m to 3.0m depth (Refer Annex1)	METRE CUBIC	10,500.00	0	100	10,50,000.00	
6	995428 6.Making Bund of excavated earth in layers not exceeding 20 cm in depth (refer Annex1)	METRE CUBIC	500.00	0	50	25,000.00	
7	995428 7.Making Slope of required gradient on the surface of the bank of the lake (Refer Annex1)	Metre Square	2,500.00	0	30	75,000.00	

WORK ORDER

Order No.: 6560 / 2020042201168

Order Date: 06-APR-2022

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt Tolerance%	Rate (INR)	Amount (INR)	GBPA/CPA NO
8	995428 8.Provide laying Precast size 300mmx150mmx50mm in 1:1.5:3(1 cement: 1.5 coarse Yamane sand: 3 crushed stone aggregate 12 mm nominal size) over 20MM thick cement sand mortar(1cement:4 coarse sand) on the slope/bank of lake (Refer Annex1)	Metre Square	2,600.00	0	500	13,00,000.00	
9	995428 9.Providing & constructing wall inside the Pond with precast block size 300mmx150mmx50mm as stated above of 1:1.5:3 over with cement sand mortar 1:4 (1cement: 4 coarse sand) on the bank and bottom of lake (Refer Annex1)	METRE CUBIC	280.00	0	6500	18,20,000.00	
10	995428 10.Providing and laying plain cement concrete in 1:3:6 (Refer Annex1)	METRE CUBIC	60.00	0	3500	2,10,000.00	
11	995428 11.Providing RCC work 1:1.5:3 (1 cement: 1.5 coarse Yamane sand: 3 crushed stone aggregate 20 mm nominal size) up to plinth (Refer Annex1)	METRE CUBIC	20.00	0	3500	70,000.00	
12	995428 12.Providing RCC work 1:1.5:3 (1 cement: 1.5 coarse Yamane sand: 3 crushed stone aggregate 20 mm nominal size) above plinth (Refer Annex1)	METRE CUBIC	10.00	0	3600	36,000.00	
13	995428 13.Cutting, bending, hoisting, placing in position and binding with wire (Refer Annex1)	METRIC TONNE	5.00	0	8000	40,000.00	
14	995428 14.Providing Centering / shuttering for RCC work with new waterproof ply up-to plinth level (Refer Annex1)	Metre Square	200.00	0	300	60,000.00	
15	995428 15.Providing Centering / shuttering for RCC work with new waterproof ply above plinth (Refer Annex1)	Metre Square	100.00	0	400	40,000.00	
16	995428	METRE CUBIC	60.00	0	1000	60,000.00	



WORK ORDER

Order No.: 6560 / 2020042201168
Order Date: 06-APR-2022

Sr.	HSN/SAC Item Code / Description	Unit	Quantity	Over Rcpt	Rate (INR)	Amount (INR)	GBPA/CPA NO
	16. Supplying and filling Yamuna medium sand including watering ramming, compacting (Refer Annex1)						
17	995428 17. RCC Paving with concrete 1:2:4 (1 cement: 2 coarse Yamane sand: 4 crushed stone aggregate 20 mm nominal size) up to plinth (Refer Annex1)	METRE CUBIC	5.00	0	3600	18,000.00	
18	995428 18. Providing & laying graded stone aggregate Wet Mix Macadam specification in two or more layers of thickness not exceeding 100mm each (Refer Annex1)	METRIC TONNE	250.00	0	1500	3,75,000.00	
19	995428 19. Providing and laying GSB(Granular sub base) in layers on the bund of pond (Refer Annex1)	METRIC TONNE	300.00	0	1500	4,50,000.00	
20	995428 20. Providing and constructing a platform of size 25Mx25M with 40MM thick cement concrete (1:2:4) over 75MM base of concrete (Refer Annex1)	Metre- Square	1.00	0	0	0.00	
21	995428 21. Providing, fabricating of M.S. structure fabricated from M.S. beams, angles, channels, plates, MS pipes of SAIL / SIMCO Make (Refer Annex1)	METRIC TONNE	1.00	0	100000	1,00,000.00	
Rupees seventy seven lakh seventy one thousand only						Total	77,71,000.00

Price Basis	FOR IFFCO Phulpur Site
Insurance	To be arranged by party for their resources.
GST	GST shall be paid extra as applicable. Present rate is 18%
Despatch	To be arranged by party
Payment	95% payment against the value of actual work done shall be paid thru RTGS/NEFT against submission of monthly running bills submitted by contractor duly certified by competent authority & balance 5% shall be released at the time of settlement of final bill.
Inspection	At site by IFFCO Engineer
Completion Period	Completion period shall be 26 weeks from the date of site handover.
NOTE	All terms & conditions as per enclosed annexures
Our Bankers	IOB Phulpur Branch Ghyanagar, Allahabad-212404 UP
Price Reduction	The pre-estimated mutually agreed damages pursuant thereto shall be payable @ 0.5% per week of delay or part thereof subject to maximum 5% of total order value.

NOTE (GST) The Supplier/Contractor shall mention item wise HSN Code or SAC for Supply of Goods/Services, whichever applicable, respectively on the Tax Invoice(s), that has to be GST compliant. Your PAN No. must also be



WORK ORDER

Order No.: 6560 / 2020042201168
Order Date: 06-APR-2022

mentioned on your tax invoice

Bank Guarantee: The Performance Bank Guarantee issued from any nationalized bank shall be furnished by the vendor for 10% of the total order value in prescribed format valid for contractual period plus six months maintenance period before commencement of work, otherwise it shall be deducted from 1st RA bill as security money.

Your Bankers: Bank Name: BANK OF BARODA, Branch Name: PHULPUR, DIST. ALLAHABAD, UP, A/C No: 07570500001613 IFSC BARB0PHULPU

Please ensure timely supply. Part supply against purchase order shall not be accepted without prior approval.
You are requested to provide your GSTIN and PAN NO in all invoices. In absence of GSTIN and PAN, it will not be possible for us to release the Payment.

<p>Note: Non-compliance of instructions attached may lead to rejection. Two copies of PO must be returned duly signed and sealed as token of your acceptance within 10 days of receipt of order.</p>	<p>for INDIAN FARMERS FERTILISER CO-OPERATIVE LTD</p> <p style="text-align: right;">Authorized Signatory - Commercial</p>
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- 1 Annexure 1 of Pond in cordet.doc
- 2 pond in cordet.pdf

Digitally Signed By
 ARVENDRA KUMAR
 Wed, Apr 6, 2022 11:38:15 IST
 PHULPUR UNIT





: 20 :

MINUTES OF ITEM NO. 13 OF THE THE 577th MEETING OF THE BOARD OF DIRECTORS OF IFFCO HELD ON MARCH 20, 2024 AT NEW DELHI.

Item No.577BM/13: Completion of Nano Fertiliser Project at Phulpur Unit. 20.03.2024

Explaining the proposal, Director (CRS) said that IFFCO established its first Nano Fertiliser Project at Kalol, which was under commercial production since 1st August 2021. The Society had also initiated activities to set up additional manufacturing facilities for production of Nano Fertilisers at Aonla, Phulpur, Kalol (Expansion), Bengaluru, Paradeep, Kandla, Deoghar and Guwahati.

Director (CRS) further said that initially, a budget provision of ₹ 115 Crore was allocated for setting up Nano Fertiliser Project at Phulpur Unit considering production capacity of 1.5 lakh bottles per day of Nano Urea. Later, considering increase in the production capacity from 1.5 lakh to 2.0 lakh bottles per day, and further after inclusion of additional equipment for production of Nano Urea and associated utilities/auxiliaries, the Budget amount was enhanced to ₹ 285 Crore vide Agenda Item No. 544 BM/9.

Director (CRS) further said that the Society had initially engaged M/s. Zeppelin Systems India Pvt. Ltd., Vadodara (ZSI) for Process Consultancy Services and later on, when standard operating procedure was changed then M/s. Sushen Medicamentos Pvt. Ltd., Ahmedabad was also engaged for Process Consultancy Services. M/s. S3M Design Consultants LLP, Ahmedabad was engaged for Consultancy Services related to Civil, Architectural, Structural, Mechanical, Electrical, Plumbing and associated systems for implementation of the Project. The Project consisted of the facilities to be set up for manufacturing of 2 Lakh Bottles per day of Nano Fertilisers, as mentioned on Page No. 170 of the Agenda Note. The Nano Fertiliser Complex at Phulpur Unit has been designed with the concept of green environment with respect to energy, water and other natural resources.

Director (CRS) further said that the implementation of the Project started on 25.09.2020 (Zero Date) with planned completion date of 03.11.2022. The procurement activities for Equipments commenced during October, 2021 and the Construction activities started during May, 2021. During the course of implementation, various challenges were faced viz. worldwide impact of pandemic COVID-19, change in Equipment Design/Drawings and modification in equipment/ piping layouts, movement of Over Dimensional Consignment and Overseas Consignments. Such factors resulted in delay in material supplies and construction. However, the Suppliers / Contractors / Consultants extended their support and made all efforts to mitigate the impact of delay on completion & commissioning of the Project despite constraints at their end.

प्रमाणित सत्य प्रतिलिपि
CERTIFIED TRUE COPY

Antesh Kumar
Antesh Kumar
Sr. Manager (Board)

Copy:

JGM - (Nano)

JGM - (F&A)

Sr. ED
IFFCO, Phulpur

Antesh Kumar
09/04/2024

Director (CRS) further said that the trial production of Nano Urea (liquid) commenced on 23.12.2022 and the first consignment of 18000 Nano Urea bottles was dispatched on 31.12.2022 to Hamirpur (UP). Since the start of Trial Run production, total 26,64,671 number of 500 ml bottles of Nano Urea had been produced till project completion date on 28.02.2023, and dispatched to various destinations in the country. The Nano Fertiliser Project has been successfully completed in a Time Period of 29 months from Zero Date at a Project Cost of ₹ 198.84 Crore. The entire project was completed with no Accident due to proper coordination with Suppliers and Contractors.

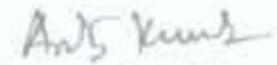
Director (CRS) further said that Shri Mansukh Mandaviya, the Hon'ble Minister of Health & Family Welfare and Chemical & Fertilizers, inaugurated the Nano Urea Fertilizer Plant at Phulpur on 14.02.2023 and dedicated it to the nation. The above achievement was possible by hardwork, dedicated and sustained efforts put in by IFFCO team at the Phulpur Unit, Head Office and Marketing Division. The completion of Nano Fertiliser Project had been achieved with whole hearted support and guidance from various levels. It was, therefore, proposed to consider the Nano Fertiliser Project at Phulpur Unit as completed at a Project Cost of ₹ 198.84 Crore and declare Commercial Production of Nano Fertiliser Plant at Phulpur Unit w.e.f. 01.03.2023.

The Board approved the proposals and adopted the following resolutions:

"RESOLVED THAT the proposal for completion of Nano Fertiliser Project at Phulpur Unit at a Project Cost of ₹ 198.84 Crores and declaration of the Commercial Production of Nano Fertiliser Plant at Phulpur Unit w.e.f. 01.03.2023, be and is hereby approved."

"RESOLVED FURTHER THAT the Managing Director be and is hereby authorised to take further necessary action in the matter."

प्रमाणित सत्य प्रतिलिपि
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Anlesh Kumar
Sr. Manager (Board)