

# इंडियन फारमर्स फर्टिलाइजर कोआपरेटिव लिमिटेड INDIAN FARMERS FERTILISER CO-OPERATIVE LTD.

To.

Dated: 31.10.2023

Additional Director, Ministry of Environment, Forest & Climate Change Integrated Regional Office, Lucknow Kendriya Bhawan,5<sup>th</sup> Floor, Sector-H, Aliganj Lucknow - 226024

Sub: Modernization and expansion of existing fertilizer plant for manufacturing of Nano Fetilizer with proposed production capacity of 36,500 KLA, located at IFFCO Phulpur, P.O, Ghiyanagar, Phulpur, District- Prayagraj, Uttar Pradesh- Consideration of Environmental Clearance-Regarding.

Ref: Environmental Clearance F.No.J-11011/150/2006 IA II (I) dated 14.03.2022 Sir.

This has reference to the **EC Identification No. EC22A016UP124030 dt. 14/03/2022** regarding submission of compliance report on the "Modernization and expansion of existing fertilizer plant for manufacturing of Nano Fertilizer, Phulpur Unit" at IFFCO Phulpur".

Hope the above information regarding compliance of above subject matter would suffice.

Thanking you,

Your's faithfully
For Indian Farmers Fertiliser Cooperative Ltd.

(Sanjay Kudesia) Sr. Executive Director

Encl: as above

cc: 01. Regional Officer, U.P.Pollution Control Board, Sector-10 Yojna No.-3 Avas Vikas Parishad Colony Jhunsi, Prayagraj- 211019 02. Member Secretary, U.P.Pollution Control Board "TC-12/V" Vibhuti Khand, Gomti Nagar, Lucknow-226010

03. The Member Secretary
Central Pollution Control Board,
Parivesh Bhawan, East Arjun Nagar,
New Delhi – 110032

P.O. Ghiyanagar, Prayagraj-212404 (U.P.) Phone : (05332) 253374,251243 पोस्ट : घियानगर, प्रयागराज—212404 (उ०प्र०) फोन : (05332) 253374, 251243

bsi. ISO 50001 Energy Management

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



# SIX MONTHLY COMPLIANCE REPORT

Environmental Clearance F.No. IA-J11011/150/2006-IA-II(I) (EC Id. No.: EC22016UP124030) dated 14.03.2022

IFFCO Phulpur, P.O. Ghiyanagar, Phulpu District- Prayagraj, Uttar Pradesh-212404

Submitted By:



INDIAN FARMERS FERTILISER CO-OPERATIVE LIMITED



Name of the Project: Modernization and Expansion of Existing Fertilizer Plant for Manufacturing of Nano Fertilizer, Phulpur Unit at IFFCO Phulpur, P.O. Ghiyanagar, Phulpur, District- Prayagraj, Uttar Pradesh-212404

EC Identification No.: EC22A016UP124030

Clearance File No.: IA-J-11011/150/2006-IA-II(I) dated 14.03.2022.

#### TABLE: 1

|         | Specific Conditions   |   |  |
|---------|---|---|--|
| Sr. No. | Conditions  | Compliance Status   |  |
| (i)     | All conditions stipulated in the earlier EC vide letter no. J J-11011/150/2006-IA II (I) dated 14.07.2006 shall strictly be complied with.  | All conditions stipulated in the earlier EC vide letter no. J-11011/150/2006-IA II (I) dated 14.07.2006 are being complied with regularly. The last compliance Report regarding earlier EC has been sent on 28-10-2023. We insure it to comply regularly in future also. Copy of compliance report is attached as <b>Annexure-1</b> .   |  |
| (ii)    | The PP shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented. | We will comply regularly with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project will be implemented with the commissioning of project. We will also send the compliance status of recommendations made in the EIA/EMP.   |  |
| (iii)   | The project proponent shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.                    | We have installed a Carbon Dioxide Recovery (CDR) plant to capture CO2 from flue gases generated in Primary Reformer furnace. The CO2 is absorbed in solution, in absorber and then stripped off in stripper. The recovered CO2 is used as intermediate raw material for Urea production in Urea Plant. CDR Plant capacity is 450 MTPD CO2 recovery. Phulpur Unit is having CDM Projects under which certified emission reduction (CER) in terms of CO2 emission reduction are certified by UNFCCC. |  |



| Specific Conditions |  |  |
|---------------------|--|--|
| Sr. No.             | Conditions   | Compliance Status  |
|                     |  | Nano Urea Plant: The manufacturing process of nano-fertilizer plant is a closed loop reactor vessel setup with regulated control. Hence, Nano-fertilizers Plant will not contribute to air emissions. No additional Stack is proposed in modernization and expansion. There shall be no gaseous emission from Nano Fertilizer Unit. It is proposed to use the LP Steam available from the Urea/Ammonia Plant. All measures are being adopted during transportation and handling of Raw Material and Product. |
|                     |  | Fertilizer industry is a vital part of Indian Agricultural system, but because of the substantial amounts of energy and natural gas consumed for the manufacturing processes, fertilizer production is known to have significant environmental impacts throughout the entire cycle of the production stages.   |
|                     |  | The Ammonia and Urea production and transportation plays a significant part in GHG emissions, whereas in production of nano-Urea (New product) accounts for very less GHG emissions. It clearly indicates that nano Urea is not only effective for transportation and handling, but also produces orders of less environmental impacts, making it a more environment-friendly alternative.   |
| (iv)                | The continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises. | The continuous online (24x7) monitoring system for stack emission has already been installed for measurement of  |
| (v)                 | The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity   | Storage of toxic/hazardous raw material are bared minimum with respect to quantity and inventory in existing Urea Production Plant. It is  |



|         | Specific Conditions   |  |  |
|---------|---|--|--|
| Sr. No. | Conditions  | Compliance Status  |  |
|         | and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.  | being followed in Nano fertilizer unit also. Average monthly status of storage of hazardous chemicals (sulphuric acid, hydrochloric acid, Sodium hydroxide and Chlorine tonners) in existing plant, are 66.8 MT, 498 MT, 168 MT and 16.2 tonners respectively).  |  |
| (vi)    | The occupational health center for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with the required safety kits/mask for personal protection. | The occupational health center for surveillance of the worker's health is already available in the plant premises. One pharmacist and assistance staff and one emergency Ambulance is always (24x7) made available in OHC center. Safety kits/masks are always provided for personal protection to all workers & employees at the time of duty hours. Besides the Occupational Health Centre, in IFFCO Phulpur, there is a fully operative 16 bed Hospital with three qualified doctors to deal with any kind of emergency. Also, for emergencies, Phulpur and Prayagraj Hospitals can be contracted. Details of Hospital and PPEs have been submitted on dated 24-08-2023 (revised compliance report).  |  |
| (vii)   | Training shall be imparted to all employees on the safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.  | <ul> <li>Training and awareness programs to all employees as well as contract labors regarding demonstration of fire extinguishers and use of Personal Protective Equipment (PPEs) is given as per training calendar every month.</li> <li>At IFFCO Phulpur, we have developed an animated safety video for induction training of visitors regarding safety norms to abide by inside the factory premises &amp; giving them brief introduction on Emergency Procedures to be followed in case of any emergencies and Raw materials/chemicals being handed or stored at our plant.</li> <li>IFFCO has also developed L&amp;D (Learning and Development) Hub which was started keeping specially COVID-19 in mind. To minimize the gathering of employees &amp; contractor's worker, IFFCO made a team of young, experienced &amp; technical employees to shoot a video and upload it on L&amp;D Hub so that any employee could take safety training anytime.</li> </ul> |  |



#### **IFFCO Phulpur Unit**

| Specific Conditions |   |   |
|---------------------|---|---|
| Sr. No.             | Conditions  | Compliance Status     Toolbox Talk or 5 Minutes Safety Talk before commencing of any job is imparted to workers as a safety practices. This includes discussing Standard procedures (SOPs) to be followed to given job, hazards associated with the job &   |
| (viii)              | The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire – fighting system shall be as per the norms.  | accordingly use of PPE's (Personal Protective Equipment) to complete the job.  To tackle any emergency, Phulpur Unit is having a dedicated Fire and Safety department with well qualified and trained fire inspectors equipped with:  • Fixed Firefighting installations like Fire hydrants, smoke detectors etc.  Well established underground and aboveground fire hydrant network is connected to a fire water pump house. Fire Hydrants, Fire Monitors, Foam Monitors are installed throughout the plant at strategic locations.  • First Aid Fire Fighting Equipment like extinguishers.  Mostly three types of extinguishers (i.e., Mechanical Foam Type, Dry Powder Chemical Type & Carbon Dioxide Type) of varying capacity in sufficient quantity are placed at strategic locations within the plant.  • Mobile Fire Fighting equipment like Fire Tenders.  O4 Nos. Fire tenders are stationed at IFFCO Phulpur Fire & Safety Department for any kind of major emergencies & 01 No. Fire Utility Jeep. These are equipped with various firefighting equipment like fire extinguishers, Branch pipes nozzles, Hoses etc.  Details of Fire-Fighting system has been submitted on dated 24-08-2023 (revised compliance report). |
| (ix)                | Necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The Project proponent shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation | <ul> <li>To avoid accidents standard operating procedures are available. Safety inspections and regular plant rounds are carried out to identify any unsafe act or unsafe conditions existing inside the plant.</li> <li>Online near miss reporting system has been designed for record keeping along with</li> </ul>   |



| Specific Conditions |  |  |
|---------------------|--|--|
| Sr. No.             | Conditions   | Compliance Status  |
|                     | measures as prescribed under the rules and guidelines issued in the Manufacture, Storage, and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemicals Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.   | efficient implementation of corrective action for reduction in unsafe acts and conditions.  Both internal & external expert facilities ar called for safety training for employees an contract workers. Behavior based Safet awareness programs are conducted to minimize unsafe actions & conditions.  IFFCO Phulpur is having well prepared an established On-Site emergency plan is compliance to Section 42 (B) of Factories Act 1948 & Schedule 11 of MSIHC Rule 1989. As per Statutory Requirements, Moc drills are conducted twice a year to check our readiness and preparedness to handle an emergencies. The last Mock Drill was conducted during 27.06.2023. A copy of Mock Drill Report is attached as Annexure 2. |
| (x)                 | The solvent management shall be carried out as follows: (a) Reactor shall be connected to chilled brine condenser system. (b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages. (c) Solvents shall be stored in a separate space specified with all safety measures. (d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done. € Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valves to prevent losses. (f) All the solvent storage tanks shall be connected with vent condenser with chilled brine circulation. | No Solvent is being used in the plant.   |
| (xi).               | Volatile organic compounds (VOCs) /Fugitive emissions shall be controlled at 99.97% with effective chillers/modern technology.   | There is no source of VOC in the plant.  Detailed controlled measures for Fugitive emissions have been submitted on dated 24 08-2023 (revised compliance report).  |
| (xii)               | Total fresh-water requirement shall not exceed 35290 KLD Prior   | Fresh (raw) water requirement for the existing Urea Production Plant is approx. 34340 KLD in   |



| Specific Conditions |   |  |
|---------------------|---|--|
| Sr. No.             | Conditions  | Compliance Status  |
|                     | permissions in this regard shall be obtained from the concerned regulatory authority.   | FY 2022-23. After expansion of Nano Urea Project, an additional requirement of raw water is 95 KLD, which is being supplied by existing facility. Therefore, total freshwater requirement does not exceed 35290 KLD. NOC for the Ground Water Withdrawal is already obtained from the Ground Water Department, Govt. of Uttar Pradesh, in this regard. Copies of NOC, granted by GWD Prayagraj are already submitted in March 2023 compliance report.  |
| (xiii).             | The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rainwater in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/any wastewater shall not be allowed to mix with storm water.  | Rainwater harvesting systems have been constructed in township premises to harvest and recharge rainwater into the ground in the rainy season. Collection of roof top water in plant area may cause polluting the collected water whenever any plant emergency or breakdown will take place. Therefore, no recharge is being done on the plant premises as per CGWA Notification dated 24 <sup>th</sup> Sept. 2020, Clause No. 4.1 – (v) and (vi). Civil work for construction of the lake in Cordet area is going on to recharge and reuse the runoff rainwater to the maximum extent. Details of Rainwater harvesting structure is submitted in March 2023 compliance report |
| (xiv)               | The PP shall be undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of byproducts from the process as raw materials or as raw material substitutes in other process. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. € Venting equipment through vapor recovery system. (f) Use of highpressure hoses for equipment clearing to reduce wastewater generation. | Various measures have been taken to minimize wastewater generation e.g., jacket cooling water, R.V. sealing water BFW pump sealing water are being reused as feed water in steam generation after adequate treatment in Condensate Polisher Unit. However, we have also undertaken waste minimization measures by Metering and control of quantities to minimize waste in existing and expansion project premise also.  There is no by-product generating during the manufacturing process of urea and Nano Fertilizer, which could be used as raw material in further.  Close Feed system will be used for batch reactors.  |



| Specific Conditions |  |   |
|---------------------|--|---|
| Sr. No.             | Conditions   | Compliance Status  During plant Shut Down we are carrying out cleaning of equipment by hydro-jet cleaning which involves high pressure and in turn reduces wastewater generation.   |
| (xv)                | The green belt of at least 5–10 m width shall be developed in nearly 36% of the total project area mainly along the plant periphery/adjacent areas, as committed by the PP. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map. | Dense green belt area has already been developed in 268.7-acre area of existing plant premise and township area of IFFCO Phulpur unit which is approx. 34.6% of total area. Green belt of at least 5–10-meter width, is being developed in proposed expansion of Nano Urea plant. After expansion of Nano Urea, the total area under green belt will be around 272.9 acre (approx. 35.20% of total area).   |
|                     | Trees have to be planted with spacing of 2 m x 2m and number of trees have to be increased accordingly (2500 trees/hectare). The plant species can be selected that will give better carbon sequestration and plantation shall be completed within six months.   | consulted with the State Forest Department and as per guidelines of CPCB, for plant species. Tree spacing of 2x2 meter and no. of tree per hectare will be planned accordingly for better carbon sequestration.   |
| (xvi)               | As committed by the PP the project proponent shall explore the usage of natural gas/bio briquettes.  | At present, coal is being used as fuel in the coal fired boilers to generate steam. Natural Gas is used as supplementary fuel and possibilities are being explored for promoting clean energy measures.  Fertilizer industry is under Control of Fertilizer Industry coordination committee (FICC) which provide subsidy based on raw material used in various plant. However, we will explore the uses of natural gas / briquettes.                          |
| (xvii)              | The activities and the action plan of the issues raised during public hearing to address the socioeconomic issues in the study area, shall be completed as per the schedule presented before the Committee and as described in the EMP report in letter and spirit. The compliances report shall be  | To address the socio-economic issues raised during public hearing, we have submitted the schedule as described in the EMP. Around 165 casual contract workers and 40 permanent employees have been employed in the project. Regular residential and non-residential training is provided to farmers of nearby villages (approx. 25-35 farmers per month) to enhance farming skills. Safety related issues are being addressed to all employees and to involve |



| Specific Conditions |   |   |
|---------------------|---|---|
| Sr. No.             | Conditions  | Compliance Status   |
|                     | submitted to IRO, MoEFCC Lucknow.   | farmers, in training of spraying of Nano fertilizer (Liquid) to achieve sustainable farming. Compliance status is being submitted regularly to IRO, MoEFCC, Lucknow.  |
| (xviii)             | A separate Environmental Management Cell (having qualified person with Environmental Science/ Environmental Engineering/ specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring Functions. | A separate Environmental Management Cell having qualified people is working under the GM (Technical). An Environment Management Committee is also constituted by the competent authority to enhance awareness and address the issues in plant premises. A well- equipped and full-fledged laboratory facility has already been set up to carry out the Environmental Management and Monitoring Functions. Hierarchy and Responsibility of EPC is already submitted to the IRO, MoEF&CC Lucknow. |

#### TABLE: 2

| General Conditions |   |   |
|--------------------|---|---|
| Sr.<br>No.         | Conditions  | Compliance Status   |
| (i)                | No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest, and Climate Change/SEIAA, as applicable. In case of deviations or alternations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any. | No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. A fresh reference shall be made to the Ministry in case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance. |
| (ii)               | The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage,  | We are following and complying with the rules and regulations made under Manufacture, Storage and Import of Hazardous Chemical  |



| and Impact of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rues, 2016 and other rules notified under various Acts.  | Rules, 1989 as amended in October 1994 and 2000, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016.  Quarterly inspection of Major Accident Hazardous Installations Viz. Ammonia storage tanks, Chlorine storage, and Cl <sub>2</sub> wash system (installed in cooling towers) are being done regularly internally and corrective actions are |
|--|--|
|  | being taken if any deviation is observed.  |
|  | Safety audit of the complex is being done annually by an external agency and the report is submitted to the Directorate of Factories after complying with the recommendations.   |
|  | The hazardous wastes are spent catalysts and spent lube oil. These are recyclable and sold to authorized recyclers. Annual return in Form-4 is submitted to UPPCB every year.  |
|  | Hazardous wastes generated at IFFCO Phulpur Unit are spent catalysts and Waste lube oil. These are stored in covered drums under a shed on the cemented platform and sold to authorized recyclers as per Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016.  |
| The energy source for lighting purposes shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.  | We have already initiated the installation of solar panels as renewable energy sources for LED based lighting purposes. From April 2023 to September-2023, approx. 7.94 Lakh KWH solar power generated and fed into the Plant Grid for utilization to LED lighting in Plant and Township premise.  |
| The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime). | Noise levels in and around the plant area are monitored regularly. Acoustic hoods, silencers and the ceiling of control room are adopted to control noise in plant area. The ambient noise levels are measured in various places in the plant. Copy of test reports are attached as <b>Annexure1</b> .   |

(iii)

(iv)



# Wholly owned by Cooperatives IFFCO Phulpur Unit

| (V)    | The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.   | IFFCO Phulpur Unit undertake various measures and activities under IRDP for improving the socio-economic conditions of nearby area. Lot of activities such as construction of rooms in nearby school buildings, distribution and training of school children, distribution of blankets, tricycles among the local villagers, distribution of harvesting tools and training to the farmers are being carried out by the IFFCO Phulpur as community welfare measures. Besides these activities, local villagers will be involved in the construction and commissioning phase of the project at the maximum extent through contractor. Details of IRDP is submitted on dated 24-08-2023 (revised compliance report). |
|--------|---|---|
| (vi)   | The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment. Forests and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/pollution control measures shall not be diverted for any other purpose. | Funds, as directed in EIA towards capital cost (3.09 crore) and recurring cost (17 lac) per annum to implement the conditions stipulated by MoEF&CC have been earmarked in the project head fund. This fund will be utilized as per the direction given by MoEF&CC, in all concerned jobs.  |
| (vii)  | A copy of the clearance letter shall be sent by the project proponent to concern Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body, and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal.  | A copy of the Environmental Clearance letter has been sent to chairman, Nagar Panchayat (Town Area) Phulpur and Chairman, Jila Panchayat, Prayagraj. A copy of the same has already been sent in the compliance report dt. 30.05.2022.  |
| (viii) | The project proponent shall also upload/submit six monthly reports on Parivesh Portal on the status of compliance of the stipulated Environmental Clearance Conditions including results of monitored data to the respective Integrated Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A   | Six monthly compliance reports including monitoring data will be uploaded on Parivesh Portal and will be submitted to the regional Office of CPCB and SPCB. Same is also attached with <b>Annexure 1</b> .  |



#### **IFFCO Phulpur Unit**

|       | copy of the Environmental Clearance and six-monthly compliance status report shall be posted on the website of the company.  |  |
|-------|--|--|
| (ix)  | The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Integrated Regional Office of MoEF&CC by e-mail.  | The environmental statement for each financial year ending 31 <sup>st</sup> March, in Form – V, is submitted regularly to the U.P. Pollution Control Board, IRO MoEF&CC, Lucknow and other concerned authorities. A copy of the Environmental Statement and Compliance of Environmental Clearance has been put on the IFFCO website, and we ensure that this report will also be sent by e-mail to IRO, Lucknow.  Copy of Form-V is already submitted on dated 24-08-2023 (revised compliance report).                             |
| (x)   | The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry and at <a href="https://parivesh.nic.in/">https://parivesh.nic.in/</a> . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry. | The information regarding environmental clearance accorded by the MoEF&CC is published in "Hindustran Samvad" dt 18/03/2022, "Swatantra Prabhat" dt. 18/03/2022 (Hindi News Paper) dt. and "Pioneer News Service" dt. 20/03/2022 and "Jeevan Express News" dt. 19/03/2022 (English News Papers) and some others vernacular language newspapers. The cutting of advertisement in newspapers have been sent to IRO Lucknow, dated 12.05.2022. Copy of the newspapers have already been sent in last compliance report dt 30.05.2022. |
| (xi)  | The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.   | The financial closure of the project will be completed on or before 31st December 2023 and subsequently it will be informed to the IRO, MoEF&CC Lucknow and other concerned authorities. Consent to Establish (CTE) has been issued by UPPCB Lucknow on dt. 27th March,2022 to start the project.  |
| (xii) | This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to the project.   | Noted.   |

फूलपुर इकाई PHULPUR UNIT



# इंडियन फारमर्स फर्टिलाइजर कोआपरेटिव लिमिटेड INDIAN FARMERS FERTILISER CO-OPERATIVE LTD.

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

Date: 28.10.2023

To.

The Regional Office (Central Region)
Ministry of Environment & Forests
Govt. of India,
Kendriya Bhawan, 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 April -2023 to September- 2023.

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

Thanking you,

Your's faithfully For Indian Farmers Fertiliser Cooperative Ltd.

(Sanjay Kudesia) Sr. Executive Director

Lanjan Kuro

Encl: as above

cc: 01. Regional Officer, U.P.Pollution control Board, Sector- 10 Yojna No.-3 Avas Vikas Parishad Colony Jhunsi, 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,
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up in the direction as eve data the With monitoring stations shall Regional quality Lucknow six and UPPCB well as where maximum with along statistical analysis. concentration consultation downwind anticipated Office at submitted Ministry's quarterly Ambient UPPCB monthly ground

Five ambient air quality monitoring stations have been set up in consultation with UPPCB at locations suggested by Regional Officer, UPPCB, Allahabad. Ambient air quality monitoring data is submitted monthly to UPPCB, Lucknow, CPCB, New Delhi & Regional Office, MoEF&CC, Lucknow. All values are within the limit.

Ambient Air Quality (Range) obtained during the period of April -2023 to September-2023

| AAQ Monitoring<br>Stations | PM 2.5 (microgram/m³) | PM 10 (microgram/m³) | SO <sub>2</sub> (microgram/m <sup>3</sup> ) | Ammonia (microgram/m³) | NOx<br>(microgram/m³) |
|----------------------------|-----------------------|----------------------|---|------------------------|-----------------------|
| CORDET                     | 38-29                 | 59-48                | 20-10                                       | 39-28                  | 24-14                 |
| Central School             | 38-29                 | 59-47                | 20-10                                       | 38-28                  | 25-15                 |
| Railway Gate               | 39-28                 | 59-49                | 20-10                                       | 38-28                  | 25-12                 |
| Behind R.O.                | 39-29                 | 59-48                | 19-10                                       | 38-28                  | 25-16                 |
| Gate No.4                  | 39-28                 | 59-47                | 20-10                                       | 38-28                  | 26-16                 |

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.

Total water consumption after commissioning of the Capacity Enhancement Project is 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 around 31911 M3/d during April 2023 to September 2023, as against the envisaged treatment within our premises.

the E(P) Act 1986 and norms laid down by U.P. Pollution Control Board Lucknow. Report of Effluent water generated and recycled/ reused, and ground water quality being abstracted No effluent is discharged outside the premises except during the rainy season. of final treated effluent is always conforms the standards prescribed under by NABL accredited, (third party) is attached as Annexure-2.

Spent catalysts are stored in closed Metallic drums under shed inside the factory premises for sale to authorized recyclers/ reprocessors for Adequate arrangement has been made for handling of ammonia through stacks. Adequate provisions have been made to keep the ammonia vapours in liquidified state by way of refrigeration both at We have already implemented the recommendations made in the vapours in case of Plant up set condition. No Ammonia is vented Ammonia Plant and Ammonia storage area. In case all the back up one 40m high flare stack has been provided to flare excess ammonia charter on corporate Responsibility for Environment Protection township. (ii) Guest House (iii) Residential buildings and open area of refrigeration system fails, however the possibility of which is zero, The green belt already developed is being maintained. During the last six months grass cutting, irrigation & maint. of green belt has Area covered as percentage of total area owned by the industry: been done. Native plant species have been planted in consultation 34.60%. Density of tree plantation is being maintained as per the Rainwater harvesting structures to harvest the runoff water from the of DFO Allahabad to develop green belt in & around factory, No. of Trees planted during the occasion of Plantation Drive as per the direction of Govt. of U.P., approx. 35580 saplings have been Waste oil collected is stored inside the factory premises for sale to various locations in township i.e. (i) Central School building in roof tops have been constructed and schemes implemented (CREP) which are applicable to IFFCO Phulpur unit. Township at three locations. (iv) Near CISF Barrack. planted, during April -2023 to September-2023 into the atmosphere without any harm. authorized recyclers / re-processors. township and CORDET. Metal recovery The company shall undertake adequate protection shall be used in steam generation plant as fuel and drains shall be connected to a separate close authorized recyclers / reprocessors. Waste oil to authorized recyclers/ measures for handling of ammonia vapours in header from which ammonia vapours shall be 0 Environmental case of plant upset condition. Safety well exhaust The company shall develop rainwater harvesting structures to harvest the runoff water from the roof storm water Green belt already developed in 33% shall be properly maintained and an effort shall be made to planting trees at all the vacant spaces to mitigate the effects of fugitive emissions all around the guidelines. Density of trees at the site shall be increase the percentage by regularly plant. Further development of the green belt shall per the Central Pollution Control Board vented from vent stack after diluting with stream. drainage system for recharge of ground water. in the Charter ത Protection (CREP) for fertilizer industries. implement tops and by laying a separate maintained as 2,000-2, 500 trees/ha. for Corporate Responsibility made along with coal or sold shall recommendations company reprocessors further 10

# General Conditions:

| Sr.No.       | Conditions  | Compliance Status   |
|--------------|---|---|
| <del>*</del> | 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.  |
| Ci           | No further expansion / modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.   | Proposal for Modernization and Expansion of existing fertilizer plant for manufacturing of Nano Fertilizer with proposed capacity of 36500 KLA at IFFCO Phulpur, has been submitted to MOEF&CC. Proposal has been approved and Environment Clearance No. EC22A016UP124030 dt. 14th March 2022 granted to IFFCO Phulpur by MOEF&CC, New Delhi. CTO for the Project Project (170943/UPPCB/Allahabad (UPPCBRO)/CTO/both/PRAYAGRAJ/2022) has also been granted by UPPCB, Lucknow. Project has been completed and compliance reports related to the project are being submitted regularly to all concerned agencies. |
|              | The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management & Handling) Rules, 2003. | We are strictly complying with the rules and regulations regarding handling and disposal of hazardous wastes prescribed under Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and their amendments i.e., Hazardous, and other wastes (Management and Transboundary Movement) Rules, 2016. The same will be ensured in future also.   |
| 4.           | The project proponent shall also comply with all the safeguards recommended in the EIA/EMP Report.  | We are complying with the entire safeguard recommended in EIA/ EMP Report. The same will be ensured in future also.   |
| r.           | The project authorities will set up a separate environmental management cell for effective implementation of all the above stipulations under the control of Senior executive.                                    | Environment & Pollution Control (EPC) cell has already been constituted and functioning at IFFCO Phulpur in control of a senior Executive under Jt. General Manager.  |



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Tel. 0522-4002545, Mobile: 09415518818,

GSTIN :- 09AAJFP5925G1ZY

#### Test Report for Stack Monitoring

#### ULR-TC824123000001670



| Report !                 |  | Refe                                   | rence No.                        |                  | Issue Date  |
|--------------------------|--|--|----------------------------------|------------------|-------------|
| PCS/SE/                  | 02/2023  | PCS/IFI                                | CO/03/2023                       |                  | 25/10/2023  |
| 1.Name a<br>of Ind       | & address<br>ustry   | M/s Indian Farmers Fertilizer Coo      | perative Limited Phulpur unit, F | rayagraj         | ▼/ ≥300±10> |
| 2. Type o                | Industry   | Fertilizer Industry                    | 7. Method of Sampling            | PCS/WI/SA        | MP/20       |
| 3. Sample                | e collected by   | Mr. Vipin & Mr. Sunil                  | 8. Date of sampling              | 11/10/2023-      |             |
| 4. Weath                 | er Condition   | Clear Sky                              | 9. Sample receipt in lab         | 13/10/2023       |             |
| <ol><li>Sampli</li></ol> | ng Location  | Urea-2                                 | 10. Date of Analysis             | 13/10/2023-      | 14/10/2023  |
| 6. Lab Co                | ode  | PCS23/102/1489                         | 11. Sample Analyzed By           | Mr. Rohit Ya     | aday        |
| S. No.                   |  |  |                                  | Value            |             |
| 1                        | Duct Attac   |  | Urea-2                           | (Prilling Tower) |             |
| 2                        | Type of St   |  |                                  | Circular         |             |
| 3                        | Stack height from Ground (m)  Material of Construction of duct |  | 104<br>RCC                       |                  |             |
| 4.                       |  |  |                                  |                  |             |
| 5.                       | Sampling   | port height from Ground(m)             | 104                              |                  |             |
| 6.                       | Type of fu   |  | NA                               |                  |             |
| 7.                       |  | Duration (min)                         | 85                               |                  |             |
| 8.                       | Atmospher  | ric Pressure (mmHg)                    | 740                              |                  |             |
| 9.                       | Atmospher  | ric temperature (°K)                   | 309                              |                  |             |
| 10.                      |  | emperature ("K)                        | 323                              |                  |             |
| 11.                      | Flue Gas V   | 'elocity (m/s)                         | 2.97                             |                  |             |
| 12.                      | Flue Gas F   | xit Volume (Lit)                       |                                  | 10200            | *           |
|                          |  | Pollutants                             | Reference Method                 | Result           | Standard*   |
|                          |  | PM (mg/Nm <sup>3</sup> )               | IS 11255 PART-1:1985             | 38.9             | k-          |
|                          |  | NH <sub>3</sub> ( mg/Nm <sup>3</sup> ) | IS 11255 PART-6                  | 32.0             | -           |

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(Dr. Divya Misra) Managing Director

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# Test Report for Stack Monitoring

ULR-TC824123000001665



|   | /01/2023   |  | ference No.<br>FFCO/03/2023                    |                  | Issue Da                   |  |
|---|--|--|--|------------------|----------------------------|--|
|   | e & address<br>dustry  | M/s Indian Farmers Fertilizer Co   | operative Limited Phulpur unit, P.             | rayagraj         | 25/10/202                  |  |
| <ol> <li>Sample</li> <li>Weath</li> </ol> | of Industry<br>le collected by<br>ner Condition<br>ing Location<br>ode | Ammonia-1 Primary reformer  PCS23/102/1486  Mr. Vipin & Mr. Sunil  Clear Sky  Ammonia-1 Primary reformer  PCS23/102/1486  7. Method of Sampling  8. Date of sampling  9. Sample receipt in lab  10. Date of Analysis |  | 13/10/2023       | -12/10/2023<br>-14/10/2023 |  |
| 0.710.                                    | Duct Attac   | hed to   |  | Value            | auav                       |  |
| 2   | Type of Stack Stack height from Ground (m)                             |  | Ammonia-                                       | 1 Primary reform | mer                        |  |
| .3  |  |  | Circular                                       |                  |                            |  |
| 4   | Material of  | Construction of duet   | M.S. As per requirement                        |                  |                            |  |
| 5   | Normal O   | perating hour  |  |                  |                            |  |
| 6   | Type of fu   | el used  |  |                  |                            |  |
| 7   | Sampling L   | Duration   | LNG  |                  |                            |  |
| 8   | Atmospher  | ic Pressure (mmHg)   | 30   |                  |                            |  |
|   | Pollutants   |  | Potores 24 d                                   | 740              |                            |  |
|   |  | PM (mg/Nm³)  | Reference Method                               | Result           | Standard*                  |  |
|   |  | SO <sub>2</sub> (mg/Nm3)   | 1S 11255 PART-1:1985                           | 10.4             | -                          |  |
|   |  | NOx (mg/Nm <sup>3</sup> )  | IS 11255 PART-2:1985<br>PCS/SOP/ST/NOx/12:2021 | <1.0             | -                          |  |
| star I TT                                 |  | ort relate only to the items tested  | 1 C3/3OF/ST/NOX/12:2021                        | 142              | -                          |  |

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GSTIN: 09AAJFP5925G1ZY

#### Test Report for Stack Monitoring

#### ULR-TC824123000001666

| Report N            | io.   | Refe  | rence No.   |   | Issue Date   |  |
|---------------------|---|---|---|---|--|--|
| PCS/SE/0            | 02/2023                                     | PCS/IFI   | FCO/03/2023   |   | 25/10/2023   |  |
| 1.Name 8<br>of Indu |   | M/s Indian Farmers Fertilizer Coo   | perative Limited Phulpur unit, Pra  | ayagraj   |  |  |
| 4. Weathe           | collected by<br>er Condition<br>ng Location | Fertilizer Industry<br>Mr. Vipin & Mr. Sunil<br>Clear Sky<br>Ammonia-2 Primary reformer<br>PCS23/102/1487 | 7. Method of Sampling 8. Date of sampling 9. Sample receipt in lab 10. Date of Analysis | PCS/WI/SA)<br>11/10/2023-<br>13/10/2023-<br>13/10/2023- | 12/10/2023<br>14/10/2023   |  |
| S. No.              | ac .  | 1 C 32.3/ [W.2. 146]  | 11. Sample Analyzed By  | Mr. Rohit Ya<br>Value                                   | idav   |  |
| 1                   | Duct Attac                                  | ched to   | Ammonia-  | 2 Primary reform  | 101  |  |
| 2                   | Type of Stack                               |   | Circular  |   |  |  |
| 3                   | Stack heig                                  | ht from Ground (m)  | 30<br>M.S.  |   |  |  |
| 4                   | Material o                                  | f Construction of duct  |   |   |  |  |
| 5                   |   | perating hour   | As per requirement  |   |  |  |
| 6                   | Type of fi                                  |   | LNG   |   |  |  |
| 7                   | Sampling                                    |   | 30  |   |  |  |
| 8                   | Atmosphe                                    | ric Pressure (mmHg)   |   | 740   | Water the second |  |
|                     | Pollutants                                  |   | Reference Method  | Result  | Standard*  |  |
|                     |   | PM (mg/Nm <sup>3</sup> )  | IS 11255 PART-1:1985  | 10.9  |  |  |
|                     |   | SO <sub>2</sub> (mg/Nm3)  | IS 11255 PART-2:1985  | <1.0  | -  |  |
|                     |   | NOx (mg/Nm <sup>3</sup> )   | PCS/SOP/ST/NOx/12.2021  | 129   | -  |  |

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#### Test Report for Stack Monitoring

ULR-TC824123000001667

| Report !      | No.                              | Refe                              | erence No.                         |                | Issue Date |
|---------------|----------------------------------|-----------------------------------|------------------------------------|----------------|------------|
| PCS/SE/       | 03/2023                          | PCS/IFI                           | FCO/03/2023                        |                | 25/10/2023 |
| 1.Name of Ind | & address<br>lustry              | M/s Indian Farmers Fertilizer Coo | perative Limited Phulpur unit, Pra | ayagraj        |            |
| 2. Type o     | of Industry                      | Fertilizer Industry               | 7. Method of Sampling              | PCS/WI/SAN     | AP/20      |
| 3. Sampl      | e collected by                   | Mr. Vipin & Mr. Sunil             | 8. Date of sampling                | 11/10/2023-1   |            |
| 4. Weath      | er Condition                     | Clear Sky                         | 9. Sample receipt in lah           | 13/10/2023     |            |
| 5. Sampl      | ing Location                     | Ammonia-1 (GT-HRSG)               | 10. Date of Analysis               | 13/10/2023-1   | 4/10/2023  |
| 6. Lab Co     | nde                              | PCS23/102/1484                    | 11. Sample Analyzed By             | Mr. Rohit Ya   | dav        |
| S. No.        |                                  |                                   |                                    | Value          |            |
| 1.            | Duct Attac                       | hed to                            | Animoni                            | ia-1 (GT-HRSG) |            |
| 2.            | Type of Sta                      | ick                               |                                    | Circular       |            |
| 3.            | Stack height from Ground (m)     |                                   |                                    | 30             |            |
| 4.            | Material of Construction of duct |                                   | M.S.                               |                |            |
| 5.            | Normal Op                        | perating hour                     | As per requirement                 |                |            |
| 6.            | Type of fu                       | el used                           | LNG                                |                |            |
| 7.            | Sampling I                       | Ouration                          | 40                                 |                |            |
| 8.            | Atmospher                        | c Pressure (mmHg)                 | 740                                |                |            |
| 9.            | Atmospheri                       | c temperature (°K)                | 308                                |                |            |
| 10.           | Flue Gas te                      | mperature ('K)                    | 394                                |                |            |
| 11.           | Flue Gas V                       | elocity (m/s)                     | 7.46                               |                |            |
| 12.           |                                  | cit Volume (Litre)                | 1008.0                             |                |            |
|               |                                  | Pollutants                        | Reference Method                   | Result         | Standard*  |
|               | O                                | PM (mg/Nm <sup>3</sup> )          | IS 11255 PART-1:1985               | 9.5            | -          |
|               |                                  | SO <sub>2</sub> (mg/Nm3)          | 4                                  | <1.0           | -          |
|               |                                  | NOx (mg/Nm <sup>3</sup> )         | PCS/SOP/ST/NOx/12:2021             | 24             | -          |

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

#### Test Report for Stack Monitoring



#### ULR-TC824123000001668

| Report ?      | No.                              | Refe                              | rence No.                         |               | Issue Date |
|---------------|----------------------------------|-----------------------------------|-----------------------------------|---------------|------------|
| PCS/SE/       | 04/2023                          | PCS/IF1                           | FCO/03/2023                       |               | 25/10/2023 |
| 1.Name of Ind | & address<br>ustry               | M/s Indian Farmers Fertilizer Coo | perative Limited Phulpur unit, Pr | ayagraj       |            |
| 2. Type o     | of Industry                      | Fertilizer Industry               | 7. Method of Sampling             | PCS/WI/SA     | MP/20      |
| 3. Sample     | e collected by                   | Mr. Vipin & Mr. Sunil             | 8. Date of sampling               | 11/10/2023-   |            |
| 4. Weath      | er Condition                     | Clear Sky                         | 9. Sample receipt in lab          | 13/10/2023    |            |
| 5. Sampli     | ing Location                     | Ammonia-2 (HRU)                   | 10. Date of Analysis              | 13/10/2023-   | 14/10/2023 |
| 6. Lab Co     |                                  | PCS23/102/1485                    | 11. Sample Analyzed By            | Mr. Rohit Ya  |            |
| S. No.        |                                  |                                   |                                   | Value         |            |
| 1.            | Duct Attac                       | hed to                            | Ami                               | monia-2 (HRU) |            |
| 2.            | Type of Sta                      | ick                               |                                   | Circular      | •          |
| 3.            | Stack heigh                      | nt from Ground (m)                |                                   | 30            |            |
| 4.            | Material of Construction of duct |                                   | M.S.                              |               |            |
| 5.            | Normal Op                        | perating hour                     | As per requirement                |               |            |
| 6.            | Type of fue                      |                                   | LNG                               |               |            |
| 7.            | Sampling D                       |                                   | 40                                |               |            |
| 8.            |                                  | ic Pressure (mmHg)                | 740                               |               |            |
| 9.            |                                  | ic temperature ( <sup>0</sup> K)  | 308                               |               |            |
| 10.           |                                  | mperature ( <sup>0</sup> K)       | 388                               |               |            |
| 11.           |                                  | elocity (m/s)                     |                                   |               |            |
| 12.           |                                  | xit Volume (Litre)                | 1035.0                            |               |            |
|               |                                  | Pollutants                        | Reference Method                  | Result        | Standard*  |
|               |                                  | PM (mg/Nm <sup>3</sup> )          | IS 11255 PART-1:1985              | 9.6           | -          |
|               |                                  | SO <sub>2</sub> (mg/Nm3)          | IS 11255 PART-2:1985              | <1.0          |            |
|               |                                  | NOx (mg/Nm³)                      | PCS/SOP/ST/NOx/12:2021            | 59.0          |            |

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GSTIN: - 09AAJFP5925GIZY

#### Stack Emission Data and Analytical Results

ULR-TC824123000001663

| Report !          | No.                                 | Refe                              | rence No.                          |              | Issue Date |
|-------------------|-------------------------------------|-----------------------------------|------------------------------------|--------------|------------|
| PCS/SE/           | 01/2023                             | PCS/IFF                           | FCO/03/2023                        |              | 25/10/2023 |
| I. Name<br>of Ind | & address<br>lustry                 | M/s Indian Farmers Fertilizer Coo | perative Limited Phulpur unit, Pra | yagraj       |            |
| 2. Type o         | of Industry                         | Fertilizer Industry               | 7. Method of Sampling              | PCS/WI/SAN   | MP/20      |
| 3. Sample         | e collected by                      | Mr. Vipin & Mr. Sunil             | 8. Date of sampling                | 11/10/2023-1 | 2/10/2023  |
| 4. Weath          | er Condition                        | Clear Sky                         | 9. Sample receipt in lab           | 13/10/2023   |            |
| 5. Sampli         | ing Location                        | Boiler No- 1                      | 10. Date of Analysis               | 13/10/2023-1 | 4/10/2023  |
| 6. Lab Co         | ode                                 | PCS23/102/1490                    | 11. Sample Analyzed By             | Mr. Rohit Ya | idav       |
| S. No.            |                                     |                                   |                                    | Value        |            |
| 1                 | Duct Attac                          | ched to                           |                                    | Boiler No-1  |            |
| 2                 | Type of St                          |                                   |                                    | Circular     |            |
| 3                 | Stack heig                          | ht from Ground (m)                |                                    | 100          |            |
| 4                 | Type of D                           | uct                               | 1                                  | tectangular  |            |
| 5                 | Material o                          | f Construction of duct            | struction of duct RCC              |              |            |
| 6                 | Sampling port height from Ground(m) |                                   | 12.4                               |              |            |
| 7                 | Type of fu                          |                                   | Coal                               |              |            |
| 8                 | Sampling                            | Duration (min)                    | 55                                 |              |            |
| 9                 | Atmosphe                            | ric Pressure (mmHg)               | 740                                |              |            |
| 10                | Atmosphe                            | ric temperature (°K)              | 308                                |              |            |
| 11                | Flue Gas to                         | emperature (°K)                   | 416                                |              |            |
| 12                | Flue Gas \                          | /elocity (m/s)                    | 13.75                              |              |            |
| 1.3               | Flue Gas L                          | Exit Volume (Lit)                 |                                    | 1045.0       |            |
|                   |                                     | Pollutants                        | Reference Method                   | Result       | Standard*  |
|                   |                                     | PM (mg/Nm <sup>3</sup> )          | IS 11255 PART-1:1985               | 28.9         |            |
|                   | •                                   | SO <sub>2</sub> (mg/Nm3)          | IS 11255 PART-2:1985               | 326.0        | -          |
|                   |                                     | NOx (mg/Nm <sup>3</sup> )         | PCS/SOP/ST/NOx/12:2021             | 235.0        | -          |
|                   |                                     | Hg(mg/Nm <sup>T</sup> )           | PCS/SOP/ST/08:2021                 | *BDL         | *          |

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

#### Stack Emission Data and Analytical Results



ULR-TC824123000001664

| Report N                            | 0.   | Refer   | rence No.  |  | Issue Date               |  |
|-------------------------------------|--|---|--|--|--------------------------|--|
| PCS/SE/0                            |  | PCS/IFF   | CO/03/2023   |  | 25/10/2023               |  |
| 1.Name & of Indi                    | el elizabeth eli | M/s Indian Farmers Fertilizer Coop  | perative Limited Phulpur unit, Pra   | yagraj   |                          |  |
| 2. Type o<br>3. Sample<br>4. Weathe | f Industry<br>collected by<br>er Condition<br>ng Location  | Fertilizer Industry Mr. Vipin & Mr. Sunil Clear Sky Boiler No- 3 PCS23/102/1491 | 7. Method of Sampling 8. Date of sampling 9. Sample receipt in lab 10. Date of Analysis 11. Sample Analyzed By | PCS/WI/SAM<br>11/10/2023-1<br>13/10/2023<br>13/10/2023-1<br>Mr. Rohit Ya | 12/10/2023<br>14/10/2023 |  |
| S. No.                              | 140  | T C David Court For 7 1   | 17.13(1/1)   | Value  |                          |  |
| 1                                   | Duct Atta  | ched to   |  | Boiler No-3  |                          |  |
| 2                                   | Type of S  |   |  | Circular   |                          |  |
| 3                                   |  | tht from Ground (m)   |  | 100  |                          |  |
| 4                                   | Type of D  |   | Rectangular  |  |                          |  |
| 5                                   | Material of Construction of duct Sampling port height from Ground(m)   |   | RCC<br>12.4  |  |                          |  |
| 6                                   |  |   |  |  |                          |  |
| 7                                   | Type of fu   | iel used  | Coal   |  |                          |  |
| 8                                   |  | Duration (min)  | 60   |  |                          |  |
| 9                                   |  | ric Pressure (mmHg)   | 740  |  |                          |  |
| 10                                  | Atmosphe   | ric temperature ("K)  | 308  |  |                          |  |
| 11                                  |  | emperature (°K)   | 400  |  |                          |  |
| 12                                  |  | Velocity (m/s)  | 11.8   |  |                          |  |
| 13                                  | Flue Gas I   | Exit Volume (Lit)   |  | 1080.0   |                          |  |
|                                     |  | Pollutants  | Reference Method   | Result   | Standard*                |  |
|                                     |  | PM (mg/Nm <sup>3</sup> )  | IS 11255 PART-1:1985   | 91.0   | 46                       |  |
|                                     |  | SO <sub>2</sub> (mg/Nm3)  | IS 11255 PART-2:1985   | 332  | -                        |  |
|                                     |  | NOx (mg/Nm³)  | PCS/SOP/ST/NOx/12:2021   | 221  | -                        |  |
|                                     |  | Hg(mg/Nm <sup>3</sup> )   | PCS/SOP/ST/08:2021   | *BDL   |                          |  |

\*BDL = Below Detection Limit

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5. No deviation as per the Standard Method.

Authorized Signatory

(Dr. Divya Misra) Managing Director

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

#### Test Report for Ambient Air Quality

ULR-TC824123000001657



|                         | ort No.<br>/AAQ/01/2023   |                    | Reference No.<br>PCS/IFFCO/03/2023 |  | Issue Da<br>25/10/202 |                                |
|-------------------------|---|--------------------|------------------------------------|--|-----------------------|--------------------------------|
| 1. Na<br>Indus          | nme & Address of<br>stry:   | M/s Inc<br>Prayagr |                                    | s Fertilizer Cooperative L   | imited Phu            | lpur unit,                     |
| 3.San<br>4. Mc<br>5. We | ne of Industry: npling Location: onitoring done by: eather Condition: Code: |                    | ilway Gate<br>n,& Mr.Sunil         | 7.Method of Sampling:<br>8.Date of Monitoring:<br>9.Sample Receipt in Lab:<br>10.Date of Analysis:<br>11.Sample Analyzed By: | 13/10/2023            | 3-12/10/2023<br>3 - 14/10/2023 |
| SI.<br>No.              | SI. Parameters  |                    | Unit                               | Method of<br>Measurement   | Result                | Standards*                     |
| 1                       | Particulate Matter  | (PM 10)            | (µg/m³)                            | IS: 5182 Part (23)   | 57.0                  | 100                            |
| 2                       | Particulate Matter  | (PM 2.5)           | $(\mu g/m^3)$                      | 1S 5182 (Part-24)  | 36.0                  | 60                             |
| 3                       | Sulphur Dioxide (S  | SO <sub>2</sub> )  | (µg/m³)                            | IS: 5182 (Part-2)  | 13.8                  | 80                             |
| 4                       | Nitrogen Dioxide  | $(NO_2)$           | $(\mu g/m^3)$                      | IS: 5182 (Part 6)  | 26.5                  | 80                             |
| 5                       | Ammonia(NH <sub>3</sub> )   |                    | $(\mu g/m^3)$                      | IS: 5182 (Part-25)   | 31.0                  | 400                            |

\*NAAQS CPCB Notification, detect 18/11/2009

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[el\_0522-4002545, Mobile: 09415518818,

GSTIN:-09AAJFP5925GIZY

#### Test Report for Ambient Air Quality

| Report<br>PCS/A        | No.<br>AQ/01/2023 |                      | eference No.<br>IFFCO/03/2023 |                       | 25/10/2023    |
|------------------------|-------------------|----------------------|-------------------------------|-----------------------|---------------|
| -                      | e & Address of    | T                    | s Fertilizer Cooperative      | Limited Ph            |               |
|                        | of Industry:      | Fertilizer industry  | 7.Method of Sampling:         | PCS/WI/S              | SAMP/20       |
| 3. Sampling Location:  |                   | Near Railway Gate    | 8.Date of Monitoring:         | 11/10/202             | 23-12/10/2023 |
| 4. Monitoring done by: |                   | Mr. Vipin,& Mr.Sunil | 9. Sample Receipt in Lab:     | 13/10/2023            |               |
| 5. Weat                | her Condition:    | Clear Sky            | 10.Date of Analysis:          | 13/10/2023 - 14/10/20 |               |
| 6.Lab Code:            |                   | PCS23/102/1479       | 11.Sample Analyzed By:        | Mr. Rohit Yadav       |               |
| Sl. No.                | Parameters        | Unit                 | Reference Method              | Result                | Standards*    |
| 1                      | Urea              | (µg/m³)              | Micro Kjeldahl Method         | 25.0                  | -             |
| 2                      | HC                | (µg/m³)              | GC FID                        | ND*                   | -             |

\*NAAOS CPCB Notification, dated 18.11,2009

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#### Test Report for Ambient Air Quality

ULR-TC824123000001658



|                                       |  |                    |                           |  |            | 11 4241                        |
|---------------------------------------|--|--------------------|---------------------------|--|------------|--------------------------------|
|                                       | ort No.  |                    |                           | Reference No.  |            | Issue Date                     |
| PCS/                                  | /AAQ/02/2023   |                    | PCS/IFFCO/03/2023         |  |            | 25/10/2023                     |
| 1. Na<br>Indus                        | nme & Address of stry:   | M/s Inc<br>Prayagi |                           | s Fertilizer Cooperative I   | imited Phu | lpur unit,                     |
| 3.San<br>4. Mc<br>5. Wc               | oe of Industry;<br>inpling Location;<br>onitoring done by:<br>eather Condition : |                    | R.O Plant<br>n,& Mr.Sunil | 7.Method of Sampling:<br>8.Date of Monitoring:<br>9.Sample Receipt in Lab:<br>10.Date of Analysis:<br>11.Sample Analyzed By: | 13/10/2023 | 3-12/10/2023<br>3 - 14/10/2023 |
| 6.Lab Code: PCS2  Sl. Parameters  No. |  | 1 ( 323/1          | Unit                      | Method of<br>Measurement   | Result     | Standards*                     |
| 1                                     | Particulate Matter   | (PM 10)            | (µg/m³)                   | IS: 5182 Part (23)   | 59.0       | 100                            |
| 2                                     | Particulate Matter   | (PM 2.5)           | (µg/m³)                   | IS 5182 (Part-24)  | 38.0       | 60                             |
| 3                                     | Sulphur Dioxide (S   | SO <sub>2</sub> )  | $(\mu g/m^3)$             | IS: 5182 (Part-2)  | 14.7       | 80                             |
| 4                                     | Nitrogen Dioxide   | $(NO_2)$           | (μg/ m³)                  | IS: 5182 (Part 6)  | 22.3       | 80                             |
| 5                                     | Ammonia(NH3)   |                    | $(\mu g/m^3)$             | IS: 5182 (Part-25)   | 29.0       | 400                            |

\*NAAQS CPCB Notification, dated 18.11.2009

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|   |            | Test Report for  | Ambient Air Quality  | Y         |                                |  |
|---|------------|--|--|-----------|--------------------------------|--|
| Report No.<br>PCS/AAQ/02/2023   |            | Reference No.         Issue Date           PCS/IFFCO/03/2023         25/10/2023    |  |           |                                |  |
| 1. Name & Address of Industry:  |            | M/s Indian Farmers Fertilizer Cooperative Limited Phulpur unit,<br>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 PCS23/102/1480 | 7.Method of Sampling:<br>8.Date of Monitoring:<br>9.Sample Receipt in Lab:<br>10.Date of Analysis:<br>11.Sample Analyzed By: | 13/10/202 | 23-12/10/2023<br>23-14/10/2023 |  |
| SI. No.   | Parameters | Unit   | Reference Method   | Result    | Standards*                     |  |
| 1   | Urea       | (μg/m³)  | Micro Kjeldahl Method  | 25.6      | -                              |  |
| 2   | HC         | (µg/m³)  | GC FID   | ND*       | -                              |  |

2 HC
\*NAAQS CPCB Notification, dated 18.11 2009

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GSTIN: 09AAJFP5925GIZY

#### Test Report for Ambient Air Quality

ULR-TC824123000001659



|  |                           |  |               |  |   | 11.820                   |
|--|---------------------------|--|---------------|--|---|--------------------------|
| Report No.   |                           |  | DC            | Reference No.  |   | Issue Date<br>25/10/2023 |
| PCS/   | AAQ/03/2023               | A CONTRACTOR OF THE PROPERTY O |               | :S/IFFCO/03/2023   |   |                          |
| Industry: Prayag   |                           |  |               | Fertilizer Cooperative L   | imited Phu  | lpur unit,               |
| 2. Type of Industry: 3. Sampling Location: 4. Monitoring done by: 5. Weather Condition: 6. Lab Code: |                           | Fertilizer industry Near CORDET Mr. Vipin,& Mr.Sunil Clear Sky PCS23/102/1481  |               | 7.Method of Sampling:<br>8.Date of Monitoring:<br>9.Sample Receipt in Lab:<br>10.Date of Analysis:<br>11.Sample Analyzed By: | PCS/WI/SAMP/20<br>11/10/2023-12/10/202<br>13/10/2023<br>13/10/2023 - 14/10/2<br>Mr. Rohit Yaday |                          |
| Sl. Parameters<br>No.  |                           |  | Unit          | Method of<br>Measurement   | Result  | Standards*               |
| 1  | Particulate Matter        | (PM 10)  | $(\mu g/m^3)$ | IS: 5182 Part (23)   | 58.0  | 100                      |
| 2  | Particulate Matter        |  | (µg/m')       | IS 5182 (Part-24)  | 37.0  | 60                       |
| 3  | Sulphur Dioxide (         | THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME | (µg/m³)       | IS: 5182 (Part-2)  | 10.3  | 80                       |
| 4  | Nitrogen Dioxide          |  | (µg/m²)       | 1S: 5182 (Part 6)  | 18.5  | 80                       |
| 5  | Ammonia(NH <sub>3</sub> ) |  | (µg/m³)       | IS: 5182 (Part-25)   | 32.0  | 400                      |

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|   |            | Test Report for   | Ambient Air Quality  | /         |  |  |
|---|------------|---|--|-----------|--|--|
| Report No.<br>PCS/AAQ/03/2023   |            | Reference No.         Issue Dat           PCS/IFFCO/03/2023         25/10/202 |  |           |  |  |
| 1. Name & Address of Industry:  |            | M/s Indian Farmer<br>Prayagraj  | s Fertilizer Cooperative   |           |  |  |
| 2.Type of Industry: 3.Sampling Location: 4. Monitoring done by: 5. Weather Condition: 6.Lab Code: |            | Fertilizer industry Near CORDET Mr. Vipin,& Mr.Sunil Clear Sky PCS23/102/1481 | 7.Method of Sampling:<br>8.Date of Monitoring:<br>9.Sample Receipt in Lab:<br>10.Date of Analysis:<br>11.Sample Analyzed By: | 13/10/202 | 23-12/10/2023<br>23<br>23 - 14/10/2023 |  |
| SI. No.   | Parameters | Unit  | Reference Method   | Result    | Standards*                             |  |
| 1   | Urea       | $(\mu g/m^3)$   | Micro Kjeldahl Method  | 23.0      | -                                      |  |
| 2   | HC         | (μg/ m³)  | GC FID   | ND*       | -                                      |  |

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#### Test Report for Ambient Air Quality

ULR-TC824123000001660



|   |                    |                   |  |                           |                         | 14-6541    |
|---|--------------------|-------------------|--|---------------------------|-------------------------|------------|
| Report No.  |                    |                   |  | Reference No.             |                         |            |
| PCS/  | /AAQ/04/2023       |                   | PC   | PCS/IFFCO/03/2023         |                         |            |
| 1. Name & Address of M/s In                                       |                    | M/s Inc           | ndian Farmers Fertilizer Cooperative Limited Phulp |                           |                         | lpur unit, |
| Industry: Pr  |                    | Prayagi           | 'aj  | •                         |                         |            |
| 2. Type of Industry: Fertiliz                                     |                    | Fertilizer        | Fertilizer industry 7.Method of Sampling:          |                           | PCS/WI/SAMP/20          |            |
| Sampling Location:     Monitoring done by:     Weather Condition: |                    | Gate No.          | . 4  | 8.Date of Monitoring:     | 11/10/2023-12/10/2023   |            |
|   |                    |                   |  | 9. Sample Receipt in Lab: | 13/10/2023              |            |
|   |                    | Clear Sky         |  | 10.Date of Analysis:      | 13/10/2023 - 14/10/2023 |            |
| 6.Lab   | Code:              | PCS23/1           | 02/1482  | 11.Sample Analyzed By:    | Mr. Rohit Yadav         |            |
| SL<br>No.   | Parameters         |                   | Unit   | Method of<br>Measurement  | Result                  | Standards* |
| 1   | Particulate Matter | (PM 10)           | $(\mu g/m^3)$                                      | IS: 5182 Part (23)        | 54.0                    | 100        |
| 2   | Particulate Matter | (PM 2.5)          | $(\mu g/m^3)$                                      | IS 5182 (Part-24)         | 34.0                    | 60         |
| 3   | Sulphur Dioxide (5 | SO <sub>2</sub> ) | (µg/ m³)   | 1S: 5182 (Part-2)         | 15.4                    | 80         |
| 4   | Nitrogen Dioxide   | $(NO_2)$          | (µg/ m³)   | IS: 5182 (Part 6)         | 27.6                    | 80         |
| 5   |                    |                   | (µg/m³)  | IS: 5182 (Part-25)        | 34.0                    | 400        |

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24.0

ND\*

GSTIN - 09AAJFP5925G1ZY

|  | Test Report for  | Ambient Air Quality  | y                      |                 |
|--|--|--|------------------------|-----------------|
| Report No.<br>PCS/AAQ/04/2023  | RG<br>PCS/   | Issue Date<br>25/10/2023   |                        |                 |
| 1. Name & Address of Industry:   | M/s Indian Farmer<br>Prayagraj   | s Fertilizer Cooperative   | Limited Pł             | ulpur unit,     |
| 2. Type of Industry: 3. Sampling Location: 4. Monitoring done by: 5. Weather Condition: 6. Lab Code: | Fertilizer industry  Gate No. 4  Mr. Vipin,& Mr.Sunil  Clear Sky  PCS23/102/1482 | 7.Method of Sampling:<br>8.Date of Monitoring:<br>9.Sample Receipt in Lab:<br>10.Date of Analysis:<br>11.Sample Analyzed By: | 11/10/20:<br>13/10/20: | 23 - 14/10/2023 |
| Sl. No. Parameters   | Unit   | Reference Method   | Result                 |                 |

Micro Kjeldahl Method

GC FID

HC \*NAAQS CPCB Notification, dated 18 11 2009

1

2

Urea

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(µg/m3)

(µg/m³)

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Managing Director

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GSTIN - 09AAJFP5925G1ZY

#### Test Report for Ambient Air Quality

ULR-TC824123000001661



| Report No.<br>PCS/AAQ/05/2023   |                           |  | PC            | Reference No.<br>CS/IFFCO/03/2023  | • •  | Issue Date<br>25/10/2023 |  |
|---|---------------------------|--|---------------|--|--|--------------------------|--|
| I. Name & Address of M/s In Industry: Prayag  |                           |  |               | s Fertilizer Cooperative L   | imited Phu   | lpur unit,               |  |
| <ul><li>2.Type of Industry:</li><li>3.Sampling Location:</li><li>4. Monitoring done by:</li><li>5. Weather Condition:</li><li>6.Lab Code:</li></ul> |                           | Fertilizer industry Kendriya Vidyalaya Mr. Vipin,& Mr.Sunil Clear Sky PCS23/102/1483 |               | 7.Method of Sampling:<br>8.Date of Monitoring:<br>9.Sample Receipt in Lab:<br>10.Date of Analysis:<br>11.Sample Analyzed By: | PCS/WI/SAMP/20<br>11/10/2023-12/10/202<br>13/10/2023<br>13/10/2023 - 14/10/20<br>Mr. Rohit Yaday |                          |  |
| SI.<br>No.  | Parameters                |  | Unit          | Method of<br>Measurement   | Result   | Standards*               |  |
| 1   | Particulate Matter        | (PM 10)  | $(\mu g/m^3)$ | IS: 5182 Part (23)   | 55.0   | 100                      |  |
| 2   | Particulate Matter        | (PM 2.5)   | $(\mu g/m^3)$ | IS 5182 (Part-24)  | 35.0   | 60                       |  |
| 3   | Sulphur Dioxide (S        | SO <sub>2</sub> )  | $(\mu g/m^3)$ | IS: 5182 (Part-2)  | 21.7   | 80                       |  |
| 4   | Nitrogen Dioxide          | $(NO_2)$   | $(\mu g/m^3)$ | IS: 5182 (Part 6)  | 24.9   | 80                       |  |
| 5   | Ammonia(NH <sub>3</sub> ) |  | (μg/ m³)      | IS: 5182 (Part-25)   | 35.0   | 400                      |  |

\*NAAQS CPCB Nonfication, dated 18 11 2009

Note:

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

| Report No.  |            | R  |  | Issue Date  |            |  |
|---|------------|--|--|---|------------|--|
| PCS/A   | AQ/05/2023 | PCS/   |  | 25/10/2023  |            |  |
| 1. Name & Address of Industry:  |            | M/s Indian Farmer<br>Prayagraj                                     | s Fertilizer Cooperative   |   | •          |  |
| 2.Type of Industry:<br>3.Sampling Location:<br>4. Monitoring done by: |            | Fertilizer industry<br>Kendriya Vidyalaya<br>Mr. Vipin,& Mr. Sunil | 7.Method of Sampling:<br>8.Date of Monitoring:<br>9.Sample Receipt in Lab: | PCS/WI/SAMP/20<br>11/10/2023-12/10/2023<br>13/10/2023 |            |  |
| 5. Weather Condition : 6.Lab Code:                                    |            | Clear Sky<br>PCS23/102/1483  | 10.Date of Analysis:<br>11.Sample Analyzed By:                             | 13/10/2023 - 14/10/2023<br>Mr. Rohit Yadav            |            |  |
| Sl. No.   | Parameters | Unit   | Reference Method   | Result  | Standards* |  |
| 1   | Urea       | $(\mu g/m^3)$  | Micro Kjeldahl Method  | 23.0  | -          |  |
| 2   | HC         | $(\mu g/m^3)$  | GC FID   | ND*   | -          |  |

\*NAAQS CPCB Notification, dated 18:11.2009

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#### Test Report for Noise Monitoring

ULR-TC824123000001662



| Report  | No             | D                         | Reference No.            | Issue Date            |  |  |
|---|----------------|---------------------------|--------------------------|-----------------------|--|--|
|   | 0/01/2023      |                           | /IFFCO/03/2023           | 25/10/2023            |  |  |
| Name of Industry M/s Indian Farmers Fertilize |                |                           |                          |                       |  |  |
|   |                |                           |                          |                       |  |  |
|   | f Industry     | Fertilizer Industry       | 7.Method of Sampling     | PCS/WI/SAMP/20        |  |  |
|   | ng Location    | S. No. 1-13               | 8.Date of Monitoring     | 11/10/2023-12/10/2023 |  |  |
|   | oring done by  | Mr. Vipin & Mr. Sunil     | 9. Sample Receipt in Lab | 13/10/2023            |  |  |
|   | er Condition   | Clear Sky                 | 10.Date of Analysis      | -                     |  |  |
| 6.Lab Co                                      |                | PCS23/102/1492-1504       | 11.Sample Analyzed By    | Mr. Vipin             |  |  |
|   | Reference M    | ethod: IS-9989, 1981      |                          |                       |  |  |
| S. No.  | Location       |                           | N                        | oise dB(A)            |  |  |
| 1   | Urea-1 Contro  | l Room                    |                          | 55.2                  |  |  |
| 2   | Ammonia-1 C    | ontrol Room               |                          | 57.6                  |  |  |
| 3   | I.G. (Plant-)1 |                           |                          | 59.2                  |  |  |
| 4   | 31 Compresso   | r Control Room            |                          | 63.8                  |  |  |
| 5   |                | r Control Room            |                          | 64.0                  |  |  |
| 6   |                | ontrol Room of Ammonia II |                          | 61.2                  |  |  |
| 7   |                | or (K.T.I-2) Control Room |                          | 65.7                  |  |  |
| 8   | Power Plant (  | Control Room              |                          | 60.5                  |  |  |
| 9   | Time Office    |                           |                          | 56.8                  |  |  |
| 10  | Railway Gate   |                           |                          | 53.2                  |  |  |
| 11  | Ammonia Stor   |                           |                          | 56.8                  |  |  |
| 12  | Behind R.O Pl  | ant.                      |                          | 57.6                  |  |  |
|   | Guard Pond     |                           |                          | 37.0                  |  |  |
|   | rd (Noise)     |                           |                          | 76                    |  |  |
| Industrial area                               |                |                           |                          | 75                    |  |  |
|   | rcial area     |                           |                          | 65                    |  |  |
|   | tial area      |                           |                          | 55                    |  |  |
| Silence Zone                                  |                |                           |                          | 50                    |  |  |

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



#### ULR-TC824123000001692

| Report No.<br>PCS/WWQ/01/2023  | F  | Reference ?<br>PCS/IFFCO/03 |  |                                  | Issue Da<br>25/10/202  |  |
|--|--|-----------------------------|--|----------------------------------|--|--|
| 1.Name & address of Industry:  | M/s Indian Farmers Fertilizer  | Cooperative                 | Limited Phulpur Unit, All  | lahabad U.P                      |  |  |
| <ul><li>2. Type of Industry:</li><li>3. Sampling Location:</li><li>4. Sampling Done by:</li><li>5. Weather Condition:</li><li>6. Lab Code;</li></ul> | Fertilizer Guard Pond Inlet Mr Vipin & Mr Sunil Clear Sky PCS23/187/1208 |                             | Method of Sampling Date of Sampling: Sample Received in Lab: Date of Testing: Analyzed by: | 12/10/20<br>13/10/20<br>14/10/20 | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023 - 20/10/2023<br>Ms Alka Singh |  |
| S. N Parameters  |  | Unit                        | Reference Method 2   | 3 <sup>rd</sup> Edition          | Results  |  |
| 1. pH  |  | -                           | APHA 4500H+-B  |                                  | 7.10   |  |
| 2 Temperature  |  | 0(:                         | APHA2550 B   |                                  | 30   |  |

| S. N | Parameters                    | Unit  | Reference Method 23rd Edition | Results   |
|------|-------------------------------|-------|-------------------------------|-----------|
| 1.   | pH                            |       | APHA 4500H+-B                 | 7.10      |
| 2.   | Temperature                   |       | APHA2550 B                    | 30        |
| 3.   | Color                         | Hazen | APHA 2120B                    | 10.0      |
| 4.   | Odour                         | -     | APHA 2150B                    | Odourless |
| 5.   | TDS                           | mg/l  | APHA 2540C                    | 1930      |
| 6.   | TSS                           | mg/l  | APHA 2540D                    | 38.0      |
| 7.   | Chloride as CT                | mg/l  | API1A4500-CI-B                | 1037      |
| 8.   | COD                           | mg/l  | APHA 5220-C                   | 46.0      |
| 9.   | BOD (3 Days at 27°C)          | mg/l  | TS 3025(Part 44)              | 23.0      |
| 10.  | Total Ammonical Nitrogen as N | mg/l  | APHA 4500 NH <sub>3</sub> -C  | 24.8      |
| 11.  | Total Kjeldahl Nitrogen as N  | mg/l  | APHA 4500 Norg-B              | 34.18     |
| 12.  | Free Ammonia as N             | ing/l | APHA 4500 NH <sub>3</sub> -C  | 0.25      |
| 13.  | Phosphate as P                | mg/I  | APHA 4500 P-D                 | 1.12      |
| 14.  | Nitrate as N                  | mg/I  | APHA4500-NO3-B                | 2.40      |
| 15.  | Fluoride as F                 | mg/l  | APHA 4500 F-D                 | 1.08      |
| 16.  | Total Residual Chlorine       | mg/l  | APIIA 4500 CI-B               | < 0.1     |
| 17.  | Oil & Grease                  | mg/l  | APHA 5200 B                   | <2.0      |
| 18.  | Zinc as Zn                    | mg/l  | APHA 3111 B                   | 0.072     |
| 19.  | Total Chromium as Cr          | mg/l  | APHA3111-B                    | < 0.05    |

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<sup>\*</sup>Prece NIB-(1 0mg/l BDI \*= Below Detection Limit
\*\*Standard as por Schedule VI inserted by Rule 2(d) of the Environment (Protection) Second Amendment Rules. 1993 notified vide G 8 R. 422(E) dated 19 05 1993, published in the GazetteNo 174 dated 19 05 1993.

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



ULR-TC824123000001693

|   | rt No.<br>WWQ/02/2023 |  |  | erence No.<br>FCO/03/2023                |   | Issue Date<br>25/10/2023 |
|---|-----------------------|--|--|--|---|--------------------------|
|   | ne & address          | M/s Indian Farmers Ferti                         | lizer Coop                               | erative Limited Phulpur Unit, Al         | lahabad UP                                  |                          |
| of Industry:  2. Type of Industry: 3. Sampling Location: 4. Sampling Done by: |                       | Fertifizer Guard Pond Outlet Mr Vipin & Mr Sunil | Guard Pond Outlet<br>Mr Vipin & Mr Sunil |  | As per Standard<br>12/10/2023<br>13/10/2023 |                          |
|   | ather Condition :     | Clear Sky<br>PCS23/187/1209                      |  | 10. Date of Testing:<br>11. Analyzed by: | 14/10/2023- 20/<br>Ms Alka Singh            | 10/2023                  |
| S. N  | Parameters            | 110023 107/1207                                  | Unit                                     | Reference Method 23rd Editi              |   | Standard*                |
| 1.  | рН                    | 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1           |  | APHA 4500H+-B                            | 7.00  | 6.5 -8.5                 |
| 2.  | Temperature           |  | 100                                      | APHA2550 B                               | 30  |                          |
| 3.  | Color                 |  | Hazen                                    | APHA 2120B                               | 5.0   | -                        |
| 4.  | Odour                 |  | -  | APHA 2150B                               | Odourless                                   |                          |
| 5.  | TDS                   |  | mg/l                                     | APHA 2540C                               | 1890  | -                        |
| 6.  | ISS                   |  | mg/l                                     | APHA 2540D                               | 33.0  | 100                      |
| 7.  | Chloride as Cl        |  | mg/l                                     | APHA4500-Cl-B                            | 965   |                          |
| 8.  | COD                   |  | mg/l                                     | APHA 5220-C                              | 45.0  |                          |
| 9.  | BOD (3 Days at 27     | (C)  | mg/l                                     | IS 3025(Part 44)                         | 21.0  |                          |
| 10.   | Total Ammonical N     | litrogen as N                                    | mg/l                                     | APHA 4500 NH <sub>3</sub> -C             | 22.1  | 50                       |
| 11.   | Total Kjeldahl Nitre  | ogen as N  | mg/l                                     |  | 34.46                                       | 75                       |
| 12.   | Free Ammonia as N     | V  | mg/l                                     | APHA 4500 NH <sub>3</sub> -C             | 0.20  | 2.0                      |
| 13.   | Phosphate as P        |  | mg/l                                     | APHA 4500 P-D                            | 0,69  |                          |
| 14.   | Nitrate as N          |  | mg/l                                     | APHA4500-NO3-B                           | 1.85  | 10.0                     |
| 15.   | Fluoride as F         |  | mg/l                                     | APLIA 4500 F-D                           | 0.97  | 2.0                      |
| 16.   | Total Residual Chle   | orine  | mg/l                                     | APHA 4500 CI-B                           | <0.1  | 1.0                      |
| 17.   | Oil & Grease          |  | mg/l                                     | APHA 5200 B                              | <2.0  | 10                       |
| 18.   | Zinc as Zn            |  | mg/1                                     | APHA 3111 B                              | 0.051                                       | 5.0                      |
| 19.   | Total Chromium as     | Cr   | mg/l                                     | APHA3111-B                               | < 0.05                                      | 2.0                      |

\*Free-NHS 1 fingf BDL\* - Below Detection 1 and
\*Free-NHS 1 fingf BDL\* - Below Detection 1 and
\*Standard as per Schedule VI inserted by Rule 2(d) of the Environment (Protection) Second Amendment Rules, 1993 nonfield vide G.S.R. 422(E) dated 19 05 1993, published in the GazetteNo 174 dated 19 05 1993.

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#### Test Report for R.O Outlet Water

ULR-TC824123000001690



| Report No.           |                               |             |  | Reference ! | No.                             | Issue Date   |  |  |
|----------------------|-------------------------------|-------------|--|-------------|---------------------------------|--|--|--|
| PCS/RO/02/2023       |                               |             | PCS/IFFCO/03/2023 2  |             |                                 |  |  |  |
| L.Nam                | e & Address of Industr        | y M/s India | M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad. |             |                                 |  |  |  |
| 2.Туре               | of Industry                   | Fertilize   |  | 8. Method   | l of Sampling                   | As per Standard Method                               |  |  |
| 3. Sam               | ple Collected by              | Mr Vipir    | a & Mr Sunil   | 9. Date of  | 'sampling:                      | 12/10/2023   |  |  |
| 4.Samı               | oling Location                | R.O Ou      | tlet Water   |             | le receipt in lab               | 13/10/2023   |  |  |
| 5. Weather Condition |                               | Clear Sk    | y  | 11. Date    | of Analysis                     | 14/10/2023- 20/10/2023                               |  |  |
| 6. Lab Code          |                               | PCS23/1     | PCS23/187/1206   |             | le Analyzed By                  | Ms Shivani Chaturvedi                                |  |  |
| 7. Qua               | ntity of Sample               | 2 liter     |  |             |                                 |  |  |  |
| SI.                  | Parameters                    | Unit        | Reference  | Result      | BI                              | S Standard IS 10500: 2012                            |  |  |
| No.                  |                               |             | Method*  |             | Requirement<br>(Acceptable limi | Permissible limit in the absence of alternate source |  |  |
| 1.                   | рН                            | -           | APHA 4500H+ B  | 7.78        | 6.5 - 8.5                       | NR**   |  |  |
| 2.                   | Conductivity                  | μmhos/cm    | APHA 2510-B  | 341         |                                 |  |  |  |
| 3.                   | TDS                           | mg/l        | APHA 2540 C  | 197.8       | 500                             | 2000   |  |  |
| 4.                   | Hardness as CaCO <sub>3</sub> | mg/I        | APHA 2340 C  | 35.2        | 200                             | 600  |  |  |
| 5.                   | Chloride as Cl                | mg/l        | APHA 4500-CLB  | 54.7        | 250                             | 1000   |  |  |
| 6.                   | Total Ammonical<br>Nitrogen   | mg/l        | APHA 4500 Norg-B   | 0.34        | *                               | -  |  |  |
| 7.                   | Nitrate as NO <sub>3</sub>    | mg/l        | APHA 4500-NO <sub>1</sub> .E   | 4.1         | 45                              | NR**   |  |  |

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

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

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### Test Report of Waste Water

ULR-TC824123000001691



| Report No.<br>PCS/WWQ/01/2023    |  | Refer<br>PCS/IFF   | Issue Date<br>25/10/2023        |   |   |
|----------------------------------|--|--------------------|---------------------------------|---|---|
| 1.                               | Name & Address of In   | ndustry:           | M/s Indian Farm<br>Allahabad.UP | ed Phulpur Unit,  |   |
| 2.<br>3.<br>4.<br>5.<br>6.<br>7. | Type of Industry<br>Sampling Location<br>Sample Collected by<br>Analyzed by<br>Weather Condition<br>Method of Sampling | Ms. Alk<br>Clear S | tlet<br>n & Mr Sunil<br>a Singh | 8. Lab Code 9. Date of Sampling 10. Sample Receipt in Lab 11. Date of Testing | PC\$23/187/1207<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023 |

| S.<br>No. | Parameter                    | Units | Reference<br>Method               | Results | Standard* |
|-----------|------------------------------|-------|-----------------------------------|---------|-----------|
| 1.        | pH                           | -     | APHA 4500H+ - B                   | 8.36    | 6.5-9.0   |
| 2.        | Total Suspended Solids (TSS) | mg/l  | APHA 2540-D                       | 14.3    | 100       |
| 3.        | BOD (3days at 27°C)          | mg/l  | IS:3025 (Part 44) 1993 RA<br>2009 | 8.0     | 30        |

\*Standard as per sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), Notified vide G S R 1265 (E) dated 13 10 2017, published in the Gazette No. 843 dated 13 10 2017.

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Report No.

3.

PCS/WWQ/01(a)/2023

Type of Industry

Sampling Location

Name & Address of Industry:

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#### Test Report of Waste Water Reference No. Issue Date PCS/IFFCO/02/2023 25/10/2023 M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.UP Fertilizer 8. Lab Code PCS23/187/1207 STP Outlet 9. Date of Sampling 12/10/2023

| 6. Weather Condition | Ms. Ajay Kumar<br>Clear Sky | 10. Sample Receipt in Lab 11. Date of Testing | 13/10/2023<br>14/10/2023 - 20/10/2023 |
|----------------------|-----------------------------|---|---------------------------------------|
|----------------------|-----------------------------|---|---------------------------------------|

| No. Parameter     | Units   | Reference<br>Method | Results | Standard <sup>2</sup> |
|-------------------|---------|---------------------|---------|-----------------------|
| 1 Feacal coliform | MPN/100 | APHA 9221           | 500     | <1000                 |

<sup>\*</sup>Standard as per sections 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986), Notified vide G.S.R. 1265 (E) ditted 13 10,2017, published in the Gazette No. 843 dated 13 10 2017.

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#### Test Report for Filter Raw Water

ULR-TC824123000001689



| Repor  | t No.                                      |            | La                           | Reference                                  | No.                | Issue Date                  |  |  |
|--------|--|------------|------------------------------|--|--------------------|-----------------------------|--|--|
| PCS/F  | RW/01/2023                                 |            | PCS                          | PCS/IFFCO/03/2023 25/10/202                |                    |                             |  |  |
| 1.Nam  | e & Address of Industr                     | y M/s Indi | an Farmers Fertilizer Co     | operative Limited Phulpur Unit, Allahabad. |                    |                             |  |  |
| 2.Туре | of Industry                                | Fertilize  |                              |  | i of Sampling      | As per Standard Method      |  |  |
| 3. Sam | ple Collected by                           | Mr Vipi    | n & Mr Sunil                 |  | sampling:          | 12/10/2023                  |  |  |
| 4.Sam  | pling Location                             | Filter R   | aw Water                     |  | le receipt in lab  | 13/10/2023                  |  |  |
| 5.Wea  | ther Condition                             | Clear Sk   | y                            |  | of Analysis        | 14/10/2023-20/10/2023       |  |  |
| 6. Lab | Code                                       | PCS23/1    | 87/1205                      | 12. Samp                                   | le Analyzed By     | Ms Shivani Chaturvedi       |  |  |
| 7. Qua | ntity of Sample                            | 2 liter    | 2 liter                      |  |                    |                             |  |  |
| SI.    | Parameters                                 | Unit       | Reference                    | Result                                     | BIS                | Standard IS 10500: 2012     |  |  |
| No.    |  |            | Method*                      |  | Requirement        | Permissible limit in the    |  |  |
|        |  |            |                              |  | (Acceptable limit) | absence of alternate source |  |  |
| 1.     | pH   | -          | APHA 4500H+ B                | 7.72                                       | 6.5 - 8.5          | NR**                        |  |  |
| 2.     | Conductivity                               | μmhos/em   | APHA 2510-B                  | 960  | * **               | ***                         |  |  |
| 3.     | Turbidity                                  | NTU        | APHA 2130 B                  | 0.18                                       | 1                  | 5                           |  |  |
| 4.     | TDS  | mg/l       | APHA 2540 C                  | 570  | 500                | 2000                        |  |  |
| 5.     | Hardness as CaCO,                          | mg/l       | APHA 2340 C                  | 326  | 200                | 600                         |  |  |
| 6.     | Alkalinity as CaCO:                        | mg/l       | APHA 2320 B                  | 402  | 200                | 600                         |  |  |
| 7.     | Chloride as CI                             | mg/l       | APHA 4500-CLB                | 56.0                                       | 250                | 1000                        |  |  |
| 8.     | Sulphate as SO <sub>4</sub>                | mg/l       | APHA 4500-SO <sub>4</sub> ,E | 54.0                                       | 200                | 400                         |  |  |
| 9.     | Nitrate as NO:                             | mg/l       | APHA 4500-NO3,E              | 1.84                                       | 45                 | NR**                        |  |  |
| 10.    | Calcium as Ca                              | mg/l       | APHA 3500-Ca,B               | 52.8                                       | 75                 | 200                         |  |  |
| 11.    | Magnesium as Mg                            | mg/l       | APHA 3500-Mg,B               | 47.1                                       | 30                 | 100                         |  |  |
| 12.    | Sodium as Na                               | mg/l       | APHA 3500-Na.B               | 98.0                                       | -                  |                             |  |  |
| 13.    | Potassium as K                             | mg/I       | APHA 3500-K,B                | <10.0                                      |                    | -                           |  |  |
| 14.    | Dissolved Silica as (SiO <sub>2</sub> )    | mg/l       | APHA 4500-Si-C               | 30.2                                       | . #                |                             |  |  |
| 15.    | Colloidal Silica as<br>(SiO <sub>2</sub> ) | mg/l       |                              | <0.1                                       | -                  | -                           |  |  |

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

Note. It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under acceptable, render the water not sintable, 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.

Note:

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5. No deviation as per the Standard Method.

Authorized Signatory

(Dr. Divya Misra) Managing Director

"End of this Test Report"



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(An ISO 14001:2015, ISO 9001-2015 and ISO 45001:2018 Certified Organization)

Address 12, Visbuupuri, Church Road, Aliganj, Lucknow-226024

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Tel 0522 4002545, Mobile: 09415518818,

GSTIN - 09AAJFP5925G1ZY

#### Test Report for Borewell Water Quality

ULR-TC824123000001671

Nitrate as NO:

Calcium as Ca

Sodium as Na

Potassium as K

Chromium as Cr

Copper as Cu

Iron as Fe

Nickel as Ni

Lead as Pb

Zinc as Zn

Magnesium as Mg

Dissolved Silica(SiO<sub>2</sub>)

10.

11.

12.

13.

14.

15.

16.

17

18.

19.

20

Note:



| Repo | ort No.                         |             | Lab I                        | Reference No | ),                    | Issue Date                  |
|------|---------------------------------|-------------|------------------------------|--------------|-----------------------|-----------------------------|
| PCS/ | /BWQ/01/2023                    |             | PCS/II                       | FFCO/03/202  | 23                    | 25/10/2023                  |
| 1.   | Name & Address of Indu          | astry M/s I | ndian Farmers Fertilizer     | Cooperative  | Limited Phulpur Unit, | Allahabad.                  |
| 2.   | Type of Industry                | Ferti       | izer                         | 8. Meth      | od of Sampling        | As per Standard Method      |
| 3.   | Sample Collected by             | MrV         | ipin & Mr Sunil              | 9. Date      | of sampling           | 12/10/2023                  |
| 4.   | Sampling Location               | Bore        | well-1                       | 10. Sam      | iple receipt in lab   | 13/10/2023                  |
| 5.   | Weather Condition               | Clear       | Sky                          | 11. Date     | e of Analysis         | 14/10/2023 - 20/10/2023     |
| 6.   | 6. Lab Code                     |             | 23/187/1187                  | 12. Sam      | iple Analyzed By      | Ms Shivani Chaturvedi       |
| 7.   | Quantity of Sample              | 2 lite      |                              |              |                       |                             |
| SI.  | Parameters                      | Unit        | Reference                    | Result       | BIS St                | andard IS 10500: 2012       |
| No.  |                                 |             | Method*                      |              | Requirement           | Permissible limit in the    |
|      |                                 |             |                              |              | (Acceptable limit)    | absence of alternate source |
| 1.   | pH                              | -           | APHA 4500H+ B                | 7.54         | 6.5 - 8.5             | NR**                        |
| 2.   | Conductivity                    | μmhos/cm    | APHA 2510-B                  | 1210         | ***                   |                             |
| 3.   | Turbidity                       | NTU         | APHA 2130 B                  | 0.22         | 1                     | 5                           |
| 4.   | TDS                             | mg/l        | APHA 2540 C                  | 740.0        | 500                   | 2000                        |
| 5.   | Hardness as CaCO <sub>3</sub>   | mg/l        | APHA 2340 C                  | 372.0        | 200                   | 600                         |
| 6.   | Alkalinity as CaCO <sub>3</sub> | mg/l        | APHA 2320 B                  | 445.0        | 200                   | 600                         |
| 7.   | Chloride as C1                  | mg/l        | APHA 4500-CI,B               | 116.0        | 250                   | 1000                        |
| 8.   | Sulphate as SO <sub>4</sub>     | mg/l        | APHA 4500-SO <sub>4</sub> ,E | 92.0         | 200                   | 400                         |
|      |                                 |             |                              |              |                       |                             |

54.0

57.6

153

0.013

< 0.05

31.60

< 0.3

0.02

:0.01

0.048

< 0.02

75

0.05

0.05

0.3

0.02

0.01

5

21. Manganese as Mn mg/l APHA 3111-Mn,B \*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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mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

mg/I

mg/l

mg/l

mg/l

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APHA 4500-NO LE

APHA 3500-Ca,B

APHA 3500-Mg,B

APHA 3500-Na,B

APHA 3500-K,B APHA 3111-Cu, B

APHA 4500-Si-C

APHA 3111-Cr, B

APHA 3111-Fe,B

APHA 3111-Ni, B

APHA 3111-Pb.B

APHA 3111-Zn, D

5. No deviation as per the Standard Method

Authorized Signatory

NR\*\*

200

100

-

1.5

NR\*\*

NR\*\*

NR \*\*

NR \*\*

15

0.3

(Dr. Divya Misra) Managing Director

"End of this Test Report

Page Lef 2



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|  |  | Tes  | st Report for Bore      | well Wat                      | er Quality  |   |
|--|--|--|-------------------------|-------------------------------|---|---|
| Repo   | ort No.  |  | Lab Re                  | ference No                    | ).  | Issue Date  |
| and the last of th | /BWQ/01(a)/2023  |  | PCS/IFF                 | CO/03/202                     | .3  | 25/10/2023  |
| 1.   | Name & Address of Industry   | M/s India  | m Farmers Fertilizer Co | operative.                    | Limited Phulpur Unit,   | Allahabad.  |
| 3. 1<br>4. 1<br>5. 1   | Type of Industry Sample Collected by Sampling Location Weather Condition Lab Code Quantity of Sample | Fertilizer<br>Mr Vipin<br>Borewel<br>Clear Sk<br>PC\$23/1<br>2 liter | ı & Mr Sunil<br>I-1     | 9. Date<br>10. San<br>11. Dat | nod of Sampling<br>of sampling<br>inple receipt in lab<br>te of Analysis<br>inple Analyzed By | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |
| SI.  | Parameters   | Unit   | Reference               | Result                        | BIS St  | andard IS 10500: 2012   |
| No.  |  |  | Method*                 |                               | Requirement (Acceptable limit)  | Permissible limit in the<br>absence of alternate source   |
| 1.   | Vanadium as V  | mg/l   | APHA 3111-V,B           | < 0.02                        | -   | -   |

1. Vanadium as V mg/l
\*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 rolerated in the absence of an alternative source but up to the limits indicated under permissible, lumin 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

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GSTIN - 09AAJFP5925GIZY

#### Test Report for Borewell Water Quality



ULR-TC824123000001672

| Repo   | ort No.                         | in a contract the second  | Lab I                    | Reference No  | ).   | Issue Date  |  |  |  |
|--|---------------------------------|---|--------------------------|---|--|---|--|--|--|
| PCS/   | BWQ/02/2023                     |   | PCS/H                    | FFCO/03/2023 25/10/2  |  |   |  |  |  |
| 1.   | Name & Address of Indus         | stry M/s I  | ndian Farmers Fertilizer | Cooperative   | Cooperative Limited Phulpur Unit, Allahabad. |   |  |  |  |
| 2. Type of Industry 3. Sample Collected by 4. Sampling Location 5. Weather Condition 6. Lab Code 7. Quantity of Sample |                                 | ollected by Mr Vipin & Mr Sunil Borewell-2 Condition Clear Sky PCS23/187/1188 |                          | 8. Method of Sampling 9. Date of sampling 10. Sample receipt in lab 11. Date of Analysis 12. Sample Analyzed By |  | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |  |  |  |
| SI.  | Parameters                      | Unit  | Reference                | Result  | BIS S  | tandard IS 10500: 2012  |  |  |  |
| No.  |                                 |   | Method*                  |   | Requirement<br>(Acceptable limit)            | Permissible limit in the absence of alternate source  |  |  |  |
| 1.   | pH                              | -   | APHA 4500H+ B            | 7.60  | 6.5 - 8.5                                    | NR**  |  |  |  |
| 2.   | Conductivity                    | μmhos/cm  | APHA 2510-B              | 1115  |  |   |  |  |  |
| 3.   | Turbidity                       | NTU   | APHA 2130 B              | 0.24  | I  | 5   |  |  |  |
| 4.   | TDS                             | mg/l  | APHA 2540 C              | 675   | 500  | 2000  |  |  |  |
| 5.   | Hardness as CaCO <sub>3</sub>   | mg/l  | APHA 2340 C              | 338   | 200  | 600   |  |  |  |
| 6.   | Alkalinity as CaCO <sub>3</sub> | mg/I  | APHA 2320 B              | 418   | 200  | 600   |  |  |  |
| 7.   | Chloride as CI                  | mg/l  | APHA 4500-CI,B           | 100   | 250  | 1000  |  |  |  |
| 8.   | Sulphate as SO <sub>4</sub>     | mg/l  | APHA 4500-SO4,E          | 106   | 200  | 400   |  |  |  |
| 9.   | Nitrate as NO <sub>3</sub>      | mg/l  | APHA 4500-NO3,E          | 2.4   | 45   | NR**  |  |  |  |
| 10.  | Calcium as Ca                   | mg/l  | APHA 3500-Ca,B           | 49.0  | 75   | 200   |  |  |  |
| 11.  | Magnesium as Mg                 | mg/l  | APHA 3500-Mg,B           | 52.4  | 30   | 100   |  |  |  |
| 12.  | Sodium as Na                    | mg/l  | APHA 3500-Na,B           | 158   | *  | -   |  |  |  |
| 13.  | Potassium as K                  | mg/l  | APHA 3500-K,B            | <10.0   |  | -   |  |  |  |
| 14.  | Copper as Cu                    | mg/l  | APHA 3111-Cu, B          | < 0.05  | 0.05   | 1.5   |  |  |  |
| 15.  | Dissolved Silica(SiO2)          | mg/l  | APHA 4500-Si-C           | 30.5  | -  |   |  |  |  |
| 16.  | Chromium as Cr                  | mg/l  | APHA 3111-Cr, B          | < 0.05  | 0.05   | NR Ht sit   |  |  |  |
| 17.  | Iron as Fe                      | mg/l  | <b>ЛРН</b> Л 3111-Fe,В   | <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**  |  |  |  |
|  |                                 |   |                          |   |  |   |  |  |  |

APHA 3111-Mn.B Manganese as Mn mg/l \*As per APHA/AWWA, 22nd Ed. (2012) \*\* NR No relaxation

Zinc as Zn

Note:

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not surfable, 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 afternative source above which the sources will have to be rejected.

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mg/l

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APHA 3111-Zn, D

5 No deviation as per the Standard Method

Authorized Signatory

15

(Dr. Divva Misra) Managing Director

0.051

0.02

0.1

Page Lof 2



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GSTIN: - 09AAJFP5925G1ZY

|   | Test Report for Bo   | orewell Water Quality   |   |
|---|--|---|---|
| Report No.  | Lab  | Reference No.   | Issue Date  |
| PCS/BWQ/02(a)/2023  | PCS  | 25/10/2023  |   |
| 1. Name & Address of Industry   | M/s Indian Farmers Fertilize   | r Cooperative Limited Phulpur Unit,   | Allahabad.  |
| <ol> <li>Type of Industry</li> <li>Sample Collected by</li> <li>Sampling Location</li> <li>Weather Condition</li> <li>Lab Code</li> <li>Quantity of Sample</li> </ol> | Fertilizer Mr Vipin & Mr Sunil Borewell-2 Clear Sky PCS23/187/1188 2 liter | 8. Method of Sampling 9. Date of sampling 10. Sample receipt in lab 11. Date of Analysis 12. Sample Analyzed By | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturyedi |

BIS Standard IS 10500: 2012 Result SI. Unit Reference Parameters Permissible limit in the Method\* Requirement No. (Acceptable limit) absence of alternate source APHA 3111-V-B < 0.02 Vanadium as V mg/l

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

Note:

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

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5. No deviation as per the Standard Method

**Authorized Signatory** 

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

"End of this Test Report"



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{An ISO 14001-2015, ISO 9001-2015 and ISO 45001-2018 Certified Organization)

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E-mail: prakriti: md@rediffinail.com

[el. 0522-4002545, Mobile, 09415518818,

GSTIN - 09AAJPP5925G1ZY

### Test Report for Borewell Water Quality



ULR-TC824123000001673

| Repo  | rt No.                              |                 | Lab R                        | deference No          | ),                                | Issue Date  |  |
|---|-------------------------------------|-----------------|------------------------------|-----------------------|-----------------------------------|---|--|
| PCS/  | BWQ/03/2023                         |                 | PCS/II                       | FFCO/03/2023 25/10/20 |                                   |   |  |
| THE REAL PROPERTY AND PERSONS ASSESSMENT OF THE PERSONS ASSESSMENT OF | Name & Address of Indus             | stry M/s        | Indian Farmers Fertilizer    | Cooperative           | Limited Phulpur Unit,             | Allahabad.  |  |
|   | Type of Industry                    | Ferti           |                              |                       | od of Sampling                    | As per Standard Method                                  |  |
|   | Sample Collected by                 | Mr              | ipin & Mr Sunil              | 9. Date               | of sampling                       | 12/10/2023  |  |
|   | Sampling Location                   | Boro            | well-3                       | 10. San               | iple receipt in lab               | 13/10/2023  |  |
| 5.  | Weather Condition                   | Clea            | r Sky                        |                       | e of Analysis                     | 14/10/2023- 20/10/2023                                  |  |
|   | Lab Code                            | 10 10 100       | 23/187/1189                  | 12. Sair              | iple Analyzed By                  | Ms Shivani Chaturvedi                                   |  |
|   | Quantity of Sample                  | 2 lite          |                              |                       |                                   |   |  |
| SI.   | Parameters                          | Parameters Unit |                              | Result                |                                   | Standard IS 10500; 2012                                 |  |
| No.   |                                     |                 | Method*                      |                       | Requirement<br>(Acceptable limit) | Permissible limit in the<br>absence of alternate source |  |
| 1.  | pH                                  | -               | APHA 4500H+ B                | 7.40                  | 6.5 - 8.5                         | NR**  |  |
| 2.  | Conductivity                        | jumhos/cm       | APHA 2510-B                  | 2130                  | ***                               |   |  |
| 3.  | Turbidity                           | NTU             | APHA 2130 B                  | 0.27                  | 1                                 | 5   |  |
| 4.  | TDS                                 | mg/I            | APHA 2540 C                  | 1295                  | 500                               | 2000  |  |
| 5.  | Hardness as CaCO <sub>3</sub>       | mg/l            | APHA 2340 C                  | 462                   | 200                               | 600   |  |
| 6.  | Alkalinity as CaCO                  | mg/l            | APHA 2320 B                  | 416                   | 200                               | 600   |  |
| 7.  | Chloride as Cl                      | mg/l            | APHA 4500-CLB                | 193                   | 250                               | 1000  |  |
| 8.  | Sulphate as SO <sub>4</sub>         | mg/I            | APHA 4500-SO <sub>4</sub> ,E | 164                   | 200                               | 400   |  |
| 9.  | Nitrate as NO <sub>3</sub>          | mg/l            | APHA 4500-NO <sub>3</sub> .E | 3.20                  | 45                                | NR**  |  |
| 10.   | Calcium as Ca                       | mg/l            | APHA 3500-Ca,B               | 70.5                  | 75                                | 200   |  |
| 11.   | Magnesium as Mg                     | mg/l            | APHA 3500-Mg,B               | 69.4                  | 30                                | 100   |  |
| 12.   | Sodium as Na                        | mg/l            | APHA 3500-Na,B               | 188                   | -                                 | -   |  |
| 13.   | Potassium as K                      | mg/l            | APHA 3500-K.B                | <10.0                 | -                                 |   |  |
| 14.   | Copper as Cu                        | mg/l            | APHA 3111-Cu, B              | <0.05                 | 0.05                              | 1.5   |  |
| 15.   | Dissolved Silica(SiO <sub>2</sub> ) | mg/I            | APHA 4500-Si-C               | 32.5                  |                                   | -   |  |

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

Chromium as Cr

Manganese as Mn

Iron as Fe

Nickel as Ni

Lead as Pb

Zinc as Zn

16.

17

18.

19

20.

Note:

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.

< 0.05

< 0.3

0.024

< 0.01

0.056

< 0.02

0.05

0.1

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mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

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APHA 3111-Cr, B

APHA 3111-Fe.B

APHA 3111-Ni, B

APHA 3111-Pb,B

APHA 3111-Zn, D

APHA 3111-Mn,B

5. No deviation as per the Standard Method

Authorized Signatory

VR\*\*

NR\*\*

NR\*\*

NR\*\*

15

0.3

(Dr. Divya Misra) Managing Director

End of this Test Report



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Requirement

(Acceptable limit)

| Report N  | 0.  |                   | Lab                    | Reference No.   |                                     | Issue Dat   |  |
|---|---|-------------------|------------------------|---|-------------------------------------|---|--|
| PCS/BW0   | Q/03(a)/2023  |                   | PCS/IFFCO/03/2023      |   |                                     | 25/10/2023  |  |
| 1. Name   | & Address of Industry   | M/s Ind           | ian Farmers Fertilizer | r Cooperative Limit   | ed Phulpur Unit,                    | Allahabad.  |  |
| <ol> <li>Samp</li> <li>Samp</li> <li>Weat</li> <li>Lab (</li> </ol> | of Industry le Collected by ling Location her Condition Code tity of Sample | Borewo<br>Clear S | in & Mr Sunil<br>ell-3 | 8. Method o<br>9. Date of sa<br>10. Sample r<br>11. Date of /<br>12. Sample / | mpling<br>eccipt in lab<br>Analysis | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |  |

< 0.02

Vanadium as V

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 ote:

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mg/l

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APHA 3111-V-B

Method\*

5. No deviation as per the Standard Method.

**Authorized Signatory** 

Permissible limit in the

absence of alternate source

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

"Ind of this Test Report"

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



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### Test Report for Borewell Water Quality



LILR-TC824123000001674

| Repo   | ort No.                             |                         | Lab F                                     | teference No          | ).   | Issue Date   |  |
|--|-------------------------------------|-------------------------|---|-----------------------|--|--|--|
| PCS/   | BWQ/04/2023                         |                         | PCS/II                                    | FCO/03/2023 25/10/20. |  |  |  |
| 1.   | Name & Address of Indu              | stry M/s                | Indian Farmers Fertilizer                 | Cooperative           | Limited Phulpur Unit,                                | Allahabad.   |  |
| Type of Industry     Sample Collected by     Sampling Location |                                     |                         | Fertilizer Mr Vipin & Mr Sunil Borewell-4 |                       | od of Sampling<br>of sampling<br>aple receipt in lab | As per Standard Method<br>12/10/2023<br>13/10/2023   |  |
| <ol> <li>Weather Condition</li> <li>Lab Code</li> </ol>        |                                     | Clear<br>PCS2<br>2 lite | 23/187/1190                               |                       | e of Analysis<br>iple Analyzed By                    | 14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi      |  |
| 7.<br>SL   | Quantity of Sample Parameters       | Unit                    | Reference                                 | Result                | BIS St   | tandard IS 10500: 2012                               |  |
| No.  |                                     |                         | Method*                                   |                       | Requirement<br>(Acceptable limit)                    | Permissible limit in the absence of afternate source |  |
| 1.   | pН                                  | -                       | APHA 4500H+ B                             | 7.60                  | 6.5 - 8.5  | NR**   |  |
| 2.   | Conductivity                        | μmhos/cm                | APHA 2510-B                               | 1010                  | ***  | ***  |  |
| 3.   | Turbidity                           | NTU                     | APHA 2130 B                               | 0.18                  | 1  | 5  |  |
| 4.   | TDS                                 | mg/l                    | APHA 2540 C                               | 610                   | 500  | 2000   |  |
| 5.   | Hardness as CaCO;                   | mg/l                    | APHA 2340 C                               | 318                   | 200  | 600  |  |
| 6.   | Alkalinity as CaCO3                 | mg/l                    | APHA 2320 B                               | 372                   | 200  | 600  |  |
| 7.   | Chloride as CI                      | mg/l                    | APHA 4500-C1,B                            | 49.0                  | 250  | 1000   |  |
| 8.   | Sulphate as SO <sub>4</sub>         | mg/I                    | APHA 4500-SO <sub>4</sub> ,E              | 52.3                  | 200  | 400  |  |
| 9.   | Nitrate as NO <sub>3</sub>          | mg/l                    | APHA 4500-NO <sub>3</sub> ,E              | 1.71                  | 45   | NR**   |  |
| 10.  | Calcium as Ca                       | mg/l                    | APHA 3500-Ca,B                            | 45.9                  | 75   | 200  |  |
| 11.  | Magnesium as Mg                     | mg/l                    | APHA 3500-Mg,B                            | 49.4                  | 30   | 100  |  |
| 12.  | Sodium as Na                        | mg/l                    | APHA 3500-Na,B                            | 86.0                  | -  | -  |  |
| 13.  | Potassium as K                      | mg/l                    | APHA 3500-K,B                             | <10.0                 | -  | -  |  |
| 14.  | Copper as Cu                        | mg/l                    | APHA 3111-Cu, B                           | < 0.05                | 0.05   | 1.5  |  |
| 15.  | Dissolved Silica(SiO <sub>2</sub> ) | mg/l                    | APHA 4500-Si-C                            | 28.60                 | -  | -  |  |
| 16.  | Chromium as Cr                      | mg/l                    | APHA 3111-Cr, B                           | < 0.05                | 0.05   | NR**   |  |
|  |                                     |                         |   |                       |  |  |  |

mg/l APHA 3111-Mn,B Manganese as Mn

17.

18.

19.

20.

Iron as Fe

Nickel as Ni

Lead as Pb

Zinc as Zn

\*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.

< 0.3

0.02

< 0.01

0.048

< 0.02

0.3

0.02

0.01

5

0.1

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mg/l

mg/l

mg/l

mg/l

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APHA 3111-Fe,B

APHA 3111-Ni, B

APHA 3111-Pb,B

APHA 3111-Zn, D

5 No deviation as per the Standard Method

Authorized Signatory

NR\*\*

NR\*\*

NR\*\*

15

0.3

(Dr. Divya Misra) Managing Director

End of this Lest Report

Page | of 2



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# Test Report for Borewell Water Quality

| Reno   | ort No.  |  | Lab Re                    | ference No  | ١.                                | Issue Date  |  |
|--|--|--|---------------------------|---|-----------------------------------|---|--|
| nachionees filipina  | /BWQ/04(a)/2023  |  | PCS/IFFCO/03/2023         |   |                                   | 25/10/2023  |  |
| A STREET, SQUARE, SQUA | Name & Address of Industry   | M/s Ind                                  | ian Farmers Fertilizer Co | ooperative  | Limited Phulpur Unit,             | Allahabad.  |  |
| 2. 3. 4. 5. 5. 6. 1  | Type of Industry Sample Collected by Sampling Location Weather Condition Lab Code Quantity of Sample | Fertilize<br>Mr Vip<br>Borewe<br>Clear S | in & Mr Sunil<br>ell-4    | Mr Sunil 8. Method o 9. Date of sa 10. Sample 11. Date of |                                   | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |  |
| SI.  |  |  | Result                    | BISS  | tandard IS 10500: 2012            |   |  |
| No.  |  |  | Method*                   |   | Requirement<br>(Acceptable limit) | Permissible limit in the<br>absence of alternate source   |  |
|  |  |  |                           |   |                                   |   |  |

1. Vanadium as V mg/l APHA 3111-V-B <0.02 
\*As per APHA/AWWA, 22nd bid (2012) \*\* NR- No relaxation.

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under acceptable rouder the water not satisfied, but still may be tolerated in the absence of an alternative source but up to the limits indicated under permissible. Junti 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

"End of this Test Report"



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### Test Report for Borewell Water Quality



ULR-TC824123000001675

| Repo | ort No.                |         | La                       | b Reference No   | ),                  | Issue Date                           |
|------|------------------------|---------|--------------------------|------------------|---------------------|--------------------------------------|
| PCS/ | BWQ/05/2023            |         | PC                       | 25/10/2023       |                     |                                      |
| 1.   | Name & Address of Indi | istry M | s Indian Farmers Fertili | it, Allahabad.   |                     |                                      |
| 2.   | Type of Industry       | Fc      | rtilizer                 | 8. Meth          | od of Sampling      | As per Standard Method               |
| 3.   | Sample Collected by    | M       | r Vipin & Mr Sunil       |                  | of sampling         | 12/10/2023                           |
| 4.   | Sampling Location      | Bo      | rewell-5                 |                  | iple receipt in lab | 13/10/2023<br>14/10/2023- 20/10/2023 |
| 5.   | Weather Condition      | Cl      | ear Sky                  | 11. Date         | e of Analysis       |                                      |
| 6.   | Lab Code               | PC      | S23/187/1191             | 12. Sarr         | iple Analyzed By    | Ms Shivani Chaturvedi                |
| 7. ( | Quantity of Sample     | 21      | itor                     |                  |                     |                                      |
| SI.  | 1                      |         | Reference                | Reference Result | BIS                 | Standard IS 10500: 2012              |
| No.  |                        |         | Method*                  |                  | Requirement         | Permissible limit in the             |

| 7.  | Quantity of Sample                  | 2 lite   | r                            |        |                                   |  |
|-----|-------------------------------------|----------|------------------------------|--------|-----------------------------------|--|
| SI. | Parameters                          | Unit     | Reference                    | Result | BIS S                             | tandard IS 10500; 2012                               |
| No. |                                     | M        | Method*                      |        | Requirement<br>(Acceptable limit) | Permissible limit in the absence of alternate source |
| 1.  | pH                                  | -14.     | APHA 450011+ B               | 7.50   | 6.5 - 8.5                         | NR**   |
| 2.  | Conductivity                        | µmhos/cm | APHA 2510-B                  | 780    | ~ ~ ~                             | a, so in   |
| 3.  | Turbidity                           | NTU      | APHA 2130 B                  | 0.20   | 1                                 | 5  |
| 4.  | TDS                                 | mg/I     | APHA 2540 C                  | 472    | 500                               | 2000   |
| 5.  | Hardness as CaCO <sub>3</sub>       | mg/l     | APHA 2340 C                  | 308    | 200                               | 600  |
| 6.  | Alkalinity as CaCO <sub>3</sub>     | mg/I     | APHA 2320 B                  | 390    | 200                               | 600  |
| 7.  | Chloride as Cl                      | mg/l     | APHA 4500-CLB                | 21.0   | 250                               | 1000   |
| 8.  | Sulphate as SO <sub>4</sub>         | mg/I     | APHA 4500-SO <sub>4</sub> ,E | 27.0   | 200                               | 400  |
| 9.  | Nitrate as NO;                      | mg/l     | APHA 4500-NO3, E             | 1.85   | 45                                | NR**   |
| 10. | Calcium as Ca                       | mg/l     | APHA 3500-Ca,B               | 45.9   | 75                                | 200  |
| 11. | Magnesium as Mg                     | mg/l     | APHA 3500-Mg,B               | 47.0   | 30                                | 100  |
| 12. | Sodium as Na                        | mg/l     | APHA 3500-Na,B               | 68.0   |                                   | -  |
| 13. | Potassium as K                      | mg/l     | APHA 3500-K.B                | <10.0  |                                   | _  |
| 14. | Copper as Cu                        | mg/l     | APHA 3111-Cu, B              | < 0.05 | 0.05                              | 1.5  |
| 15. | Dissolved Silica(SiO <sub>2</sub> ) | mg/l     | APHA 4500-Si-C               | 33.2   | -                                 | -  |
| 16. | Chromium as Cr                      | mg/I     | APHA 3111-Cr, B              | < 0.05 | 0.05                              | NR**   |
| 17. | Iron as Fe                          | mg/l     | APHA 3111-Fe,B               | < 0.3  | 0.3                               | NR nic nic   |
| 18. | Nickel as Ni                        | mg/l     | APHA 3111-Ni, B              | < 0.02 | 0.02                              | VIS sje sji  |
| 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  |

21. Manganese as Mn mg/l APHA 5111-Mn,B <0.02 0.1 0.3

\*As per APHA/AWWA: 22nd Ed. (2012) \*4 NR. No relaxation.

Note. It is recommended that the acceptable hunt is to be implemented. Values in excess of those mentioned under acceptable, render the water not sortable, but still may be tolerated in the absence of an afternative source but up to the limits indicated under permissible, limit in the absence of afternative 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. Divva Misra) Managing Director

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Tel: 0522-4002545, Mobile: 09415518818,

GSTIN:-09AAJFP5925G1ZY

| Reference No.                           | Issue Date  |
|---|---|
| FFCO/03/2023                            | 25/10/2023  |
| Cooperative Limited Phulpur Unit,       | Allahabad.  |
| Method of Sampling     Date of sampling | As per Standard Method<br>12/10/2023                                |
| 10. Sample receipt in lab               | 13/10/2023<br>14/10/2023- 20/10/2023                                |
|   | <ol> <li>Date of sampling</li> <li>Sample receipt in lab</li> </ol> |

12. Sample Analyzed By

| 7.  | Quantity of Sample                    | 2 liter |                                   |  |       |                        |
|-----|---------------------------------------|---------|-----------------------------------|--|-------|------------------------|
| SI. | SI. Parameters Unit Reference Method* | 1 mit   | Reference                         | Result   | BIS S | tandard IS 10500: 2012 |
| No. |                                       |         | Requirement<br>(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.

As per Arrivad wide, 22th 18. (2012). "New Stefastion, which 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.

Note:

3.

4.

5.

Report No.

PCS/BWQ/05(a)/2023

Type of Industry

Sample Collected by

Sampling Location

Weather Condition

Lab Code

Name & Address of Industry

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PCS23/187/1191

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- 5 No deviation as per the Standard Method

Authorized Signatory

Ms Shivani Chaturvedi

Di Mi

(Dr. Divya Misra) Managing Director

"End of this Test Report"



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#### Test Report for Borewell Water Quality



LILR - TC824123000001676

| Repo                         | ort No.                         |          | Lab F                        | Reference No            | ),                                | Issue Date  |  |  |
|------------------------------|---------------------------------|----------|------------------------------|-------------------------|-----------------------------------|---|--|--|
|                              | BWQ/06/2023                     |          | PCS/II                       | IFFCO/03/2023 25/10/202 |                                   |   |  |  |
| De Deservoire control (1977) | Name & Address of Indu          | stry M/s | Indian Farmers Fertilizer    | Cooperative             | Limited Phulpur Unit.             | Allahabad.  |  |  |
|                              | Type of Industry                | Ferti    | lizer                        | 8. Meth                 | od of Sampling                    | As per Standard Method                                  |  |  |
|                              | Sample Collected by             | MrV      | /ipin & Mr Sunil             | 9. Date                 | of sampling                       | 12/10/2023  |  |  |
|                              | Sampling Location               | Boro     | ewell-6                      | 10. San                 | aple receipt in lab               | 13/10/2023  |  |  |
| ž.,                          | Weather Condition               | Clea     | r Sky                        | 11. Dat                 | e of Analysis                     | 14/10/2023- 20/10/2023                                  |  |  |
| ).                           | Lab Code                        | PCS      | 23/187/1192                  | 12. San                 | iple Analyzed By                  | Ms Shiyani Chaturvedi                                   |  |  |
| 7.                           | Quantity of Sample              | 2 lite   | T                            |                         |                                   |   |  |  |
| SL                           | Parameters                      | Unit     | Reference                    | Result                  | BIS St                            | tandard IS 10500; 2012                                  |  |  |
| No.                          |                                 |          | Method*                      |                         | Requirement<br>(Acceptable limit) | Permissible limit in the<br>absence of alternate source |  |  |
| 1.                           | pH                              | -        | APHA 4500H+ B                | 7.60                    | 6.5 - 8.5                         | NR**  |  |  |
| 2.                           | Conductivity                    | µmhos/cm | APHA 2510-B                  | 750                     | an 40 ab                          | www.  |  |  |
| 3.                           | Turbidity                       | NTU      | APHA 2130 B                  | 0.17                    | 1                                 | 5   |  |  |
| 4.                           | TDS                             | mg/l     | APHA 2540 C                  | 455                     | 500                               | 2000  |  |  |
| 5.                           | Hardness as CaCO <sub>3</sub>   | mg/l     | APHA 2340 C                  | 294                     | 200                               | 600   |  |  |
| 6.                           | Alkalinity as CaCO <sub>1</sub> | mg/l     | APHA 2320 B                  | 375                     | 200                               | 600   |  |  |
| 7.                           | Chloride as CI                  | mg/l     | APHA 4500-CLB                | 19.0                    | 250                               | 1000  |  |  |
| 8.                           | Sulphate as SO <sub>4</sub>     | mg/l     | APHA 4500-SO <sub>4</sub> ,E | 25.0                    | 200                               | 400   |  |  |
| 9.                           | Nitrate as NO <sub>3</sub>      | mg/I     | APHA 4500-NO <sub>3</sub> ,E | 2.49                    | 4.5                               | NR**  |  |  |
| 10.                          | Calcium as Ca                   | mg/l     | APHA 3500-Ca,B               | 42.0                    | 75                                | 200   |  |  |
| 11.                          | Magnesium as Mg                 | mg/l     | APHA 3500-Mg,B               | 45.9                    | 30                                | 100   |  |  |
| 12.                          | Sodium as Na                    | mg/l     | APHA 3500-Na,B               | 65.0                    | -                                 | -   |  |  |
| 13.                          | Potassium as K                  | mg/l     | APHA 3500-K,B                | <10.0                   | -                                 | -   |  |  |
|                              |                                 |          |                              |                         |                                   |   |  |  |

0.05

29.8

< 0.3

< 0.02

0.01

0.044

0.05

0.05

0.3

0.02

0.01

5

mg/l Manganese as Mn \*As per APHA/AWWA: 22nd Fd (2012) \*\* NR No relaxation.

14.

15.

16

17

18

19.

20.

21.

Copper as Cu

Iron as Fe

Nickel as Ni

Lead as Pb

Zinc as Zn

Chromium as Cr

Dissolved Silica(SiO2)

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 faints indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected ofe:

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mg/l

mg/l

mg/l

mg/l

mg/l

mg/1

mg/I

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APHA 3111-Cu. B

APHA 4500-Si-C

APHA 3111-Cr. B

APHA 3111-Fe,B

APHA 3111-Ni, B

APHA 3111-Pb,B

APHA 3111-Zn, D

APHA 3111-Mn,B

5 No deviation as per the Standard Method

Authorized Signatory

1.5

NR\*\*

NR\*\*

NR\*\*

NR\*\*

15

0.3

(Dr. Divya Misra) Managing Director

End of this Test Report



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### Test Report for Borewell Water Quality

| Repo                | ort No.  |  | Lab Re                  | ference No  | Issue Date                        |   |  |
|---------------------|--|--|-------------------------|---|-----------------------------------|---|--|
| PCS/                | BWQ/06(a)/2023   |  | PCS/IFFCO/03/2023       |   |                                   | 25/10/2023  |  |
| 1. 1                | Name & Address of Industry   | M/s India  | n Farmers Fertilizer Co | operative   | Limited Phulpur Unit,             | Allahabad.  |  |
| 3. § 4. § 5. \ 6. I | Type of Industry  Sample Collected by  Sampling Location  Weather Condition  ab Code  Quantity of Sample | Fertilizer<br>Mr Vipin<br>Borewell<br>Clear Sky<br>PCS23/18<br>2 liter | & Mr Sunil              | 8. Method of Sampling 9. Date of sampling 10. Sample receipt in lab 11. Date of Analysis 12. Sample Analyzed By |                                   | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |  |
| SI.                 | Parameters   | Unit   | Reference               | Result  | BIS St                            | andard IS 10500: 2012   |  |
| No.                 |  |  | Method*                 |   | Requirement<br>(Acceptable limit) | Permissible limit in the absence of alternate source  |  |
| 1.                  | Vanadium as V  | mg/I   | APHA 3111-V-B           | < 0.02  |                                   |   |  |

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

Note. It is recommended that the acceptable firmt 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. Junit 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 Viethod.

Authorized Signatory

(Dr. Divya Misra) Managing Director

"Ind of this Test Report"



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### Test Report for Borewell Water Quality



ULR-TC824123000001677

| Rep                  | ort No.  |  | Lab  | Reference No  | 0.   | Issue Date   |  |
|----------------------|--|--|--|---------------|--|--|--|
| PCS                  | /BWQ/07/2023   |  | PCS/   | 25/10/2023    |  |  |  |
| 1,                   | Name & Address of Indus  | try M/s I                              | ndian Farmers Fertilize  | r Cooperative | Limited Phulpur Unit.  |  |  |
| 3.<br>4.<br>5.<br>6. | Type of Industry Sample Collected by Sampling Location Weather Condition Lab Code Quantity of Sample | Ferti<br>Mr V<br>Bore<br>Clear<br>PCS: | Fertilizer Mr Vipin & Mr Sunil Borewell-7 Clear Sky PCS23/187/1193 2 liter |               | of sampling<br>of sampling<br>aple receipt in lab<br>e of Analysis<br>aple Analyzed By | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023-20/10/2023<br>Ms Shivani Chaturvedi |  |
| SI.<br>No.           | Parameters   | Unit                                   | Reference<br>Method*   | Result        | BIS S<br>Requirement<br>(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/em                               | APHA 2510-B  | 830           | w.e.e.   |  |  |
| -                    | -F1 1 1 11.  | N 1-779 1                              |  |               |  |  |  |

| SI. | Parameters                          | Unit     | Method*                      | BISS    | BIS Standard IS 10500; 2012       |  |  |
|-----|-------------------------------------|----------|------------------------------|---------|-----------------------------------|--|--|
| No. |                                     |          |                              |         | Requirement<br>(Acceptable limit) | Permissible limit in the absence of alternate source |  |
| 1.  | pH                                  | _        | APHA 4500H+ B                | 7,50    | 6.5 - 8.5                         | NR**   |  |
| 2.  | Conductivity                        | μmhos/cm | APHA 2510-B                  | 830     | *                                 | ~  |  |
| 3.  | Turbidity                           | NTU      | APHA 2130 B                  | 0.19    | 1                                 | 5  |  |
| 4.  | TDS                                 | mg/l     | APHA 2540 C                  | 504     | 500                               | 2000   |  |
| 5.  | Hardness as CaCO3                   | mg/l     | APHA 2340 C                  | 295     | 200                               | 600  |  |
| 6.  | Alkalinity as CaCO <sub>3</sub>     | mg/l     | APHA 2320 B                  | 396     | 200                               | 600  |  |
| 7.  | Chloride as Cl                      | mg/l     | APHA 4500-Cl,B               | 24.0    | 250                               | 1000   |  |
| 8,  | Sulphate as SO <sub>4</sub>         | mg/I     | APHA 4500-SO, E              | 35.0    | 200                               | 400  |  |
| 9.  | Nitrate as NO <sub>3</sub>          | mg/I     | APHA 4500-NO <sub>3</sub> ,E | 2.45    | 45                                | NR**   |  |
| 10. | Calcium as Ca                       | mg/l     | APHA 3500-Ca,B               | 43.0    | 75                                | 200  |  |
| 11. | Magnesium as Mg                     | mg/I     | APHA 3500-Mg,B               | 45.6    | 30                                | 100  |  |
| 12. | Sodium as Na                        | mg/I     | APHA 3500-Na,B               | 82.0    | -                                 | -  |  |
| 13. | Potassium as K                      | mg/l     | APHA 3500-K.B                | <10.0   | -                                 | -  |  |
| 14. | Copper as Cu                        | mg/l     | APHA 3111-Cu, B              | < 0.05  | 0.05                              | 1.5  |  |
| 15. | Dissolved Silica(SiO <sub>2</sub> ) | mg/l     | APHA 4500-Si-C               | 29.90   |                                   | -  |  |
| 16. | Chromium as Cr                      | mg/l     | APHA 3111-Cr, B              | < 0.05  | 0.05                              | NR**   |  |
| 17. | Iron as Fe                          | mg/l     | APHA 3111-Fe,B               | <().3   | 0.3                               | NR**   |  |
| 18. | Nickel as Ni                        | mg/l     | APHA 3111-Ni, B              | < 0.02  | 0.02                              | NR**   |  |
| 19. | Lead as Pb                          | mg/I     | APHA 3111-Pb,B               | <(),()1 | 0.01                              | NR**   |  |
| 20. | Zinc as Zn                          | mg/I     | APHA 3111-Zn, D              | 0.050   | 5                                 | 15   |  |
| 21. | Manganese as Mn                     | mg/l     | APHA 3111-Mn.B               | < 0.02  | 0.1                               | 0.3  |  |

<sup>21.</sup> Manganese as Mn | mg/1 | APHA 3111-Mn,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 Note:

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4. Ptakrift Consultants Services is not regulatory agency bence no pair of this report should be used for legal purpose under any circumstances

5. No deviation as per the Standard Method.

Authorized Signatory

(Dr. Divva Misra) Managing Director

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### Test Report for Rorewell Water Quality

| Reno                         | ort No.  |                                 | Lab Re   | ference No |   | Issue Date   |
|------------------------------|--|---------------------------------|--|------------|---|--|
|                              | /BWQ/07(a)/2023  | * -                             |  | CO/03/202  |   | 25/10/2023   |
|                              | Name & Address of Industry   | M/s Indi                        | an Farmers Fertilizer Co   | operative  | Limited Phulpur Unit,   | Allahabad.   |
| 3. 5<br>4. 5<br>5. 1<br>6. I | Type of Industry Sample Collected by Sampling Location Weather Condition Lab Code Quantity of Sample | Mr Vipit<br>Borewel<br>Clear Sk | Fertilizer<br>Mr Vipin & Mr Sunil<br>Borewell-7<br>Clear Sky<br>PCS23/187/1193 |            | nod of Sampling<br>of sampling<br>nple receipt in lab<br>re of Analysis<br>nple Analyzed By | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023 - 20/10/2023<br>Ms Shivani Chaturvedi |
| SI.                          | Parameters   | Unit                            | Reference  | Result     | BISS  | tandard IS 10500: 2012   |
| No.                          |  |                                 | Method*  |            | Requirement<br>(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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5. No deviation as per the Standard Method.

Authorized Signatory

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

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### Test Report for Borewell Water Quality



ULR-TC824123000001678

|   | ort No.                         |           | Lab I  | Reference No    | 0.  | Issue Date   |
|---|---------------------------------|-----------|--|-----------------|---|--|
| PCS   | BWQ/08/2023                     |           | PCS/II   | FFCO/03/2023 25 |   |  |
| 1.  | Name & Address of Indi          | ustry M/s | Indian Farmers Fertilizer  | Cooperative     | Limited Phulper Unit.   |  |
| <ol> <li>Type of Industry</li> <li>Sample Collected by</li> <li>Sampling Location</li> <li>Weather Condition</li> <li>Lab Code</li> <li>Quantity of Sample</li> </ol> |                                 |           | Fertilizer  Mr Vipin & Mr Sunil  Forewell-8  Clear Sky  CS23/187/1194  S. Method of Sampling  9. Date of sampling  10. Sample receipt in lab  11. Date of Analysis  12. Sample Analyzed By  13. Sample Analyzed By |                 | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |  |
| SI.   | Parameters                      | Unit      | Reference  | Result          | BISS  | tandard IS 10500: 2012                               |
| No.   |                                 |           | Method*  |                 | Requirement<br>(Acceptable limit)   | Permissible limit in the absence of alternate source |
| 1.  | pH                              | -         | APHA 4500H+ B  | 7.49            | 6.5 - 8.5   | NR**   |
| 2.  | Conductivity                    | μmhos/em  | APHA 2510-B  | 1990            |   |  |
| 3.  | Turbidity                       | NTU       | APHA 2130 B  | 0.21            | 1   | 5  |
| 4.  | TDS                             | mg/l      | APHA 2540 C  | 1210            | 500   | 2000   |
| 5.  | Hardness as CaCO <sub>3</sub>   | mg/l      | APHA 2340 C  | 562             | 200   | 600  |
| 6.  | Alkalinity as CaCO <sub>1</sub> | mg/l      | APHA 2320 B  | 428             | 200   | 600  |
| 7.  | Chloride as Cl                  | mg/l      | APHA 4500-CLB  | 268             | 250   | 1000   |
| 8.  | Sulphate as SO <sub>4</sub>     | mg/l      | APHA 4500-SO <sub>4</sub> ,E   | 214             | 200   | 400  |
| 9.  | Nitrate as NO <sub>3</sub>      | mg/l      | APHA 4500-NO <sub>3</sub> ,E   | 1.81            | 45  | VR**   |
| 10.   | Calcium as Ca                   | mg/I      | APHA 3500-Ca,B   | 75.6            | 75  | 200  |
| 11.   | Magnesium as Mg                 | mg/l      | APHA 3500-Mg,B   | 90.6            | 30  | 100  |
| 12.   | Sodium as Na                    | mg/l      | APHA 3500-Na,B   | 225.0           |   | -  |

<10.0

0.05

34.6

< 0.3

< 0.02

0.048

< 0.02

0.05

0.05

0.3

0.02

0.01

5

0.1

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

13.

14.

15

16.

17.

18

19

20.

21.

Potassium as K

Chromium as Cr

Manganese as Mn

Dissolved Silica(SiO2)

Copper as Cu

Iron as Fe

Nickel as Ni

Lead as Pb

Zinc as Zn

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. It is absence of alternative source above which the sources will have to be rejected of:

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mg/l

mg/l

mg/l

mg/l

mg/l

mg/I

mg/I

mg/l

mg/I

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APHA 3500-K.B

APHA 3111-Cu, B

APHA 4500-Si-C

APHA 3111-Cr. B

APHA 3111-Fe,B

APHA 3111-Ni, B

APHA 3111-Pb.B

APHA 3111-Zn. D

APHA 3111-Mn,B

5. No deviation as per the Standard Method.

Authorized Signatory

1.5

NR\*\*

NR\*\*

NR\*\*

NR\*\*

15

0.3

(Dr. Divya Misra) Managing Director

"End of this Test Report"

Page Lof2



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### Test Deport for Rorewell Water Quality

| Repo   | ort No.  |                                 | Lab Re   | ference No |  | Issue Date  |
|--|--|---------------------------------|--|------------|--|---|
|  | BWQ/08(a)/2023   |                                 | PCS/IFFCO/03/2023  |            |  | 25/10/2023  |
| NAME AND ADDRESS OF THE OWNER, WHEN PERSONS ADDRESS | Name & Address of Industry   | M/s Indi                        | an Farmers Fertilizer Co   | operative  | Limited Phulpur Unit, .  | Allahabad.  |
| 3. 5<br>4. 5<br>5. 1<br>6. 1   | Type of Industry Sample Collected by Sampling Location Weather Condition Lab Code Quantity of Sample | Mr Vipir<br>Borewel<br>Clear Sk | Fertilizer Mr Vipin & Mr Sunil Borewell-8 Clear Sky PCS23/187/1194 |            | nod of Sampling<br>of sampling<br>inple receipt in lab-<br>ie of Analysis<br>inple Analyzed By | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |
| SI.  | Parameters   | Unit                            | Reference  | Result     | BIS St   | andard IS 10500; 2012   |
| No.  |  |                                 | Method*  |            | Requirement<br>(Acceptable limit)  | Permissible limit in the<br>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 lumit 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 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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### Test Report for Borewell Water Quality



ULR-TC824123000001679

| THE RESERVE THE PERSON NAMED IN | ort No.                                 |          | Lab I                        | Reference No            | 0,                                   | Issue Date   |  |
|---------------------------------|---|----------|------------------------------|-------------------------|--------------------------------------|--|--|
| PCS/                            | BWQ/09/2023                             |          | PCS/II                       | FFCO/03/2023 25/10/2023 |                                      |  |  |
| 1.                              | Name & Address of Indu                  | stry M/s | Indian Farmers Fertilizer    | Cooperative             | Limited Phulpur Unit,                |  |  |
|                                 | Type of Industry<br>Sample Collected by | Ferti    |                              | 8. Meth                 | od of Sampling<br>of sampling        | As per Standard Method<br>12/10/2023                 |  |
| 4.                              | Sampling Location<br>Weather Condition  | Boro     | r Sky                        | 10. San                 | iple receipt in lab<br>e of Analysis | 13/10/2023<br>14/10/2023- 20/10/2023                 |  |
|                                 | Lab Code<br>Quantity of Sample          |          | PCS23/187/1195<br>2 liter    |                         | nple Analyzed By                     | Ms Shivani Chaturvedi                                |  |
| SL.                             | Parameters                              | Unit     | Reference                    | Result                  | BISS                                 | tandard IS 10500: 2012                               |  |
| No.                             |   |          | Method*                      |                         | Requirement<br>(Acceptable limit)    | Permissible limit in the absence of alternate source |  |
| 1.                              | pH                                      | -        | APHA 4500H+ B                | 7.65                    | 6.5 - 8.5                            | NR**   |  |
| 2.                              | Conductivity                            | µmhos/cm | APHA 2510-B                  | 1750                    | 440                                  | ***  |  |
| 3.                              | Turbidity                               | NTU      | APHA 2130 B                  | 0.19                    |                                      | 5  |  |
| 4.                              | TDS                                     | mg/l     | APHA 2540 C                  | 1060                    | 500                                  | 2000   |  |
| 5.                              | Hardness as CaCO <sub>3</sub>           | mg/I     | APHA 2340 C                  | 452                     | 200                                  | 600  |  |
| 6.                              | Alkalinity as CaCO <sub>1</sub>         | mg/l     | APHA 2320 B                  | 410                     | 200                                  | 600  |  |
| 7.                              | Chloride as Cl                          | mg/l     | APHA 4500-CLB                | 216                     | 250                                  | 0001   |  |
| 8.                              | Sulphate as SO <sub>4</sub>             | mg/l     | APHA 4500-SO <sub>4</sub> .E | 184                     | 200                                  | 400  |  |
| 9.                              | Nitrate as NO <sub>3</sub>              | mg/l     | APHA 4500-NO <sub>3</sub> ,E | 3.62                    | 45                                   | NR**   |  |
| 10.                             | Calcium as Ca                           | mg/l     | APHA 3500-Ca,B               | 64.0                    | 75                                   | 200  |  |
| 11.                             | Magnesium as Mg                         | mg/l     | APHA 3500-Mg,B               | 71.0                    | 30                                   | 100  |  |
| 12.                             | Sodium as Na                            | mg/l     | APHA 3500-Na,B               | 210                     | -                                    | ~  |  |
| 13.                             | Potassium as K                          | mg/l     | APHA 3500-K,B                | <10.0                   | -                                    | -  |  |
| 14.                             | Copper as Cu                            | mg/l     | APHA 3111-Cu, B              | < 0.05                  | 0.05                                 | 1.5  |  |
| 15.                             | Dissolved Silica(SiO <sub>2</sub> )     | mg/l     | APHA 4500-Si-C               | 34.6                    | -                                    |  |  |
|                                 |   |          |                              |                         |                                      |  |  |

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

Chromium as Cr

Manganese as Mn

Iron as Fe

Nickel as Ni

Lead as Pb

Zinc as Zn

16.

17.

19.

Note:

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 ofte:

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0.05

< 0.3

0.3

0.01

5

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mg/l

mg/l

mg/l

mg/l

mg/I

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APHA 3111-Cr, B

APHA 3111-Fe,B

APHA 3111-Ni, B

APHA 3111-Pb.B

APHA 3111-Zn, D

APHA 3111-Mn,B

5. No deviation as per the Standard Method.

Authorized Signatory

NR\*\*

NR\*\*

NR \*\*

NR\*\*

15

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### Test Report for Borewell Water Quality

| Report No. Lab Reference          |   |   |                          | ference No  | ,                                 | Issue Dat   |
|-----------------------------------|---|---|--------------------------|---|-----------------------------------|---|
|                                   | BWQ/09(a)/2023  |   | PCS/IFF                  | CO/03/202   | .3                                | 25/10/202   |
| CONTRACTOR OF THE PERSON NAMED IN | Name & Address of Industry  | M/s India   | ın Farmers Fertilizer Co | ooperative  | Limited Phulpur Unit,             |   |
| 3. §<br>4. §<br>5. \<br>6. I      | Type of Industry  Sample Collected by  Sampling Location  Weather Condition  Lab Code  Quantity of Sample | Fertilizer<br>Mr Vipin<br>Borewell<br>Clear Sky<br>PCS23/1<br>2 liter | ı & Mr Sunil<br>I-9<br>y | 8. Method of Sampling 9. Date of sampling 10. Sample receipt in lab 11. Date of Analysis 12. Sample Analyzed By |                                   | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |
| SI.                               | Parameters  | Unit  | Reference                | Result  | BIS S                             | tandard IS 10500: 2012  |
| No.                               |   |   | Method*                  |   | Requirement<br>(Acceptable limit) | Permissible limit in the<br>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 finite 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 "permissable, 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

End of this Test Report



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

### Test Report for Borewell Water Quality

ULR-TC824123000001680



| and an angeloss            | ort No.  |  | Lab                          | Reference No                             | 0.   | Issue Date   |
|----------------------------|--|--|------------------------------|--|--|--|
|                            | BWQ/10/2023  |  | PCS/I                        | FFCO/03/20.                              | 25/10/2023   |  |
|                            | Name & Address of Indu   | stry M/s   | Indian Farmers Fertilizer    |  |  | Allahabad  |
| 3.<br>4.<br>5.<br>6.<br>7. | Type of Industry Sample Collected by Sampling Location Weather Condition Lab Code Quantity of Sample | mple Collected by Mr Vipin & Mr Sunil Dipling Location Borewell-10 Clear Sky Code PCS23/187/1196 |                              | 8. Meth<br>9. Date<br>10. San<br>11. Dat | of sampling<br>of sampling<br>uple receipt in lab<br>e of Analysis<br>uple Analyzed By | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023 - 20/10/2023<br>Ms Shivani Chaturvedi |
| SI.                        | Parameters   | Unit   | Reference                    | Result                                   | BISS   | tandard IS 10500: 2012   |
| No.                        |  |  | Method*                      |  | Requirement<br>(Acceptable limit)  | Permissible limit in the absence of alternate source   |
| 1.                         | pН   | -  | APHA 4500H+B                 | 7.70                                     | 6.5 - 8.5  | NR**   |
| 2.                         | Conductivity   | μmhos/cm   | APHA 2510-B                  | 1050                                     | ***  | ***  |
| 3.                         | Turbidity  | NTU  | APHA 2130 B                  | 0.20                                     | 1  | 5  |
| 4.                         | TDS  | mg/l   | APHA 2540 C                  | 635.0                                    | 500  | 2000   |
| 5.                         | Hardness as CaCO <sub>3</sub>  | mg/l   | APHA 2340 C                  | 318.0                                    | 200  | 600  |
| 6.                         | Alkalinity as CaCO:  | mg/l   | APHA 2320 B                  | 385.0                                    | 200  | 600  |
| 7.                         | Chloride as Cl   | mg/l   | APHA 4500-CLB                | 58.5                                     | 250  | 1000   |
| 8.                         | Sulphate as SO <sub>4</sub>  | mg/l   | APHA 4500-SO <sub>4</sub> ,E | 48.4                                     | 200  | 400  |
| 9.                         | Nitrate as NO <sub>3</sub>   | mg/l   | APHA 4500-NO <sub>3</sub> ,E | 1.42                                     | 45   | NR**   |
| 10.                        | Calcium as Ca  | mg/l   | APHA 3500-Ca,B               | 43.0                                     | 75   | 200  |
| 11.                        | Magnesium as Mg  | mg/l   | APHA 3500-Mg,B               | 51.2                                     | 30   | 100  |
| 12.                        | Sodium as Na   | mg/l   | APHA 3500-Na,B               | 93.0                                     | ***  | _  |
| 13.                        | Potassium as K   | mg/l   | APHA 3500-K,B                | <10.0                                    | -  | -  |
| 14.                        | Copper as Cu   | mg/l   | APHA 3111-Cu, B              | < 0.05                                   | 0.05   | 1.5  |
| 15.                        | Dissolved Silica(SiO <sub>2</sub> )  | mg/l   | APHA 4500-Si-C               | 34.2                                     | -  | -  |

:0.3

0.01

< 0.02

0.05

0.3

0.02

0.01

5

mg/l APHA 3111-Mn.B 'As per APHA AWWA; 22nd Ed. (2012) \*\* NR. No relaxation.

Chromium as Cr

Manganese as Mn

Iron as Fe

Nickel as Ni

Lead as Pb

Zinc as Zn

16.

17.

18.

19.

20.

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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mg/l

mg/l

mg/l

mg/l

mg/l

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APHA 3111-Cr. B

APHA 3111-Fe.B

APHA 3111-Ni, B

APHA 3111-Pb.B

APHA 3111-Zn, D

5. No deviation as per the Standard Method.

Authorized Signatory

(Dr. Divya Misra) Managing Director

Page 1 of 2

NR \*\*

NR\*\*

VR\*\*

VR\*\*

15

03

"End of this Test Report"



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| Test Report for Bo                               | rewell Water Quality  |  |
|--|---|--|
| Lab  | Reference No.   | Issue Date   |
|  | IFFCO/03/2023   | 25/10/2023   |
| M/s Indian Farmers Fertilize                     | r Cooperative Limited Phulpur Unit,   | Allahabad.   |
| Fertilizer<br>Mr Vipin & Mr Sunil<br>Borewell-10 | Method of Sampling     Date of sampling     One of sampling     Sample receipt in lab | As per Standard Method<br>12/10/2023<br>13/10/2023 |

11. Date of Analysis

12. Sample Analyzed By

| 7. <u>Ç</u><br>Sl. | Parameters    | 2 liter | Reference     | Result | BIS S                             | tandard IS 10500: 2012                                  |
|--------------------|---------------|---------|---------------|--------|-----------------------------------|---|
| No.                | Tatameters    | Cint    | Method*       |        | Requirement<br>(Acceptable limit) | Permissible limit in the<br>absence of alternate source |
| 1.                 | Vanadium as V | mg/l    | APHA 3111-V-B | < 0.02 |                                   |   |

<sup>\*</sup>As per APHA/AWWA, 22ml Ed. (2012) \*\* NR- No relaxation.

Note. It is recommended that the acceptable from 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 afternative source but up to the limits indicated under permissible. Juni in the absence of alternative source above which the sources will have to be rejected.

Note:

Report No.

3.

4.

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PCS/BWQ/10(a)/2023

Type of Industry Sample Collected by

Sampling Location

Weather Condition

Lab Code

Name & Address of Industry

I 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
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Clear Sky

PCS23/187/1196

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5. No deviation as per the Standard Method

**Authorized Signatory** 

14/10/2023-20/10/2023

Ms Shivani Chaturvedi

(Dr. Divya Misra) Managing Director



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### Test Report for Borewell Water Quality



| Repe | rt No.                              |           | Lab I   | teference No | ),                 | Issue Date                  |  |  |
|------|-------------------------------------|-----------|---|--------------|--------------------|-----------------------------|--|--|
| PCS/ | BWQ/11/2023                         |           | PCS/II  | TCO/03/20:   | 23                 | 25/10/2023                  |  |  |
| 1.   | Name & Address of Indus             | stry M/s  | Vs Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad. |              |                    |                             |  |  |
| 2.   | Type of Industry                    | Fert      | lizer   | 8. Meth      | od of Sampling     | As per Standard Method      |  |  |
| 3.   | Sample Collected by                 | Mr        | Vipin & Mr Sunil  | 9. Date      | of sampling        | 12/10/2023                  |  |  |
| 4.   | Sampling Location                   | Bor       | ewell-11  |              | ple receipt in lah | 13/10/2023                  |  |  |
|      | Weather Condition                   |           | r Sky   |              | e of Analysis      | 14/10/2023 - 20/10/2023     |  |  |
|      | Lab Code                            | 1 1/1 200 | 23/187/1197   | 12. San      | iple Analyzed By   | Ms Shivani Chaturvedi       |  |  |
|      | Quantity of Sample                  | 2 lite    |   |              |                    |                             |  |  |
| SI.  | Parameters                          | Unit      | Reference   | Result       |                    | andard IS 10500: 2012       |  |  |
| No.  |                                     |           | Method*   |              | Requirement        | Permissible limit in the    |  |  |
|      |                                     | ļ         |   |              | (Acceptable limit) | absence of alternate source |  |  |
| 1.   | pH                                  | -         | APHA 4500H+ B   | 7.60         | 6.5 - 8.5          | NR**                        |  |  |
| 2.   | Conductivity                        | jumhos/cm |   | 1230         | ***                | ***                         |  |  |
| 3.   | Turbidity                           | NTU       | APHA 2130 B   | 0.14         | 1                  | 5                           |  |  |
| 4.   | TDS                                 | mg/l      | APHA 2540 C   | 740          | 500                | 2000                        |  |  |
| 5.   | Hardness as CaCO <sub>3</sub>       | mg/l      | APHA 2340 C   | 395          | 200                | 600                         |  |  |
| 6.   | Alkalinity as CaCO <sub>3</sub>     | mg/l      | APHA 2320 B   | 410          | 200                | 600                         |  |  |
| 7.   | Chloride as Cl                      | mg/l      | APHA 4500-Cl,B  | 85.0         | 250                | 1000                        |  |  |
| 8.   | Sulphate as SO <sub>4</sub>         | mg/I      | APHA 4500-SO <sub>4</sub> ,E  | 124.0        | 200                | 400                         |  |  |
| 9.   | Nitrate as NO <sub>3</sub>          | mg/I      | APHA 4500-NO3,E   | 2.58         | 45                 | NR**                        |  |  |
| 10.  | Calcium as Ca                       | mg/l      | APHA 3500-Ca,B  | 57.0         | 75                 | 200                         |  |  |
| 11.  | Magnesium as Mg                     | mg/l      | APHA 3500-Mg,B  | 61.4         | 30                 | 100                         |  |  |
| 12.  | Sodium as Na                        | mg/I      | APHA 3500-Na,B  | 122.0        | -                  | -                           |  |  |
| 13.  | Potassium as K                      | mg/l      | APHA 3500-K,B   | <   0.0      | No.                | -                           |  |  |
| 14.  | Copper as Cu                        | mg/l      | APHA 3111-Cu, B   | < 0.05       | 0.05               | 1.5                         |  |  |
| 15.  | Dissolved Silica(SiO <sub>2</sub> ) | mg/l      | APHA 4500-Si-C  | 36.1         |                    | +                           |  |  |
| 16.  | Chromium as Cr                      | mg/l      | APHA 3111-Cr, B   | < 0.05       | 0.05               | NR**                        |  |  |
|      |                                     |           |   |              |                    |                             |  |  |

mg/I\*As per APHA/AWWA: 22nd Fd (2012) \*\* NR-No relaxation.

Iron as Fe

Nickel as Ni

Lead as Pb

Zinc as Zn

Manganese as Mn

17.

18

19

20.

Note:

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

0.3

0.042

0.3

0.02

0.01

5

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mg/l

mg/l

mg/I

mg/I

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APHA 3111-Fe,B

APHA 3111-Ni, B

APHA 3111-Pb,B

APHA 3111-Zn, D

APHA 3111-Mn,B

5. No deviation as per the Standard Method

Authorized Signatory

NR\*\*

NR\*\*

15

NR\*\*

(Dr. Divva Misra) Managing Director

"End of this Test Report"

Page Lof 2



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Tel: 0522-4002545, Mobile: 09415518818,

GSTIN: -09AAJFP5925GIZY

|   |                                       | Те   | st Report for Bore         | well Wat  | er Quality                        |   |  |
|---|---------------------------------------|--|----------------------------|---|-----------------------------------|---|--|
| Report No.  |                                       |  | Lab Re                     | ference No  |                                   | Issue Date  |  |
| PCS/BWQ/I   | (a)/2023                              | •  | PCS/IFF                    | CO/03/202   | 13                                | 25/10/2023  |  |
| 1. Name &   | Address of Industry                   | M/s Indi   | an Farmers Fertilizer Co   | ooperative  | Limited Phalpur Unit,             | Allahabad.  |  |
| <ol> <li>Sampling</li> <li>Weather</li> <li>Lab Code</li> </ol> | Collected by<br>Location<br>Condition | Fertilize<br>Mr Vipin<br>Borewel<br>Clear Sk<br>PCS23/1<br>2 liter | n & Mr Sunil<br>II-11<br>y | 8. Method of Sampling 9. Date of sampling 10. Sample receipt in lab 11. Date of Analysis 12. Sample Analyzed By |                                   | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |  |
| Sl. Paran   |                                       | Unit   | Reference                  | Result  | BIS S                             | tandard IS 10500: 2012  |  |
| No.   |                                       |  | Method*                    |   | Requirement<br>(Acceptable limit) | Permissible limit in the<br>absence of alternate source   |  |
| I. Vanad  | ium 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 hant is to be implemented. Values in excess of those mentioned under 'acceptable' render the water not suitable, but still may be talerated 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.

Notes

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5. No deviation as per the Standard Method

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(Dr. Divya Misra) Managing Director

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GSTIN - 09AAJFP5925G1ZY

### Test Report for Borewell Water Quality





| Repo           | ort No.  |   | Lab F                        | Reference No  | 0.                                | Issue Date  |
|----------------|--|---|------------------------------|---|-----------------------------------|---|
| PCS/           | /BWQ/12/2023   |   | PCS/II                       | FCO/03/202  | 2.3                               | 25/10/2023  |
| 1.             | Name & Address of Indu-  | stry M/s  | ndian Farmers Fertilizer     | Cooperative   | Limited Phulpur Unit,             | Allahabad.  |
| 4.<br>5.<br>6. | Type of Industry Sample Collected by Sampling Location Weather Condition Lab Code Quantity of Sample | Fertilizer Mr Vipin & Mr Sunil Borewell-12 Clear Sky PCS23/187/1198 2 liter |                              | 8. Method of Sampling 9. Date of sampling 10. Sample receipt in lah 11. Date of Analysis 12. Sample Analyzed By |                                   | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |
| SI.            | Parameters   | Unit  | Reference                    | Result  | BIS St                            | andard IS 10500: 2012   |
| No.            |  |   | Method*                      |   | Requirement<br>(Acceptable limit) | Permissible limit in the absence of alternate source  |
| 1.             | pH   | -   | APHA 4500H+ B                | 7.70  | 6.5 - 8.5                         | NR**  |
| 2.             | Conductivity   | μmhos/cm  | APHA 2510-B                  | 918.0   | ***                               | N==   |
| 3.             | Turbidity  | NTU   | APHA 2130 B                  | 0.19  |                                   | 5   |
| 4.             | TDS  | mg/l  | APHA 2540 C                  | 556   | 500                               | 2000  |
| 5.             | Hardness as CaCO;  | mg/l  | APHA 2340 C                  | 314   | 200                               | 600   |
| 6.             | Alkalinity as CaCO <sub>3</sub>  | mg/l  | APHA 2320 B                  | 385.0   | 200                               | 600   |
| 7.             | Chloride as CI   | mg/l  | APHA 4500-CI,B               | 43.0  | 250                               | 1000  |
| 8.             | Sulphate as SO <sub>4</sub>  | mg/l  | APHA 4500-SO <sub>4</sub> E  | 64.9  | 200                               | 400   |
| 9.             | Nitrate as NO <sub>3</sub>   | mg/l  | APHA 4500-NO <sub>3</sub> ,E | 2.29  | 45                                | NR**  |
| 10.            | Calcium as Ca  | mg/l  | APHA 3500-Ca,B               | 52.0  | 75                                | 200   |
| 11.            | Magnesium as Mg  | mg/l  | APHA 3500-Mg.B               | 44.7  | 30                                | 100   |
| 12.            | Sodium as Na   | mg/l  | APHA 3500-Na,B               | 93.0  | *                                 | -   |
| 13.            | Potassium as K   | mg/l  | APHA 3500-K,B                | <10.0   | *                                 | 4   |
| 14.            | Copper as Cu   | mg/l  | APHA 3111-Cu, B              | < 0.05  | 0.05                              | 1.5   |
| 15.            | Dissolved Silica(SiO <sub>2</sub> )  | mg/l  | APHA 4500-Si-C               | 32.50   | -                                 | *   |

Manganese as Mn APHA 3111-Mn,B mg/l \*As per APHA/AWWA, 22nd Ed. (2012) \*\* NR= No relaxation

Chromium as Cr

Iron as Fe

Nickel as Ni

Lead as Pb

Zinc as Zn

16

17

18.

19.

20.

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

:0.05

< 0.3

< 0.02

0.01

0.045

0.05

0.3

0.02

5

0.1

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mg/l

mg/l

mg/l

mg/I

mg/l

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APHA 3111-Cr, B

APHA 3111-Fe,B

APHA 3111-Ni, B

APHA 3111-Pb.B

APHA 3111-Zn, D

5. No deviation as per the Standard Method

Authorized Signatory

NR\*\*

NR\*\*

NR\*\*

15

0.3

VR\*\*

(Dr. Divva Misra) Managing Director

"End of this Test Report

Page Lof 2



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### Test Report for Borewell Water Quality

| Report No. Lab Reference No. |  |  |                         | ),                    | Issue Dat                         |  |
|------------------------------|--|--|-------------------------|-----------------------|-----------------------------------|--|
|                              | BWQ/12(a)/2023   | PCS/IFFCO/0  |                         |                       | 23                                | 25/10/202  |
| Marine Toronto               | Name & Address of Industry   | M/s India  | n Farmers Fertilizer Co | operative             | Limited Phulpur Unit, a           | Allahabad.   |
| 3. S<br>4. S<br>5. V<br>6. L | Type of Industry  Sample Collected by  Sampling Location  Weather Condition  ab Code  Quantity of Sample | Fertilizer<br>Mr Vipin<br>Borewell<br>Clear Sky<br>PCS23/19<br>2 liter | & Mr Sunil              | 8. Method of Sampling |                                   | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023 - 20/10/2023<br>Ms Shivani Chaturvedi |
| SI.                          | Parameters   | Unit   | nit Reference Res       |                       | BIS St                            | andard IS 10500; 2012  |
| No.                          |  |  | Method*                 |                       | Requirement<br>(Acceptable limit) | Permissible limit in the<br>absence of alternate source  |
| 1.                           | Vanadium as V  | mg/l   | APHA 3111-V-B           | < 0.02                | -                                 | No.  |

Note:

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

As per APPLAW WA, 2. In The (1922) "As a Streamform."

As per APPLAW WA, 2. In The Control of the

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(Dr. Divya Misra) Managing Director

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### Test Report for Borewell Water Quality



ULR-TC824123000001683

| Repo   | ort No.                             |   | Lab R   | leference No | ),  | Issue Date   |
|--|-------------------------------------|---|---|--------------|---|--|
| and the same of the same of  | BWQ/13/2023                         | *************************************** | PCS/II  | FCO/03/202   | 23  | 25/10/2023   |
|  | Name & Address of Indus             | stry M/                                 | s Indian Farmers Fertilizer   | Cooperative  | Limited Phulpur Unit.   | Allahabad.   |
| 2. Type of Industry 3. Sample Collected by 4. Sampling Location 5. Weather Condition 6. Lab Code  Fet  Mr  Bo  Cle  PC |                                     |   | rtilizer r Vipin & Mr Sunil prewell-13 ear Sky CS23/187/1199  8. Method of Sampling 9. Date of sampling 10. Sample receipt in lab 11. Date of Analysis 12. Sample Analyzed By liter |              | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |  |
| SI.  | Parameters                          | Unit                                    | Reference   | Result       | BIS S   | tandard IS 10500; 2012                               |
| No.  |                                     |   | Method*   |              | Requirement<br>(Acceptable limit)   | Permissible limit in the absence of alternate source |
| 1.   | pH                                  | _                                       | APHA 4500H+ B   | 7.60         | 6.5 - 8.5   | NR**   |
| 2.   | Conductivity                        | μmhos/e                                 | m APHA 2510-B   | 1740         | ***   |  |
| 3.   | Turbidity                           | NTU                                     | APHA 2130 B   | 0.22         |   | 5  |
| 4.   | TDS                                 | mg/l                                    | APHA 2540 C   | 1055         | 500   | 2000   |
| 5.   | Hardness as CaCO3                   | mg/l                                    | APHA 2340 C   | 421          | 200   | 600  |
| 6.   | Alkalinity as CaCO3                 | mg/l                                    | APHA 2320 B   | 502          | 200   | 600  |
| 7.   | Chloride as Cl                      | mg/l                                    | APHA 4500-CLB   | 175.0        | 250   | 1000   |
| 8.   | Sulphate as SO <sub>4</sub>         | mg/l                                    | APHA 4500-SO <sub>4</sub> ,E  | 108          | 200   | 400  |
| 9.   | Nitrate as NO <sub>3</sub>          | mg/l                                    | APHA 4500-NO <sub>3</sub> ,E  | 3.41         | 45  | NR**   |
| 10.  | Calcium as Ca                       | mg/l                                    | APHA 3500-Ca,B  | 67.0         | 75  | 200  |
| 11.  | Magnesium as Mg                     | mg/l                                    | APHA 3500-Mg,B  | 61.6         | 30  | 100  |
| 12.  | Sodium as Na                        | mg/l                                    | APHA 3500-Na,B  | 204.0        | -   | -  |
| 13.  | Potassium as K                      | mg/l                                    | APHA 3500-K,B   | <10.0        | -   | -  |
| 14.  | Copper as Cu                        | mg/l                                    | APHA 3111-Cu, B   | < 0.05       | 0.05  | 1.5  |
| 15.  | Dissolved Silica(SiO <sub>2</sub> ) | mg/l                                    | APHA 4500-Si-C  | 32.0         | -   | -  |
| 16.  | Chromium as Cr                      | mg/l                                    | APHA 3111-Cr, B   | < 0.05       | 0.05  | NR**   |
| 17.  | Iron as Fe                          | mg/l                                    | APHA 3111-Fe,B  | < 0.3        | 0.3   | NR**   |
| 18.  | Nickel as Ni                        | mg/l                                    | APHA 3111-Ni, B   | < 0.02       | 0.02  | NR**   |
| 19.  | Lead as Pb                          | mg/l                                    | APHA 3111-Pb,B  | 10.0>        | 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  |

21. Manganese as Mn \*As per APHA/AWWA; 22nd Ed. (2012) \*\* NR. No relaxation.

Note:

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

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5 No deviation as per the Standard Method.

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(Dr. Divya Misra) Managing Director

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|  |  | 1 4  | est Report for Bo                       | iewen wai   | er Quanty   |   |  |
|--|--|--|---|---|---|---|--|
| Repo   | ort No.  |  | Lab                                     | Reference No  | ).  | Issue Date  |  |
| and the second section is  | /BWQ/13(a)/2023  |  | PCS/I                                   | FFCO/03/202   | 23 25/10/2  |   |  |
| and the same of th | Name & Address of Industry   | M/s Ind                                    | ian Farmers Fertilizer                  | Cooperative   | Limited Phulpur Unit,   | Allahabad.  |  |
| 2.<br>3.<br>4.<br>5.<br>6.   | Type of Industry Sample Collected by Sampling Location Weather Condition Lab Code Quantity of Sample | Fertilize<br>Mr Vipi<br>Borewe<br>Clear Sl | er<br>in & Mr Sunil<br><del>II-13</del> | 8. Metl<br>9. Date<br>10. Sar<br>11. Dat<br>12. Sar | nod of Sampling<br>e of sampling<br>inple receipt in lab<br>te of Analysis<br>inple Analyzed By | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |  |
| SI.<br>No.   | Parameters   | Unit                                       | Reference<br>Method*                    | Result  | Requirement<br>(Acceptable limit)   | Permissible limit in the absence of alternate source  |  |

Vanadium as V \*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

< 0.02

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mg/l

4. Prakriti Consultants Services is not regulatory agency hence no part of this report should be used for legal purpose under any circumstances.

APHA 3111-V-B

5. No deviation as per the Standard Method.

Authorized Signatory

(Dr. Divya Misra)

Managing Director

"Find of this Test Report"



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### Test Report for Borewell Water Quality



| Repo           | ort No.   |           | Lab I                        | Reference No                  | 0.   | Issue Date  |  |
|----------------|---|-----------|------------------------------|-------------------------------|--|---|--|
| PCS/           | BWQ/14/2023   |           | PCS/II                       | FCO/03/2023 25/10/2023        |  |   |  |
| 1.             | Name & Address of Indu  | istry M/s | Indian Farmers Fertilizer    | Cooperative                   | Limited Phulpur Unit,  | Allahabad.  |  |
| 4.<br>5.<br>6. | ype of Industry ample Collected by ampling Location //eather Condition ab Code  Fertilizer Mr Vipin & Mr Sunil Borewell-14 Clear Sky PCS23/187/1200 |           |                              | 9. Date<br>10. San<br>11. Dat | nod of Sampling<br>of sampling<br>nple receipt in lab<br>c of Analysis<br>nple Analyzed By | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shiyani Chaturyedi |  |
|                | Quantity of Sample  | 2 lite    |                              | D - 4                         | D10 0  | 1. 110 10500 3013   |  |
| SI.<br>No.     | Parameters  | Unit      | Reference<br>Method*         | Result                        | Requirement<br>(Acceptable limit)  | Permissible limit in the absence of alternate source  |  |
| 1.             | рН  | -         | APHA 4500H+ B                | 7.70                          | 6.5 - 8.5  | NR**  |  |
| 2.             | Conductivity  | μmhos/cm  | APHA 2510-B                  | 1160                          | 40 M M   | The De Lay  |  |
| 3.             | Turbidity   | NTU       | APHA 2130 B                  | 0.15                          | 1  | 5   |  |
| 4.             | TDS   | mg/l      | APHA 2540 C                  | 700                           | 500  | 2000  |  |
| 5.             | Hardness as CaCO <sub>3</sub>   | mg/l      | APHA 2340 C                  | 359                           | 200  | 600   |  |
| 6.             | Alkalinity as CaCO <sub>3</sub>   | mg/l      | APHA 2320 B                  | 410                           | 200  | 600   |  |
| 7.             | Chloride as Cl  | mg/l      | APHA 4500-CLB                | 78.0                          | 250  | 1000  |  |
| 8.             | Sulphate as SO <sub>4</sub>   | mg/l      | APHA 4500-SO <sub>4</sub> ,E | 84.0                          | 200  | 400   |  |
| 9.             | Nitrate as NO <sub>3</sub>  | mg/l      | APHA 4500-NO <sub>3</sub> .E | 2.29                          | 45   | NR**  |  |
| 10.            | Calcium as Ca   | mg/l      | APHA 3500-Ca,B               | 53.0                          | 75   | 200   |  |
| 11.            | Magnesium as Mg   | mg/l      | APHA 3500-Mg,B               | 55.0                          | 30   | 100   |  |
| 12.            | Sodium as Na  | mg/l      | APHA 3500-Na,B               | 116.0                         | -  | -   |  |
| 13.            | Potassium as K  | mg/l      | APHA 3500-K,B                | <   0.0                       | -  | -   |  |
|                | 61 63   |           |                              | 0.00                          | 45 75 75   |   |  |

< 0.05

30.60

0.05

:0.3

0.044

0.05

0.05

0.3

0.01

5

0.1

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

14. Copper as Cu

Iron as Fe

Nickel as Ni

21. Manganese as Mn

Lead as Pb

20. Zinc as Zn

16.

17.

18.

19.

Note:

Dissolved Silica(SiO<sub>2</sub>)

Chromium as Cr

Note. It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under acceptable render the water not smable, 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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mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

mg/l

3 The report shall not be used for any other purpose than declared by the Sponsor
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APHA 3111-Cu, B

APHA 4500-Si-C

APHA 3111-Cr. B

APHA 3111-Fe,B

APHA 3111-Ni, B

APHA 3111-Pb,B

APHA 3111-Zn, D

APHA 3111-Mn,B

5 No deviation as per the Standard Method

Authorized Signatory

1.5

NR\*\*

NR\*\*

NR\*\* VR\*\*

15

0.3

(Dr. Divya Misra) Managing Director

Page Lof 2

End of this Test Report



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|  |  | Tes   | st Report for Bore      | well Wat  | er Quality                        |   |
|--|--|---|-------------------------|---|-----------------------------------|---|
| Reno   | rt No.   |   | Lab Re                  | ference No  | ),                                | Issue Date  |
| Committee of the Commit | BWQ/14(a)/2023   |   | PCS/IFF                 | FFCO/03/2023 25/10/2  |                                   |   |
|  | lame & Address of Industry   | M/s India   | n Farmers Fertilizer Co | operative   | Limited Phulpur Unit,             | Allahabad.  |
| 2. 1<br>3. 5<br>4. 5<br>5. V<br>6. I   | ype of Industry ample Collected by ampling Location Veather Condition ab Code Quantity of Sample | Fertilizer<br>Mr Vipin<br>Borewell<br>Clear Sky<br>PCS23/1<br>2 liter | & Mr Sunil<br>I-14<br>y | 8. Method of Sampling 9. Date of sampling 10. Sample receipt in lab 11. Date of Analysis 12. Sample Analyzed By |                                   | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |
| Sl.  | Parameters   | Unit  | Reference               | Result  | BIS St                            | andard IS 10500: 2012   |
| No.  |  |   | Method*                 |   | Requirement<br>(Acceptable limit) | Permissible limit in the<br>absence of alternate source   |
| 1.   | Vanadium as V  | mg/l  | APHA 3111-V-B           | < 0.02  | *                                 | -   |

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

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

Note:

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5. No deviation as per the Standard Mothod

**Authorized Signatory** 

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

"Ind of this Test Report



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### Test Report for Borewell Water Quality



ULR-TC824123000001685

| Repo  | rt No.                              |                   | Lab k  | teference No                  | ),  | Issue Date  |  |  |
|---|-------------------------------------|-------------------|--|-------------------------------|---|---|--|--|
| PCS/  | BWQ/15/2023                         |                   | PCS/II   | FCO/03/20:                    | 25/10/2023  |   |  |  |
| 1.  | Name & Address of Indus             | stry M/s          | s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad. |                               |   |   |  |  |
| <ol> <li>Type of Industry</li> <li>Sample Collected by</li> <li>Sampling Location</li> <li>Weather Condition</li> <li>Lab Code</li> <li>Quantity of Sample</li> </ol> |                                     | Mr<br>Bor<br>Clea | ilizer<br>Vipin & Mr Sunil<br>ewell-15<br>ur Sky<br>23/187/1201<br>er    | 9. Date<br>10. San<br>11. Dat | od of Sampling<br>of sampling<br>uple receipt in lab<br>e of Analysis<br>uple Analyzed By | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |  |  |
| SI.   | Parameters                          | Unit              | Reference  | Result                        | BISS  | landard IS 10500: 2012  |  |  |
| No.   |                                     |                   | Method*  |                               | Requirement<br>(Acceptable limit)   | Permissible limit in the absence of alternate source  |  |  |
| 1.  | pH                                  |                   | APHA 4500H+ B  | 7.65                          | 6.5 - 8.5   | NR**  |  |  |
| 2.  | Conductivity                        | μmhos/cn          | APHA 2510-B  | 1030                          | w h-ps  | ***   |  |  |
| 3.  | Turbidity                           | NTU               | APHA 2130 B  | 0.19                          | 1   | 5   |  |  |
| 4.  | TDS                                 | mg/l              | APHA 2540 C  | 625                           | 500   | 2000  |  |  |
| 5.  | Hardness as CaCO3                   | mg/l              | APHA 2340 C  | 308                           | 200   | 600   |  |  |
| 6.  | Alkalinity as CaCO <sub>1</sub>     | mg/l              | APHA 2320 B  | 370                           | 200   | 600   |  |  |
| 7.  | Chloride as Cl                      | mg/l              | APHA 4500-CLB  | 53.0                          | 250   | 1000  |  |  |
| 8.  | Sulphate as SO <sub>4</sub>         | mg/I              | APHA 4500-SO <sub>4</sub> ,E   | 59.0                          | 200   | 400   |  |  |
| 9.  | Nitrate as NO <sub>5</sub>          | mg/l              | APHA 4500-NO <sub>3</sub> ,E   | 2.52                          | 45  | NR**  |  |  |
| 10.   | Calcium as Ca                       | mg/I              | APHA 3500-Ca,B   | 46.0                          | 75  | 200   |  |  |
| 11.   | Magnesium as Mg                     | mg/I              | APHA 3500-Mg,B   | 46.9                          | 30  | 100   |  |  |
| 12.   | Sodium as Na                        | mg/I              | APHA 3500-Na,B   | 90.0                          |   | -   |  |  |
| 13.   | Potassium as K                      | mg/I              | APHA 3500-K,B  | <10.0                         |   | 4   |  |  |
| 14.   | Copper as Cu                        | mg/l              | APHA 3111-Cu, B  | < 0.05                        | ().()5  | 1.5   |  |  |
| 15.   | Dissolved Silica(SiO <sub>2</sub> ) | mg/l              | APHA 4500-Si-C   | 32.10                         |   | -   |  |  |
| 16.   | Chromium as Cr                      | mg/I              | APHA 3111-Cr, B  | < 0.05                        | 0.05  | NR it sk  |  |  |

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

17

18

19

20.

Note:

Iron as Fe

Nickel as Ni

Lead as Pb

Zinc as Zn

Manganese as Mn

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

< 0.3

< 0.02

< 0.01

0.041

< 0.02

0.3

0.1

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mg/l

mg/l

mg/l

mg/l

mg/1

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APHA 3111-Fe,B

APHA 3111-Ni, B

APHA 3111-Pb,B

APHA 3111-Zn, D

APHA 3111-Mn.B

5. No deviation as per the Standard Method.

Authorized Signatory

NR\*\*

NR \*\*

15

NR\*\*

(Dr. Divya Misra) Managing Director

End of this Test Report



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# Test Report for Borewell Water Quality

| Report No. Lab Re       |  |            |                         |   | ).                                | Issue Date  |  |
|-------------------------|--|------------|-------------------------|---|-----------------------------------|---|--|
| omenimalieros           | /BWQ/15(a)/2023  | -          | PCS/IFF                 | CO/03/202   | 23                                | 25/10/202   |  |
|                         | Name & Address of Industry   | M/s India  | n Farmers Fertilizer Co | ooperative  | Limited Phulpur Unit, A           | Allahabad.  |  |
| 2. 3. 5. 4. 5. 5. 16. I | Type of Industry Sample Collected by Sampling Location Weather Condition Lab Code Quantity of Sample | Fertilizer | & Mr Sunil<br>-15       | 8. Method of Sampling 9. Date of sampling 10. Sample receipt in lab 11. Date of Analysis 12. Sample Analyzed By |                                   | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |  |
| SI.                     | Parameters   | Unit       | Reference               | Result  | BIS St                            | andard IS 10500: 2012   |  |
| No.                     |  |            | Method*                 |   | Requirement<br>(Acceptable limit) | Permissible limit in the<br>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 'neceptable' 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

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

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4. Prakriti Consultants Services is not regulatory agency hence no part of this report should be used for legal purpose under any circumstances

5. No deviation as per the Standard Method

Authorized Signatory

(Dr. Divya Misra) Managing Director

End of this Test Report



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### Test Report for Borewell Water Quality



ULR-TC824123000001686

|                | ort No.  |                               |  | Reference No |   | Issue Date  |  |  |
|----------------|--|-------------------------------|--|--------------|---|---|--|--|
| PCS            | BWQ/16/2023  |                               |  | FFCO/03/202  |   | 25/10/2023  |  |  |
| 1.             | Name & Address of Indu   | stry M/s I                    | /s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.                  |              |   |   |  |  |
| 4.<br>5.<br>6. | Type of Industry Sample Collected by Sampling Location Weather Condition Lab Code Quantity of Sample | Mr V<br>Bore<br>Clear<br>PCS2 | Fertilizer<br>Mr Vipin & Mr Sunil<br>Borewell-16<br>Clear Sky<br>PCS23/187/1202<br>2 liter |              | od of Sampling<br>of sampling<br>ople receipt in lab<br>e of Analysis<br>ople Analyzed By | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |  |  |
| SI.            | Parameters   | Unit                          | Reference  | Result       | BIS S   | tandard IS 10500: 2012  |  |  |
| No.            |  |                               | Method*  |              | Requirement<br>(Acceptable limit)   | Permissible limit in the absence of alternate source  |  |  |
| 1.             | pH   | _                             | APHA 4500H+ B  | 7.20         | 6.5 - 8.5   | NR**  |  |  |
| 2.             | Conductivity   | µmhos/cm                      | APHA 2510-B  | 1070         |   |   |  |  |
| 3.             | Turbidity  | NTU                           | APHA 2130 B  | 0.18         |   | 5   |  |  |
| 4.             | TDS  | mg/l                          | APHA 2540 C  | 645          | 500   | 2000  |  |  |
| 5.             | Hardness as CaCO3  | mg/l                          | APHA 2340 C  | 3.51         | 200   | 600   |  |  |
| 6.             | Alkalinity as CaCO <sub>3</sub>  | mg/l                          | APHA 2320 B  | 420          | 200   | 600   |  |  |
| 7.             | Chloride as Cl   | mg/l                          | APHA 4500-CI,B   | 75.4         | 250   | 1000  |  |  |
| 8.             | Sulphate as SO <sub>4</sub>  | mg/l                          | APHA 4500-SO <sub>4</sub> ,E   | 78.0         | 200   | 400   |  |  |
| 9.             | Nitrate as NO <sub>3</sub>   | mg/l                          | APHA 4500-NO3,E  | 2.16         | 45  | NR**  |  |  |
| 10.            | Calcium as Ca  | mg/l                          | APHA 3500-Ca,B   | 56.0         | 75  | 200   |  |  |
| 11.            | Magnesium as Mg  | mg/l                          | APHA 3500-Mg,B   | 51.3         | 30  | 100   |  |  |
| 12.            | Sodium as Na   | mg/l                          | APHA 3500-Na,B   | 118.0        | -   | -   |  |  |
| 13.            | Potassium as K   | mg/l                          | APHA 3500-K,B  | <10.0        | -   |   |  |  |
| 14.            | Copper as Cu   | mg/l                          | APHA 3111-Cu, B  | < 0.05       | 0.05  | 1.5   |  |  |
| 15.            | Dissolved Silica(SiO <sub>2</sub> )  | mg/l                          | APHA 4500-Si-C   | 33.5         |   | -   |  |  |
| 16.            | Chromium as Cr   | mg/l                          | APHA 3111-Cr, B  | < 0.05       | 0.05  | NR**  |  |  |
| 17.            | Iron as Fe   | mg/l                          | APHA 3111-Fe,B   | < 0.3        | 0.3   | NR**  |  |  |
| 18.            | Nickel as Ni   | mg/l                          | APHA 3111-Ni, B  | < 0.02       | 0.02  | NKna  |  |  |
| 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  |  |  |
| 40.0           |  |                               |  | 0.00         |   |   |  |  |

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

21. Manganese as Mn

Notes

Note: It is recommended that the acceptable limit is to be implemented. Values in excess of those mentioned under acceptable, remier the water not suitable, but still may be releated 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 ofte:

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mg/l

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APHA 3111-Mn,B

5. No deviation as per the Standard Method.

Authorized Signatory

(Dr. Divya Misra) Managing Director

"End of this Test Report



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| Reno   | ort No.  |   | Lab Re                 | ference No                              | ).   | Issue Date  |
|--|--|---|------------------------|---|--|---|
| Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the O | /BWQ/16(a)/2023  |   | PCS/IFFCO/03/2023      |   |  | 25/10/2023  |
| 2.<br>3.<br>4.<br>5.   | Name & Address of Industry Type of Industry Sample Collected by Sampling Location Weather Condition Lab Code | Fertilize<br>Mr Vip<br>Borewe<br>Clear Sl | in & Mr Sunil<br>II-16 | 8. Meti<br>9. Date<br>10. Sar<br>11. Da | Limited Phulpur Unit, a<br>nod of Sampling<br>of sampling<br>uple receipt in lab<br>to of Analysis<br>uple Analyzed By | Allahabad.  As per Standard Method 12/10/2023 13/10/2023 14/10/2023- 20/10/2023 Ms Shivani Chaturvedi |
| 7. SI.   | Quantity of Sample Parameters  | 2 liter<br>Unit                           | Reference              | Result                                  | BIS St   | tandard IS 10500: 2012  |
| No.  |  |   | Method*                |   | Requirement<br>(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

"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.

Note:

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5. No deviation as per the Standard Method.

Authorized Signatory

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GSTIN - 09AAJFP5925G1ZY

#### Test Report for Borewell Water Quality



ULR-TC824123000001687

| Rep | ort No.  |       | La   | b Reference No  | ),  | Issue Date   |
|-----|--|-------|--|-----------------|---|--|
| PCS | /BWQ/17/2023                                       |       | PC   | S/IFFCO/03/202  | 3   | 25/10/2023   |
| 1.  | Name & Address of Industry                         | M/s   | Indian Farmers Fertili   | zer Cooperative | Limited Phulpur Unit.   | Allahabad.   |
|     | Type of Industry<br>Sample Collected by            |       | ilizer<br>Vipin & Mr Sunil   |                 | od of Sampling of sampling                                    | As per Standard Method<br>12/10/2023                 |
| 5.  | Sampling Location<br>Weather Condition<br>Lab Code | Clea  | brewell-17 10. Sample receipt in lab<br>11. Date of Analysis<br>0S23/187/1203 12. Sample Analyzed By |                 | 13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |  |
| 7.  | Quantity of Sample                                 | 2 lit | er   |                 |   |  |
| SL  | Parameters   | Unit  | nit Reference Result   |                 | BISS  | tandard IS 10500: 2012                               |
| No. |  |       | Method*  |                 | Requirement<br>(Acceptable limit)                             | Permissible limit in the absence of alternate source |

|     | Quantity of Sample                  | 2 lite   | f                            | 12. 300 | ipic Analyzed riy                 | vis muvam Chamiyem                                   |
|-----|-------------------------------------|----------|------------------------------|---------|-----------------------------------|--|
| SL  | Parameters                          | Unit     | Reference                    | Result  | BISS                              | andard IS 10500: 2012                                |
| No. |                                     |          | Method*                      |         | Requirement<br>(Acceptable limit) | Permissible limit in the absence of alternate source |
| 1.  | pH                                  | -        | APHA 4500H+ B                | 7.40    | 6.5 - 8.5                         | NR**   |
| 2.  | Conductivity                        | µmhos/cm | APHA 2510-B                  | 1686    |                                   |  |
| 3.  | Turbidity                           | NTU      | APHA 2130 B                  | 0.22    | 1                                 | 5  |
| 4.  | TDS                                 | mg/l     | APHA 2540 C                  | 1020    | 500                               | 2000   |
| 5.  | Hardness as CaCO;                   | mg/l     | APHA 2340 C                  | 414     | 200                               | 600  |
| 6.  | Alkalinity as CaCO,                 | mg/l     | APHA 2320 B                  | 410     | 200                               | 600  |
| 7.  | Chloride as Cl                      | mg/l     | APHA 4500-CLB                | 185     | 250                               | 1000   |
| 8.  | Sulphate as SO <sub>4</sub>         | mg/l     | APHA 4500-SO <sub>4</sub> ,E | 118     | 200                               | 400  |
| 9.  | Nitrate as NO <sub>3</sub>          | mg/l     | APHA 4500-NO <sub>3</sub> ,E | 3.76    | 45                                | NR**   |
| 10. | Calcium as Ca                       | mg/l     | APHA 3500-Ca,B               | 68.8    | 75                                | 200  |
| 11. | Magnesium as Mg                     | mg/l     | APHA 3500-Mg,B               | 58.8    | .30                               | 100  |
| 12, | Sodium as Na                        | mg/l     | APHA 3500-Na,B               | 180     | -                                 | -  |
| 13. | Potassium as K                      | mg/l     | APHA 3500-K,B                | <10.0   |                                   | -  |
| 14. | Copper as Cu                        | mg/I     | APHA 3111-Cu, B              | < 0.05  | 0.05                              | 1.5  |
| 15. | Dissolved Silica(SiO <sub>2</sub> ) | mg/l     | APHA 4500-Si-C               | 29.7    | -                                 | -  |
| 16. | Chromium as Cr                      | mg/l     | APHA 3111-Cr, B              | < 0.05  | 0.05                              | NR**   |
| 17. | Iron as Fe                          | mg/l     | APHA 3111-Fe,B               | < 0.3   | 0.3                               | NR**   |
| 18. | Nickel as Ni                        | mg/l     | APHA 3111-Ni, B              | <0.02   | 0.02                              | NR**   |
| 19. | Lead as Pb                          | mg/l     | APHA 3111-Pb,B               | <0.01   | 0.01                              | NR**   |
| 20. | Zinc as Zn                          | mg/l     | APHA 3111-Zn, D              | 0.044   | 5                                 | 15   |
| 21. | Manganese as Mn                     | mg/l     | APHA 3111-Mn,B               | < 0.02  | 0.1                               | 0.3  |

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

Note:

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 indivated under 'permissible' built 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

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| Repo  | rt No.  |   | Lab Re                  | ference No  |                       | Issue Date  |
|---|---|---|-------------------------|---|-----------------------|---|
| Market Street   | BWQ/17(a)/2023  |   | PCS/IFF                 | 25/10/202   |                       |   |
| CONTRACTOR OF THE PARTY OF THE | Name & Address of Industry  | M/s India   | n Farmers Fertilizer Co | operative '   | Limited Phulpur Unit, | Allahabad.  |
| 3. S<br>4. S<br>5. V<br>6. I  | Type of Industry  Sample Collected by  Sampling Location  Weather Condition  Lab Code  Quantity of Sample | Fertilizer<br>Mr Vipin<br>Borewell<br>Clear Sky<br>PCS23/1<br>2 liter | & Mr Sunil<br>I-17<br>y | 8. Method of Sampling 9. Date of sampling 10. Sample receipt in lab 11. Date of Analysis 12. Sample Analyzed By |                       | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |
| SI.   | Parameters  | Unit  | Reference               | Result  | BIS St                | tandard IS 10500; 2012  |
| No.   |   |   | Method*                 | Requirement<br>(Acceptable limit)   |                       | Permissible limit in the<br>absence of alternate source   |
| 1   | Vanadium as V   | mg/l  | APHA 3111-V-B <0.02 -   |   | -                     | -   |

Note: It is recommended that the acceptable firmt 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 firmts indicated under 'permissible' limit in the absence of alternative source above which the sources will have to be rejected.

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5. No deviation as per the Standard Method

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0.01

### Test Report for Borewell Water Quality



ULR-TC824123000001688

| Repe  | ort No.                             |          | Lab F   | Reference No | 0.  | Issue Date  |  |  |  |
|---|-------------------------------------|----------|---|--------------|---|---|--|--|--|
| PCS/  | BWQ/18/2023                         | W        | PCS/II  | FCO/03/20:   | 23  | 25/10/2023  |  |  |  |
| 1.  | Name & Address of Indus             | stry M/s | M/s Indian Farmers Fertilizer Cooperative Limited Phulpur Unit, Allahabad.  |              |   |   |  |  |  |
| <ol> <li>Type of Industry</li> <li>Sample Collected by</li> <li>Sampling Location</li> <li>Weather Condition</li> <li>Lab Code</li> <li>Quantity of Sample</li> </ol> |                                     |          | Fertilizer Mr Vipin & Mr Sunil Borewell-18 Clear Sky PCS23/187/1204 2 liter |              | od of Sampling<br>of sampling<br>nple receipt in lab<br>e of Analysis<br>nple Analyzed By | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023- 20/10/2023<br>Ms Shivani Chaturvedi |  |  |  |
| SI.   | No.                                 |          | Reference   | Result       | BIS Standard IS 10500: 2012   |   |  |  |  |
| No.   |                                     |          | Method*   |              | Requirement<br>(Acceptable limit)   | Permissible limit in the absence of alternate source  |  |  |  |
| 1.  | рН                                  | -        | APHA 4500H+ B   | 7.70         | 6.5 - 8.5   | NR**  |  |  |  |
| 2.  | Conductivity                        | μmhos/cn | APHA 2510-B   | 840          | ***   | (M. 180-80)   |  |  |  |
| 3.  | Turbidity                           | NTU      | APHA 2130 B   | 0.20         | 1   | 5   |  |  |  |
| 4.  | TDS                                 | mg/l     | APHA 2540 C   | 506          | 500   | 2000  |  |  |  |
| 5.  | Hardness as CaCO <sub>3</sub>       | mg/l     | APHA 2340 C   | 302          | 200   | 600   |  |  |  |
| 6.  | Alkalinity as CaCO <sub>3</sub>     | mg/l     | APHA 2320 B   | 398          | 200   | 600   |  |  |  |
| 7.  | Chloride as Cl                      | mg/l     | APHA 4500-CLB   | 45.0         | 250   | 1000  |  |  |  |
| 8.  | Sulphate as SO <sub>4</sub>         | mg/l     | APHA 4500-SO <sub>4</sub> ,E  | 39.0         | 200   | 400   |  |  |  |
| 9.  | Nitrate as NO <sub>3</sub>          | mg/l     | APHA 4500-NO <sub>3</sub> ,E  | 2.17         | 45  | NR**  |  |  |  |
| 10.   | Calcium as Ca                       | mg/l     | APHA 3500-Ca,B  | 47.6         | 75.   | 200   |  |  |  |
| 11.   | Magnesium as Mg                     | mg/l     | APHA 3500-Mg,B  | 44.5         | 30  | 100   |  |  |  |
| 12.   | Sodium as Na                        | mg/l     | APHA 3500-Na,B  | 94.0         | -   | -   |  |  |  |
| 13.   | Potassium as K                      | mg/l     | APHA 3500-K,B   | <10.0        | -   | -   |  |  |  |
| 14.   | Copper as Cu                        | mg/l     | APHA 3111-Cu, B   | ´<0.05       | 0.05  | 1.5   |  |  |  |
| 15.   | Dissolved Silica(SiO <sub>2</sub> ) | mg/l     | APHA 4500-Si-C  | 30.10        | *   | *   |  |  |  |
| 16.   | Chromium as Cr                      | mg/l     | APHA 3111-Cr, B   | < 0.05       | 0.05  | NR**  |  |  |  |
| 17.   | Iron as Fe                          | mg/l     | APHA 3111-Fe,B  | < 0.3        | 0.3   | NR**  |  |  |  |
| 18.   | Nickel as Ni                        | mg/l     | APHA 3111-Ni, B   | < 0.02       | 0.02  | NR**  |  |  |  |
| 0.00  |                                     |          | I share and a second second second  |              |   |   |  |  |  |

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

Lead as Pb

Zinc as Zn

Manganese as Mn

20.

21.

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. Note:

0.036

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mg/I

mg/l

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APHA 3111-Pb,B

APHA 3111-Zn, D

APHA 3111-Mn.B

5. No deviation as per the Standard Method.

Authorized Signatory

NR\*\*

15

(Dr. Divya Misra) Managing Director

End of this Test Report

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| Reno                  | ort No.   |            | st Report for Borev       | ference No                               | ),   | Issue Date   |  |
|-----------------------|---|------------|---------------------------|--|--|--|--|
| rapida amingram       | BWQ/18(a)/2023  |            | PCS/IFF                   | 23                                       | 25/10/2023   |  |  |
| 2. 3. 5<br>4. 5<br>5. | Name & Address of Industry Type of Industry Sample Collected by Sampling Location Weather Condition | Fertilizer | 1 & Mr Sunil<br>1-18<br>y | 8. Meth<br>9. Date<br>10. San<br>11. Dat | Limited Phulpur Unit, A<br>nod of Sampling<br>of sampling<br>nple receipt in lab<br>te of Analysis<br>nple Analyzed By | As per Standard Method<br>12/10/2023<br>13/10/2023<br>14/10/2023-20/10/2023<br>Ms Shiyani Chaturyedi |  |
|                       | Lab Code<br>Quantity of Sample  | 2 liter    | 07/1207                   | 12.1701                                  |  |  |  |
| SI.<br>No.            | Parameters  | Unit       | Reference<br>Method*      | Result                                   | 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 hand is to be amplemented. Values in excess of those mentioned under acceptable, tender 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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"Lad of this Test Report"

### Observations of Mock Drill Conduced at Urea-1, V-1 Area on 26/06/2023

Date: 27/06/2023

A Mock Drill was conducted on 26-06-2023 at 15:00 hrs. near Urea-1, V-1 Ammonia Receiver area. 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.

- The observer of security at the Factory Main Gate appreciated the quick & proper movement of vehicles such as those of Sr. E.D., 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.
- 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.
- 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:

| SI.<br>No | Observations  | ATR                  |
|-----------|---|----------------------|
| 2.        | Fire Officer Soraon:  Shri Ramai Ram appreciated the response time and preparedness of fire crew & functioning of equipment. He said that the water curtain of the Urea-1 control room was not operated timely. | Shall be fixed soon. |

| 3. | Dr. Anita Mishra:  |  |
|----|--|--|
|    | Dr. Anita Mishra, CMO (Med. & Health services) told that the two casualties came to Occupational Health Center. Relevant treatment was given to all the affected persons. She further told that affected person who was affected by ammonia was checked in Occupational Health Center & kept on strict monitoring to ensure that their vitals function was O.K & normal. In addition to this as per her responsibilities, contact with major hospital of Prayagraj was established.  |  |
| 5. | CSO Col. Dinesh Singh:   |  |
|    | He appreciated the efforts taken by all members of the Security staff. In addition, he appreciated the training given to Security personal from time to time by the F&S Officers team. Total 5 security teams with different side were deputed to tackle emergency during Mock Drill.  |  |
| 6. | JGM (Production).  | •  |
|    | He appreciated the Mock Drill and expressed his gratitude towards all who were part of this successful Mock Drill and reassured that all suggestions will be implemented.  |  |
| 7. | 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. | Sr. E.D. Sir suggestion shall be implemented soon. |

He suggested that the level of the ammonia receiver should also be monitor to calculate the quantity of ammonia released to atmosphere. He also suggested that ERG members should also come in the closing meeting to share about their response and suggestions. He suggested that Emergency control Room, Siren and F&S Control room should be on essential Power. Mock Drill is for awareness purpose and the fleet of buses with IFFCO phulpur to be made available & ready if any mass evacuation if required.

The Ch. Mgr. (F&S) thanked everyone for their participation in the drill and for their valuable observations.

(Sanjiv Kumar Saxena) Ch. Mgr. (F&S)

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