



**INDIAN FARMERS FERTILISER COOPERATIVE LIMITED
KALOL UNIT**

EPC / 02 /3003

Date 23.01.2024

To,

Ministry of Environment, Forest & Climate Change
Regional Office
Aranya Bhavan,
Opp. St. Xaviers School, Near Ch-3 Circle,
Sector – 10/A, Gandhinagar, Gujarat - 382010

Kind Attn.: Dr. Yogesh Kumar, Scientist

Sub: Submission of Six-monthly Compliance Report of the Environmental conditions stipulated in Environmental clearance letter for proposed "Expansion/Modernization of the Fertilizer Plant at Plot no. 712/846, 855, 856 of Saij, 17-37 of Dhanaj, Kasturinagar, Kalol, District- Gandhinagar, Gujarat by M/s Indian Farmers Fertiliser Cooperative Limited.

Ref: EC F. No. J-11011/60/2009-IA-II(I) dtd. 1.2.2021, 24.8.2021 & 7.3.2023

Dear Sir,

IFFCO - Kalol unit has obtained Environmental Clearance(EC) from MoEF&CC vide F.No. J-11011/60/2009-IA-II(I) dtd 1.2.2021, 24.8.2021 & 7.3.2023 for (1) the expansion / modernization of the fertiliser plant (2) Expansion of fertiliser plant by installation of new nano urea plant (3) Expansion of Existing Fertilizer Plant for Manufacturing Nano Fertilizer and Nano Micronutrients respectively at Plot no. 712/846, 855, 856 of Saij, 17-37 of Dhanaj, Kasturinagar, Kalol, District- Gandhinagar, Gujarat.

In this context, as per the conditions laid down in the Environmental Clearance letter, please find attached herewith Six-monthly Compliance report along with all the requisite annexures as per the guidelines of the MoEF&CC

Hope this will fulfil the requirement.

Thanking You,

Yours Faithfully,
For, IFFCO-Kalol unit


(D.G. Inamdar)
Director

Encl : As above

CC: 1) Member Secretary, GPCB, Gandhi Nagar
2) Regional Director, Zonal Office (West), CPCB, Vadodara

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IFFCO Kalol Unit

SIX MONTHLY COMPLIANCE REPORT

Environmental Clearance Vide

F. No. J-11011/60/2009-IA-II(I) dated 07.03.2023,

dated 24.08.2021 and dated 01.02.2021

Submitted By:



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IFFCO Kalol Unit

INDIAN FARMERS FERTILISER COOPERATIVE LIMITED

Kalol Unit, Plot no. 712/846, 855, 856 of Saij, 17 - 37 of Dhanej,
Kasturinagar, Kalol GIDC, District: Gandhinagar,
Gujarat

Subject: Expansion of Existing Fertilizer Plant for Manufacturing Nano Fertilizer and Nano Micronutrients at IFFCO Kalol Unit.

(Reference: Ministry letter No. F. No. J-11011/60/2009-IA-II(I) dtd. 07.03.2023)

Environmental clearance letter is attached as **Annexure - IA.**

TABLE: 1

Sr. No.	Condition	Compliance Status
A. Specific Conditions		
i)	<p>The PP shall develop Greenbelt over an area of at least, 16165.45 m² by planting 40,000 (1st year) number of trees within a period of one year of grant of EC and 15,000 (2nd year) (2024). The saplings selected for the plantation should be of sufficient height, preferably 6-ft (about 2m).</p> <p>The budget earmarked for the plantations shall be kept in separate account and should be audited annually. PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of the expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.</p>	<p>Agreed</p> <p>As a part of increasing tree diversity in the IFFCO Kalol complex premises, Action has already been taken to plant 40,000 nos. tree saplings during the year 2023 and 15,000 nos. tree saplings during the year 2024 .</p> <p>Work order No 5605/ 221004240365 dtd 24.8.2023 has been issued to M/s Heartyculture Natural Products LLP, Ranga Reddy Dist, Telangana for plantation and annual maintenance of tree saplings.</p> <p>Work such as Site cleaning / pruning, uprooting and levelling of identified locations for plantation of tree saplings have been completed within the IFFCO Kalol complex to plant 40000 numbers of tree-saplings using conventional / traditional method.</p> <p>Appropriate marking and digging of about 18000 Nos pits for plantation of tree saplings have been completed and further marking and digging of pits is in progress.</p> <p>40,000 nos. native species/local species of tree saplings have been identified and the agency has supplied about 28000 tree saplings so far.</p> <p>Pits have been prepared for addition of natural growth stimulators like farm yard manure, vermicompost, jeevamrutam, biochar/charcoal, rice husk for better growth of tree sapling after plantation.</p> <p>Some of the photographs of above mentioned activities are attached herewith as Annexure – I.</p>

Sr. No.	Condition	Compliance Status
ii)	<p>A separate Environmental Management Cell (having qualified persons 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 by engaging Director - environment officials, in addition to this, one safety & health officer as per the qualification given in Factories Act, 1948 shall be engaged within a month of grant of EC. The PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.</p>	<p>Yes, IFFCO Kalol is having separate Environment & Pollution Control Dept. headed by Jt. GM (EPC) with Chemical Engg / Environmental Science qualified staff. Unit has full-fledged laboratory facilities with set up to carry out the environmental management / monitoring functions.</p> <p>Complex is having full-fledged Fire & Safety Dept with professionally qualified, experienced & skilled staff. Safety Officer as per the qualification given in Factories Act, 1948 is already working in the complex.</p> <p>Full-fledged Occupational Health center with 3 full time doctors and paramedical staff available round the clock. Details are attached as Annexure - II.</p>
iii)	<p>The company 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. The budget proposed under EMP [Rs. 932.9 lakhs (Capital cost) and Rs. 116 lakhs (Recurring cost)] shall be kept in a separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.</p>	<p>IFFCO-Kalol unit complies with all environmental protection measures and safeguards proposed in EIA Report. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project have been implemented.</p> <p>With reference to the status of proposed EMP, details are as under.</p> <ol style="list-style-type: none"> 1) For the plantation of 40000 nos. of tree saplings, work order No 5605/ 221004240365 dtd 24.8.2023 has been issued to M/s Heartyculture Natural Products LLP, Ranga Reddy Dist, Telangana. 2) As a part of supply and installation of Effluent Treatment System (ZLD Package) for treatment of 35 m³/day of effluent from Nano expansion project, Purchase order No 5605/ 221004230623 dtd 6.2.2023 has been issued to M/s Tevoren Technologies LLP, Ahmedabad. The photographs of ETS installed at site are attached as Annex - I a. 3) In order to execute EMP such as Installation of Effluent Treatment System (ETS) and Plantation of 40000 nos. of tree saplings, separate budget has been allocated under Capital budget code 6220101 and same is being utilized for execution of project. Also revenue budget for operation of ETS and AMC for maintenance of trees samplings has been allocated for the year 2023 - 24.



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Sr. No.	Condition	Compliance Status
iv)	<p>The total freshwater requirement after expansion will be 10190 KLD (in Phase-I) and 10614 KLD (in Phase-II). Fresh water will be met by Sardar Sarovar Narmada Nigam Ltd. (SSNNL). The PP should ensure that water supply should not be above the permissible limit as mentioned in the letter and fresh water shall be withdrawal only after obtaining prior agreement from the Concerned Authority. The PP should submit the details of utilization to the Integrated Regional Office (IRO), MoEF&CC before 1st July of every year for the activities carried out during the previous year.</p>	<p>Total freshwater requirement is as per EC No F.j11011/60/2009-IA-II(I) dtd 7.3.2023 which is well within the prescribed limit of 10190 KLD (in Phase I) at IFFCO Kalol.</p> <p>Average daily freshwater consumption for the period April 2023 to September 2023 is 9923 m³/day</p> <p>Also, as per Charter on “Corporate Responsibility for Environment Protection (CREP), limit of specific water consumption fixed for gas-based fertilizer plants is 8 m³/MT of urea. Specific water consumption for the period from April 2023 – Sept 2023 was 6.27 m³/ MT considering annual Turnaround in April 2023. Same is also within the prescribed limit.</p> <p>The unit is having valid agreement with M/s Sardar Sarovar Narmada Nigam Ltd (SSNNL) for supply of Narmada Canal Water and is valid up to 22/02/2026.</p>
v)	<p>No banned chemicals shall be manufactured by the PP. No banned raw materials shall be used in the unit. The PP shall adhere to the notifications/guidelines of the Government in this regard.</p>	<p>Noted & agreed</p>

Sr. No.	Condition	Compliance Status
vi)	The PP 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.	<p>IFFCO is one of India's biggest cooperative societies which is wholly owned by Indian Cooperatives. IFFCO has been diligent to make its plants energy efficient and continuously works to conserve energy.</p> <p>Implementation of energy and resource conservation measures is an ongoing process at IFFCO-Kalol. The unit has adapted several measures to conserve energy & natural resources. Implementation of various energy saving schemes have resulted in reduction in Natural gas consumption by 47600 SM³/day, raw water consumption by 600 m³/day and CO₂ emission reduction by 97 MT/day. Also Specific energy consumption per MT of urea for the past five years is on a downward trend.</p> <p>Process Air Compressor Turbine was replaced with new Siemens Make turbine in April 2021 with higher efficiency at the cost of Rs. 14 crores. This has resulted in MP steam saving of 4.8 MT /hr and Fuel saving of 7250 SM³/day.</p> <p>Apart from above, 1970.98 MW of power was generated by Solar energy during the year 2022 - 23 (equivalent to 642 MT of CO₂ emission reduction @ 0.7 kg CO₂/KWh). 538.994 MW of power was generated by Solar energy during the April 2023 to September 2023.</p> <p>Moreover, the newly proposed technology i.e., Nanotechnology is the latest development in R&D of IFFCO that has become proven to manufacture nano fertilizers without emitting pollution into the environment and thereby will reduce carbon footprint. Additionally, CO₂ recovery plant will also be installed in expansion (in case of lean gas) to collect CO₂ from flue gases to increase urea production and reduced CO₂ emission. In this way, IFFCO is already working thoroughly in reducing overall carbon footprint.</p>

Sr. No.	Condition	Compliance Status
vii)	The project proponent shall comply with the environment norms for Fertilizer as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 1607(E), dated 29.12.2017 under the provisions of the Environment (Protection) Rules, 1986.	IFFCO-Kalol unit complies with all environmental protection measures and safeguards proposed in EIA Report. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project have been implemented.
viii)	All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The PP shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation 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 Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.	<p>IFFCO Kalol is having full-fledged dedicated Fire & Safety Department with qualified and experienced Fire Staff available round the clock to control/mitigate any emergency.</p> <p>No major accidents have been registered in the industry during the said period. IFFCO - Kalol unit has achieved the longest accident-free days of 4468 as on 30.09.2023.</p> <p>Measures adopted to prevent disaster, disaster management planning, risk assessment have been addressed in onsite and offsite Emergency plan of IFFCO - Kalol unit. Relevant page is attached as Annexure - III.</p> <p>Mutual aid facilities of neighboring industries i.e. ONGC and GAIL, Kadi. Details of Disaster Management & Preventive Measures are mentioned in Annexure - IV.</p>
ix)	The volatile organic compounds (VOCs)/ Fugitive emissions shall be controlled at 99.97 % with effective chillers/modem technology. Regular monitoring of VOCs shall be carried out.	<p>There are no Volatile organic compounds (VOCs) in the manufacturing process in the complex.</p> <p>For control of fugitive emissions, dust extraction systems with scrubber have been installed in product handling plant. Refer Annexure – V.</p>
x)	The PP shall explore possibilities for recycling and reusing of treated water in the unit to reduce the fresh water demand and waste disposal.	Yes, IFFCO Kalol Unit has implemented major pollution abatement measures for recycling and reusing of treated water and optimum utilization of Raw/ Fresh water. Details are mentioned in Annexure – VI.

Sr. No.	Condition	Compliance Status
xi)	As committed by the PP, Zero Liquid Discharge shall be ensured. The domestic wastewater shall be partially treated in the existing ETP and flushing wastewater shall be discharged to soak pits. ETP plant shall be installed total capacity of 35 KLD. Out of 35 KLD, MEE, Stripper and AFFD will have capacity of 25 KLD. Treated water shall be reused for horticulture/ gardening/ green belt development purposes.	<p>There is no discharge of treated water outside the plant premises. The domestic wastewater is partially treated in the existing ETP, and flushing wastewater is discharged to soak pits. ETP plant of 35 KLD capacity has already been installed at the Nano Fertiliser unit.</p> <p>The photographs of ETS installed at Nano Fertiliser unit is attached as Annexure – I a.</p>
xii)	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 servers. 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.	<p>In compliance to CPCB direction regarding OCEMS, IFFCO Kalol installed PM Analyzer (Make: Durag) at ID Fan stack of Urea prill tower on 1.9.2016 on trial basis. It was observed that trials runs were not successful and same was communicated to the supplier M/s Adage Automation. In response to it, a representative from Adage Automation visited site and removed the same from prill tower ID Fan on 15.2.2018. This was communicated to CPCB vide our E-Mail under the subject. "OCEMS Compliance reporting protocol" Copy of the E-Mail msg and letter sent to CPCB is attached herewith as Annexure - VII.</p> <p>A continuous online monitoring system have been installed for measurement of pH, Ammonical nitrogen and flow and Data logger have been connected with CPCB & GPCB servers. Photographs of the same are attached as Annexure - VIII.</p> <p>Blind has been installed at the downstream valve, over final discharge line of treated water from ETP going outside the plant premises. Flow meters have already been provided on the treated effluent final discharge pipeline of ETP.</p>
xiii)	The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.	<p>The toxic/hazardous raw materials are stored/ maintained with bare minimum with respect to quantity and inventory.</p> <p>Details of stock of toxic/hazardous raw materials with quantity attached as Annexure – IX.</p>

Sr. No.	Condition	Compliance Status
xiv)	The occupational health Centre 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 required safety kits/mask for personal protection.	<p>IFFCO Kalol has full-fledged Occupational Health center with 3 full time doctors and paramedical staff available round the clock. Details of the medical facilities at Occupational Health center is attached as Annexure - X.</p> <p>Pre-employment and periodical medical examinations of the employees are carried out. Health data is used as reference for deploying the duties of the workers. Medical checkup report (as per Form 32) of Employee & Contract Workmen are attached as Annex - X A & B.</p> <p>All required PPE's have been provided to all employees while doing the job. List of PPE's available at various areas in the Plant is attached as Annexure - XI.</p>
xv)	Proper Ventilation with adequate air change cycle shall be made for healthy working environment for the workers. Work Zone monitoring should be done for VOC.	<p>There are no Volatile organic compounds (VOCs) in the manufacturing process in the complex.</p> <p>For control of fugitive emissions, dust extraction systems with scrubber have been installed in product handling plants. Refer Annexure - V.</p>
xvi)	Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.	<p>Yes, periodically training on various safety & health aspects of chemicals handling is being imparted to all employees.</p> <p>Details with photographs of training provided to employees is attached as Annexure - XII.</p>
xvii)	The unit shall make the arrangement for the protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.	<p>IFFCO Kalol has an efficient and effective fire prevention and firefighting system to mitigate any emergency during manufacturing process of Urea & Nano fertilizers and in material handling. Details of the Fire & Safety system available at IFFCO Kalol is attached as Annexure - XIII.</p>
xix)	The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water 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.	<p>Rainwater harvesting system has already been installed at township and outside the plant premises near Union Office, details of which is attached as Annexure - XIV.</p> <p>Process effluent / any wastewater is not allowed to mix with storm water.</p>

Sr. No.	Condition	Compliance Status
xx)	The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.	<ul style="list-style-type: none"> • Specific vessels / tanks have Process & Instrument control valves for controlled use of active ingredients/ chemicals and to minimize the waste. • Urea dust collected from cyclone separators of prill cooling system is dissolved in a tank and is reused in the Urea manufacturing process. • IFFCO Kalol unit is having automatic weighing & filling system in product handling plant to minimize spillage. • IFFCO Kalol Unit is having close feed system for production of Nano fertilisers and Diesel Exhaust Fluid (DEF) in urea plant. • Vent scrubber (V-1207) has been installed to scrub off, off-gases from Ammonia scrubber (V-1203) to recover ammonia, so as to minimize ammonia release to the atmosphere. Gases from the Vent scrubber contain less than 100 mg/Nm³ ammonia as against the permissible limit of 175 mg/Nm³ specified in the consent Order. • Good quality and high-pressure hoses are in use for cleaning purposes and to reduce waste water generation.
xxi)	The Plastic Waste Management (Amendment) Rules, 2022 shall be duly complied w.r.t Extended Producer Responsibility (EPR) target as a brand owner.	Registration certificates of IFFCO as a brand owner for Ammonia-Urea complex and as a Producer for Nano Fertiliser Unit are attached as Annexure - XV A & B .
xxii)	The activities and the action plan proposed by the project proponent to address the issues raised during the public hearing as well as the related socio-economic issues in the study area shall be completed as per the schedule presented before the Committee and as described in the EIA report in letter and spirit.	<p>As committed in EIA Report, CER fund has been allocated for implementation of various CER activities in upcoming 4 years.</p> <p>Allocated fund for the first year 2021-22 was Rs.24 lakhs and the amount of Rs. 24 lakhs were spent during the year, allocated fund for the second year 2022-23 was Rs.20 lakhs, But Rs. 27 lakhs were spent during the second year (2022-23). Allocated fund for the third year 2023 - 24 is Rs.10 lakhs, But Rs. 21.54 lakhs were spent during April 2023 – September 2023 due to additional requirement. (Ref. Table No 1.1 of Annex XVIII).</p>

Sr. No.	Condition	Compliance Status
General Conditions		
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 alterations 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.	Noted, no further expansion / modification shall be carried out without prior approval from MOEF & CC, as applicable.
ii)	The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import 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) Rules, 2016 and other rules notified under various Acts.	<p>All relevant clause of under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 are complied and the Complex is having full-fledged Fire & Safety Dept with professionally qualified, experienced & skilled staff.</p> <p>IFFCO Kalol has an efficient and effective fire prevention and firefighting system to mitigate any emergency during manufacturing process Ammonia, Urea & Nano fertilisers. Details of the Fire & Safety system available at IFFCO Kalol is attached as Annexure – XIII.</p> <p>Measures adopted to prevent disaster, disaster management planning, risk assessment have been addressed in onsite and offsite Emergency plan of IFFCO - Kalol unit. Relevant page is attached as Annexure - III.</p> <p>Mutual aid facilities of neighboring industries i.e. ONGC and GAIL, Kadi have been made.</p> <p>Details of Disaster Management & Preventive Measures are mentioned in Annexure - IV.</p>
iii)	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.	<p>All light fittings used for lighting purpose are LED type in Plant area, office buildings and residential township. Details of measures implemented for Energy Conservation during last 03 Years is attached as Annexure - XVI.</p> <p>Apart from above, 1970.98 MW of power was generated by Solar energy during the year 2022 - 23 (equivalent to 642 MT of CO₂ emission reduction @ 0.7 kg CO₂/KWh). 538.994 MW of power was generated by Solar energy during the April 2023 to September 2023.</p>

Sr. No.	Condition	Compliance Status
iv)	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 (night time).	Yes, the overall noise levels in and around the plant area is well within the standards. Details of noise control measures installed at source of noise generation and Latest noise level monitoring report issued by M/s AWH Laboratory, Ahmedabad (NABL accredited Lab) is attached as Annexure – XVII .
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.	As committed in EIA Report, CER fund has been allocated for implementation of various CER activities in upcoming 4 years. Allocated fund for the first year 2021-22 was Rs.24 lakhs and the amount of Rs. 24 lakhs were spent during the year, allocated fund for the second year 2022-23 was Rs.20 lakhs, But Rs. 27 lakhs were spent during the second year (2022-23). Allocated fund for the third year 2023 - 24 was Rs.10 lakhs, But Rs. 21.54 lakhs were spent during April 2023 – September 2023 due to additional requirement. (Ref. Table No 1.1 of Annex XVIII).
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, Forest 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.	Every year IFFCO Kalol earmark sufficient funds towards capital cost and recurring cost per annum to implement environment management/ operate existing pollution control measures. These funds are not diverted for any other purpose.
vii)	A copy of the clearance letter shall be sent by the project proponent to concerned 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.	There were no suggestions / representations received from the concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local Body and the local NGO while processing the proposal. However, one copy each of Environment clearance letter has been given to Sarpanch of nearby villages. Copies of receipt of Acknowledgement are attached as Annex- XIX .

Sr. No.	Condition	Compliance Status
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 copy of Environmental Clearance and six-monthly compliance status report shall be posted on the website of the company.	Noted, IFFCO Kalol Unit started submission of six-monthly compliance report of EC conditions to Regional Office of MOEF & CC, Zonal office of CPCB & GPCB from June 2021 onwards. Copy of Environmental Clearance and six-monthly compliance status report have been posted on the website of IFFCO.
ix)	The environmental statement for each financial year ending 31 st 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.	Yes, every year the environmental statement for each financial year ending 31 st March in Form - V is submitted to GPCB. Copy of Environmental statement (Form V) for Year 2022 - 23 submitted to GPCB is attached as Annexure - XX . Same will be put on the IFFCO website along with the status of compliance of environmental clearance conditions. Soft copy of same is being sent to Regional Office of MoEF&CC, Gandhinagar by email.
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 https://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	IFFCO had advertised information related to Environment clearance on dtd 15 th March 2023, in two local newspapers one in Gujarati and another in English. Copies of advertisement published in Newspapers, such as Divya Bhaskar dtd. 15/3/2023 and Times of India dtd. 15/3/2023 are attached as Annexure – XXI .
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.	CTE No. 61798 dtd 13/03/2023 obtained from GPCB for Expansion of Existing Fertilizer Plant for Manufacturing Nano Fertilizer and Nano Micronutrients. CTO / Amendment to CCA No GPCB/CCA-GNR-95(12)/ID-16444/757582 dtd 1.11.2023 with validity upto 10.3.2028, obtained from GPCB
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 this project.	Noted



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IFFCO Kalol Unit

**Subject: Expansion of Fertiliser Plant by installation of New Nano Urea Plant
at IFFCO Kalol Unit.**

(Reference: Ministry letter No. F. No. J-11011/60/2009-IA-II(I) dtd. 24th August, 2021)

Environmental clearance letter is attached as **Annexure IB.**

TABLE: 2

SNo	Conditions	Compliance Status
Specific Conditions		
i)	All the specific and general conditions stipulated in the environmental clearance dated 1 st February, 2021 shall be complied in letter and spirit.	All the specific and general conditions stipulated in the environmental clearance dated 1 st February 2021 have been complied and updated the compliance status report.
	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 IRO, MoEFCC in this regard.	<p>IFFCO is one of India's biggest cooperative societies which is wholly owned by Indian Cooperatives. IFFCO has been diligent to make its plants energy efficient and continuously works to conserve energy. Implementation of energy and resource conservation measures is an ongoing process at IFFCO-Kalol. The unit has adapted several measures to conserve energy & natural resources. Implementation of various energy saving schemes have resulted in reduction in Natural gas consumption by 47600 SM³/day, raw water consumption by 600 m³/day and CO₂ emission reduction by 97 MT/day. Also, Specific energy consumption per MT of urea for the past five years is on a downward trend.</p> <p>Process Air Compressor Turbine was replaced with new Siemens Make turbine in April 2021 with higher efficiency at the cost of Rs. 14 crores. This has resulted in MP steam saving of 4.8 MT /hr and Fuel saving of 7250 SM³/day.</p> <p>Apart from above, 1970.98 MW of power was generated by Solar energy during the year 2022 - 23 (equivalent to 642 MT of CO₂ emission reduction @ 0.7 kg CO₂/KWh). 538.994 MW of power was generated by Solar energy during the April 2023 to September 2023.</p> <p>Moreover, the newly proposed technology i.e., Nanotechnology is the latest development in R&D of IFFCO that has become proven to manufacture nano fertilisers without emitting pollution into environment and thereby will reduce carbon footprint. Additionally, CO₂ recovery plant will also be installed in expansion (in case of lean gas) to tap CO₂ from flue gases to increase urea production and reduce CO₂ emission. In this way, IFFCO is already working for reducing overall carbon footprint.</p>

Sr. No.	Conditions	Compliance Status
iii)	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the addendum to the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.	IFFCO-Kalol unit complies with all environmental protection measures and safeguards proposed in EIA Report. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project have been implemented.
iv)	Total fresh water requirement shall not exceed 10069 KLD (in Phase I) and 10493 KLD (in Phase II). Prior permission in this regard shall be obtained from the concerned regulatory authority.	<p>Total freshwater requirement is as per EC No F. 11011/60/2009-IA-II(I) dtd 24.8.2021 which is well within the prescribed limit of 10190 KLD (in Phase I) at IFFCO Kalol.</p> <p>Average daily freshwater consumption for the period April 2023 to September 2023 is 9923 m³/day</p> <p>Also, as per Charter on “Corporate Responsibility for Environment Protection (CREP), limit of specific water consumption fixed for gas-based fertilizer plants is 8 m³/ MT of urea. Specific water consumption for the period from April 2023 – Sept 2023 was 6.27 m³/ MT considering annual Turnaround in April 2023. Same is also within the prescribed limit</p> <p>The unit is having valid agreement with M/s Sardar Sarovar Narmada Nigam Ltd (SSNNL) for supply of Narmada Canal Water and is valid up to 22/02/2026.</p>
v)	No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.	Noted and agreed
vi)	As proposed, at least Rs. 36.5 lakhs shall be earmarked for conservation plan and shall be implemented in coordination with State Forest & Wildlife Department / Local Village Administration.	Rs. 36.5 lakhs have been earmarked for wildlife conservation plan After review by the Range Forest Officer, Kadi Wildlife Range, Revised wildlife conservation plan incorporating GPS location has already been submitted for approval of the plan.

(Reference: Ministry letter No. F. No. J-11011/60/2009-IA-II(I) dated 1st February, 2021)

Environmental clearance letter is attached as **Annexure I C.**

TABLE: 3

Sr. No.	Conditions	Compliance Status
Specific Conditions		
i)	The company 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	IFFCO-Kalol unit complies with all environmental protection measures and safeguards proposed in EIA Report. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project have been implemented.
ii)	As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development.	There is no discharge of treated water outside the plant premises.
iii)	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.	<p>In compliance to CBCB direction regarding OCEMS, IFFCO Kalol installed PM Analyzer (Make: Durag) at ID Fan stack of Urea prill tower on 1.9.2016 on trial basis. It was observed that trial runs were not successful and same was communicated to the supplier M/s Adage Automation. In response to it, a representative from Adage Automation visited site and removed the same from prill tower ID Fan on 15.2.2018. This was communicated to CPCB vide our E-Mail under the subject. "OCEMS Compliance reporting protocol" Copy of the E-Mail msg and letter sent to CPCB is attached as Annexure - VII.</p> <p>Continuous online monitoring system have been installed for measurement of pH, Ammonical nitrogen & flow and Data logger have been connected with CPCB & GPCB servers. Photographs of the same are attached as Annexure - VIII.</p> <p>Blind has been installed at the downstream valve, over final discharge line of treated water from ETP going outside the plant premises. Flow meters have already been provided on treated effluent final discharge pipeline of ETP.</p>

Sr. No.	Conditions	Compliance Status
iv)	The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.	The toxic/hazardous raw materials are stored/ maintained with bare minimum with respect to quantity and inventory. Details of stock of toxic/hazardous raw materials with quantity attached as Annexure – IX.
v)	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 required safety kits/mask for personal protection.	IFFCO Kalol has full-fledged Occupational Health center with 3 full time doctors and paramedical staff available round the clock. Details of the medical facilities at Occupational Health center is attached as Annexure - X. Pre-employment and periodical medical examinations of the employees are carried out. Health data is used as reference for deploying the duties of the workers. Medical checkup report (as per Form 32) of Employee & Contract Workmen are attached as Annexure – X A & B. All required PPE's have been provided to all employees while doing the job. List of PPE's available at various areas in the Plant is attached as Annexure – XI.
vi)	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.	Training on various safety and health aspects of chemicals handling has been regularly imparted to employees and contract workmen. Practical training on firefighting and emergency handling is also conducted periodically. Refresher Fire & Safety training is being imparted to all employees and contract workmen every year. photographs of Safety and visual reality training provided to employees is attached herewith as Annexure – XII.
vii)	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.	IFFCO Kalol is having full-fledged Fire & Safety Dept. with professionally qualified, experienced & skilled staff. IFFCO Kalol has efficient and effective fire prevention and firefighting system to mitigate any emergency during manufacturing processes of Urea & Nano fertilizers. Details of the Fire & Safety system available at IFFCO Kalol is attached as Annexure – XIII.

Sr. No.	Conditions	Compliance Status
viii)	Safety and risk assessment studies shall be conducted and action plan and mitigation measures shall be properly implemented.	<p>Safety and risk assessment studies of IFFCO Kalol have been conducted during Dec 2018 to Jan 2019 by M/s iFluid Engineering, Chennai. Observation and recommendation/mitigation measures have been implemented.</p> <p>Safety audit is being carried out as per the Statutory requirements. Last safety audit was conducted by Safety Consultancy Services, Ahmedabad during 6th to 8th November 2023.</p>
ix)	<p>Solvent management shall be carried out as follows:</p> <p>(a) Reactor shall be connected to chilled brine condenser system.</p> <p>(b) Reactor and solvent handling pump shall have mechanical seals to prevent leakages.</p> <p>(c) Solvents shall be stored in a separate space specified with all safety measures.</p> <p>(d) Proper earthing shall be provided in all the electrical equipment wherever solvent handling is done.</p> <p>(e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses.</p> <p>(f) All the solvent storage tanks shall be</p>	Not Applicable, as there is no usage of solvent in the manufacturing process in the complex.
x)	Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.99% with effective chillers/modern technology.	<p>There are no Volatile organic compounds (VOCs) in the manufacturing process in the complex.</p> <p>For control of fugitive emissions, dust extraction systems with scrubber have been installed in product handling plant. Refer Annexure – V.</p>
xi)	Total fresh water requirement shall not exceed 10371 cum/day proposed to be met from existing water supply from Narmada canal to the IFFCO Kalol unit. Necessary permission in this regard shall be obtained from the concerned regulatory authority, and renewed from time to time.	<p>Average daily freshwater consumption for the period April 2023 to September 2023 was 9923 m³/day which is within the prescribed limit.</p> <p>The unit is having valid agreement with M/s Sardar Sarovar Narmada Nigam Ltd (SSNNL) for supply of Narmada Canal Water and is valid up to 22/02/2026. Copy of agreement is attached herewith as Annexure - XXII.</p>



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Sr. No.	Conditions	Compliance Status
xii)	Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water 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 system has already been installed at township and outside the plant premises near Union Office, details of which is attached as Annexure – XIV . Process effluent / any wastewater is not allowed to mix with storm water.
xiii)	The company shall undertake waste minimization measures as below	
	(a) metering and control of quantities of active ingredients to minimize waste;	Specific vessels / tanks are having Process & Instrument control valves for controlled use of active ingredients/ chemicals and to minimize the waste.
	(b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.	Urea dust collected from cyclone separators of prill cooling system is dissolved and reused in the Urea manufacturing process.
	(c) Use of automated filling to minimize spillage.	IFFCO Kalol unit is having automatic weighing & filling system in product handling plant to minimize spillage.
	(d) Use of Close Feed system into batch reactors.	IFFCO Kalol Unit is having close feed system for production of Nano fertilizers and Diesel Exhaust Fluid (DEF) in urea plant.
	(e) Venting equipment through vapor recovery system.	Vent scrubber (V-1207) has been installed to scrub off off-gases from Ammonia scrubber (V-1203) to recover ammonia, so as to minimize ammonia release to the atmosphere. Gases from the Vent scrubber contain less than 100 mg/Nm ³ ammonia as against the permissible limit of 175 mg/Nm ³ specified in the consent Order.
	(f) Use of high-pressure hoses for equipment clearing to reduce wastewater generation.	Good quality and high-pressure hoses are in use for cleaning purpose and to reduce wastewater generation.



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IFFCO Kalol Unit

Sr. No.	Conditions	Compliance Status
xiv)	<p>The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.</p> <p>Records of tree canopy shall be monitored through remote sensing map.</p>	<p>Existing Green area at IFFCO Kalol complex is 46.6257 Ha which is 48.81 % of total area of 95.5 Ha covered under green belt. Photographs showing green area in the complex are attached as Annexure - XXIII.</p> <p>Plantation activity in and around the plant is ongoing activity. During the Year 2022-2023, 4000 samplings were planted in Plant premises and Township.</p> <p>Work order No 5605/ 221004240365 dtd 24.8.2023 has been issued to M/s Heartyculture Natural Products LLP, Ranga Reddy Dist, Telangana for plantation and annual maintenance of tree saplings.</p> <p>Work such as Site cleaning / pruning, uprooting and levelling of identified locations for plantation of tree saplings have been completed within the IFFCO Kalol complex to plant 40000 numbers of tree-saplings using conventional / traditional method.</p> <p>Appropriate marking and digging of about 18000 Nos pits for plantation of tree saplings have been completed and further marking and digging of pits is in progress.</p> <p>40,000 nos. native species/local species of tree saplings have been identified and the agency has supplied about 28000 tree saplings so far.</p> <p>Pits have been prepared for addition of natural growth stimulators like farm yard manure, vermicompost, jeevamrutam, biochar/charcoal, rice husk for better growth of tree sapling after plantation.</p> <p>Some of the photographs of above mentioned activities are attached herewith as Annexure – I.</p>
xv)	<p>The activities and the action plan proposed by the project proponent to address the socio-economic 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.</p>	<p>As committed in EIA Report, CSR fund has been allocated for implementation of various CSR activities in upcoming 4 years. Details of amount spent for last two years is mentioned in Table No 1.1 of Annex XVIII (Ref; point no. xxii on page 9 of 23 of this compliance report).</p> <p>Allocated budget for EMP regarding implementation of Water pollution control scheme and Green belt development have been utilized (Ref; point no. xiv on page 19 of 23 of this compliance report).</p>



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IFFCO Kalol Unit

Sr. No.	Conditions	Compliance Status
xvi)	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.	Yes, IFFCO Kalol is having separate Environment & Pollution Control Dept. headed by Jt. GM (EPC) with Chemical Engg / Environmental Science qualified staff. Unit is having full-fledged laboratory facilities with set up to carry out the environmental management / monitoring functions. Details are attached as Annexure - II .
General Conditions		
(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 alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted, no further expansion / modification shall be carried out without prior approval from MOEF & CC, as applicable.
(ii)	The energy source for lighting purpose shall be preferably LED based or advance having preference in energy conservation and environment betterment.	All light fittings used for lighting purpose are LED type in Plant area, office buildings and residential township. So far, solar panels of 1470 KWP capacity have been installed over various buildings in plants and township. 1970.98 MW of power was generated by Solar energy during the year 2022 - 23 (equivalent to 642 MT of CO ₂ emission reduction @ 0.7 kg CO ₂ /KWh). 538.994 MW of power was generated by Solar energy during the April 2023 to September 2023.
(iii)	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Three ambient air quality monitoring stations have been set up in the complex considering upwind, downwind direction and maximum ground level concentrations. Ambient air quality monitoring data is submitted on a monthly basis to GPCB, Gandhinagar. All parameters are within limit. Ambient Air Quality monitoring was carried out by M/s AWH Laboratory, Ahmedabad (NAB accredited Lab) in the month of September, 2023. Copy of reports of which are attached as Annexure XVII – A .



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IFFCO Kalol Unit

Sr. No.	Conditions	Compliance Status
(iv)	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.	Accepted and is followed.
(v)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act 1986 Rules 1989 viz. 75 dBA (day time) and 70 dBA (night time).	Yes, overall noise levels in and around the plant area is well within the standards. Details of noise control measures installed at source of noise generation and Latest noise level monitoring report is attached as Annexure – XVII.
(vi)	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and to utilize the same for process requirements.	Rainwater from Roof tops of Nano fertilizer unit is recharged to ground water through six numbers of recharging wells. Rainwater harvesting system has already been installed at township and outside the plant premises near Union Office (Ref: Annexure - XIV) to collect the rainwater/storm water and to recharge the ground water.
(vii)	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre- employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.	Yes, periodically training on various safety & health aspects of chemicals handling is being imparted to all employees. Details with photographs of training provided to employees is attached as Annexure – XII. Pre-employment and routine periodical medical examinations (Physical examination, Urine Routine examination, Hematology, LFT, Blood Sugar, chest x rays, Audiometry, Spirometry, Vision testing, ECG etc.) of employee and contract workmen is undertaken on regular basis to analyze the health status. Records of the same have been maintained. Sample copies of medical check-up reports of employee & Contract Workmen are attached as Annexure - X A&B.

Sr. No.	Conditions	Compliance Status
(viii)	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.	Accepted. As committed in EIA Report, CSR fund has been allocated for implementation of various CSR activities in upcoming 4 years. Allocated fund for the first year 2021-22 was Rs.24 lakhs and the amount of Rs. 24 lakhs were spent during the year, allocated fund for the second year 2022-23 is Rs.20 lakhs, But Rs. 27 lakhs were spent during the second year (2022-23). Allocated fund for the third year 2023 - 24 is Rs.10 lakhs, But Rs. 21.54 lakhs were spent during April 2023 – September 2023 due to additional requirement. (Ref. Table No 1.1 of Annex XVIII).
(ix)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	IFFCO Kalol unit is contributing towards various social welfare measures in nearby villages and localities under IRDP schemes. Those measures include road construction, sanitation facilities, medical camps, drinking water supply. Details are attached as Annex - XVIII .
(x)	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest 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.	Every year IFFCO Kalol earmark sufficient funds towards capital cost and recurring cost per annum to implement environment management/ operate existing pollution control measures. The funds so earmarked for environment management/ operate existing pollution control measures are not diverted for any other purpose.
(xi)	A copy of the clearance letter shall be sent by the project proponent to concerned 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.	There were no suggestions / representations received from the concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban local Body and the local NGO while processing the proposal. However, one copy each of Environment clearance letter has been given to Sarpanch of nearby villages. Copies of receipt of Acknowledgement are attached as Annexure - XXIV .
(xii)	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	Noted and IFFCO Kalol Unit have started submission of six-monthly compliance report of EC conditions to Regional Office of MOEF & CC, Zonal office of CPCB & GPCB from June 2021 onwards. Copy of Environmental Clearance and six-monthly compliance status report has been posted on the website of IFFCO.

Sr. No.	Conditions	Compliance Status
(xiii)	The environmental statement for each financial year ending 31 st 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 Regional Offices of MoEF&CC by e-mail.	<p>Yes, every year the environmental statement for each financial year ending 31st March in Form-V is submitted to GPCB.</p> <p>Copy of Environmental statement (Form V) for Year 2022 - 23 submitted to GPCB is attached as Annexure - XX.</p> <p>Same will be put on the IFFCO website along with the status of compliance of environmental clearance conditions. Soft copy of same is being sent to Regional Office of MoEF&CC, Gandhinagar by email.</p>
(xiv)	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 https://parivesh.nic.in/ . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	<p>IFFCO had advertised information related to Environment clearance on dtd 7th February 2021, in two local newspapers one in Gujarati and another in English.</p> <p>Copies of advertisement published in Newspapers, such as Divya Bhaskar dtd. 7/2/2021 and Times of India dtd. 7/2/2021 are attached as Annexure – XXV.</p>
(xv)	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.	<p>CTE No. 61798 dtd 13/03/2023 obtained from GPCB for Expansion of Existing Fertilizer Plant for Manufacturing Nano Fertilizer and Nano Micronutrients.</p> <p>CTO / Amendment to CCA No GPCB/CCA-GNR-95(12)/ID-16444/757582 dtd 1.11.2023 with validity upto 10.3.2028, obtained from GPCB</p>
(xvi)	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 this project.	Noted

ANNEXURE IA
LATEST ENVIRONMENTAL CLEARANCE
(DATED 07.03.2023)



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Director

INDIAN FARMERS FERTILIZER COOPERATIVE LIMITED (IFFCO)

IFFCO Kalol Unit, P.O. Kasturi Nagar, District Gandhinagar, North Gujarat
– 382423,,Gandhinagar,Gujarat-382423

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/GJ/IND3/412440/2022 dated 21 Feb 2023. The particulars of the environmental clearance granted to the project are as below.

- | | |
|---|---|
| 1. EC Identification No. | EC23A016GJ154380 |
| 2. File No. | J-11011/60/2009-IA-II(I) |
| 3. Project Type | Expansion |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 5(a) Chemical fertilizers |
| 6. Name of Project | Expansion of Existing Fertilizer Plant for Manufacturing of Nano Fertilizer and Nano Micronutrients at Plot no. 712/846, 855, 856 of Saij, 17-37 of Dhanej, Kasturinagar, Kalol GIDC, District - Gandhinagar, Gujarat- 382423 |
| 7. Name of Company/Organization | INDIAN FARMERS FERTILIZER COOPERATIVE LIMITED (IFFCO) |
| 8. Location of Project | Gujarat |
| 9. TOR Date | N/A |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 07/03/2023

(e-signed)
Mr. Motipalli Ramesh
Scientist E
IA - (Industrial Projects - 3 sector)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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F. No. J-11011/60/2009-IA-II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan,
Jorbagh Road,
New Delhi - 110003

Dated: 7th March, 2023

To

M/s. Indian Farmers Fertilizer Cooperative Limited (IFFCO)

IFFCO Kalol Unit, P.O. Kasturi Nagar,
District Gandhinagar, North Gujarat – 382423
Email: iffcofertilizer2020@gmail.com

Subject: Expansion of Existing Fertilizer Plant for Manufacturing of Nano Fertilizer and Nano Micronutrients of production capacity (Ammonia- 4,01,500 MTPA, Urea (100%)- 6,75,000, Diesel Exhaust Fluid (DEF) (32.5% Urea Solution) upto 4,01,538 (Equivalent to 1,30,500 MTPA Urea), Nano Fertilizers @ Nano Urea/Nano Micronutrients (Nano Zinc/ Nano Copper/ Nano Boron/ Nano Sulphur)/Nano DAP (Nano I + Nano II)- 100375 KLPA) located at Plot no. 712/846, 855, 856 of Saij, 17-37 of Dhanej, Kasturinagar, Kalol GIDC, District Gandhinagar, Gujarat by Indian Farmers Fertilizer Cooperative Limited (IFFCO) - Environmental Clearance

Sir,

This has reference to your proposal No. **IA/GJ/IND3/412440/2022**, on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for Environmental Clearance to the project for Expansion of Existing Fertilizer Plant for Manufacturing of Nano Fertilizer and Nano Micronutrients of production capacity (Ammonia- 4,01,500 MTPA, Urea (100%)- 6,75,000, Diesel Exhaust Fluid (DEF) (32.5% Urea Solution) upto 4,01,538 (Equivalent to 1,30,500 MTPA Urea), Nano Fertilizers @ Nano Urea/Nano Micronutrients (Nano Zinc/ Nano Copper/ Nano Boron/ Nano Sulphur)/Nano DAP (Nano I + Nano II)- 100375 KLPA) located at Plot no. 712/846, 855, 856 of Saij, 17-37 of Dhanej, Kasturinagar, Kalol GIDC, District Gandhinagar, Gujarat by Indian Farmers Fertilizer Cooperative Limited (IFFCO).

3. The project/activity is covered under Category 'A' of item 5 (a) Chemical Fertilizers of Schedule of Environment Impact Assessment (EIA) Notification, 2006 (as amended). Therefore, the project requires appraisal at Central Level.

4. The PP applied for ToR on 07.04.2022 and the Standard ToR was issued on 20.04.2022. The PP applied for Environment Clearance on 11.1.2023 in CAF and submitted EIA/EMP Report and other documents. The PP in the CAF reported that it is an **Expansion EC case**. Due to some shortcomings, the Project was referred back to PP on 19.1.2023 and reply to the same was submitted on 23.1.2023. The proposal was placed in 46th EAC Meeting held on 30th - 31st January & 1st February 2023, wherein the PP and an accredited Consultant, M/s EQMS India Pvt. Ltd [Accreditation number NABET/EIA/1922/RA 0197, valid upto 3.5.2023], made a detailed presentation on the salient features of the project and informed the following:

5. The PP reported that the existing land area is 95.5158 Ha. No additional land will be required for proposed expansion and no R& R is involved in the Project. The details of products are as follows:

Product	Unit	As per Latest EC granted	Additional/ Proposed	After Expansion	Remarks
Ammonia	MTPA	4,01,500	0	4,01,500	No changes
Urea (100%) (Fertiliser Grade/Tech Grade)	MTPA	6,75,000 max or	0	6,75,000 max or	
Urea (100%) or & Diesel Exhaust Fluid (32.5% of Urea Solution)	MTPA	5,44,500 & 4,01,538 i.e., (Equivalent to 1,30,500 of 100% Urea) max or #	0	5,44,500 & 4,01,538 i.e., (Equivalent to 1,30,500 of 100% Urea) max or #	
Urea (100%) or & Diesel Exhaust Fluid (40% of Urea Solution)	MTPA	5,44,500 & 3,26,250 i.e., (Equivalent to 1,30,500 of 100% Urea) max #	0	5,44,500 & 3,26,250 i.e., (Equivalent to 1,30,500 of 100% Urea) max #	
Nano Fertilizers @ Nano Urea/Nano Micronutrients (Nano Zinc/ Nano Copper/ Nano Boron/ Nano Sulphur) /Nano DAP** (Nano I + Nano II)	KLPA	63875	36500	100375**	Addition of Nano DAP and Nano Micronutrients (Nano Boron & Nano Sulphur)

Note - # Depending upon the requirement of urea fertilizer in the market, there shall be variation in quantity of DEF (32.5% and/or 40% urea Solution) production. The total urea production shall, however, be limited to 6,75,000 MTPA (Maximum) under all the above combinations.

** Products shall be manufactured in any combination or single product in both plants i.e., Nano I & Nano II on demand basis. However, total capacity of plant will be limited to 100375 KLPA.

@ Nano Urea contains 40000 ppm (Min) of nitrogen, Nano Zinc contains 10000 ppm (Min) of Zinc and Nano copper contains 8000 ppm (Min) of copper.

@ Nano Boron contains 4500 ppm (Min) of Boron, Nano Sulphur contains 10000 ppm (Min) of Sulphur and Nano DAP contains 8 % of Nitrogen (Min) and 16 % of P₂O₅(Min).

6. The PP reported that there is no violation case as per the Notification No. S.O.804(E) dated 14.03.2017 and no direction is issued under E (P) Act/Air Act/Water Act.

7. The PP reported that Ministry had issued EC earlier vide letter no. **J-11011/60/2009-IA-II(I) dated 24.08.2021** for the existing project, Expansion/Modernization of the Fertilizer Plant. Certified compliance was given by IRO, MoEF&CC Gandhinagar on 18.07.2022. As per the report, out of total

38 conditions, 26 are complied, 4 are partly complied and 6 are agreed to comply by the project proponent, 1 condition is noted by the unit whereas 1 condition is not applicable to the unit. Response of partly complied conditions (*copy of wildlife conservation plan, details of third party carrying out monthly monitoring of AAQ and noise, details of expenditure incurred for environment management/pollution control measures*) was submitted by IFFCO to IRO, MoEF&CC on 01.11.2022.

8. The PP reported that There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. Two river/Canal/water bodies are present in 10 Km radius of project site i.e., Narmada Canal (2.8 Km, S) and Sabarmati River (12.8 Km, ESE). The PP reported that no forest area is involved in the proposed project and two Schedule-I species i.e Pavo cristatus (Indian Peafowl), **Indian Monitor/Lizard** exist within 10 km study area of the project for which conservation plan has been submitted to Chief wildlife warden dated 9.8.2021

9. The PP reported that Ambient air quality monitoring was carried out at 8 locations during 1st October 2021 to 31st December 2021 and the baseline data indicates the range of concentrations as PM₁₀ (43 – 90 µg/m³), PM_{2.5} (19 - 49 µg/m³), SO₂ (5.14 – 16.20 µg/m³) and NO₂ (13.40 – 29.20 µg/m³), NH₃ (18.50 – 48.40 µg/m³) and CO (0.58 – 1.32 mg/m³). All parameters are within the National Ambient Air Quality Standards (NAAQS). Ambient Noise quality monitoring was carried out at 8 locations during the 1st October 2021 to 31st December 2021 and baseline data indicates the range of concentrations as Day Noise (49.9-62.4 dB(A)) and Night Noise (37.1-52.1 dB(A)). The noise level is within the prescribed limit in all the monitoring stations except at N3 (Kalol (Nr. Institute of Pharmacy)) and N8 (Nirma University Tragad). The noise level exceeded at these locations due to nearby residential areas leading to community noise as well vehicular traffic in the area contributes to noise levels in the area.

10. Ground water quality monitoring was carried out at 8 locations during the 1st October 2021 to 31st December 2021 and baseline data indicates pH ranged between to 6.79 to 7.69 which are well within the specified standard of 6.5 to 8.5 limit. Total hardness levels were recorded in the range between 328 to 684 mg/l which is within the permissible limit 600 mg/l at all locations except at GW6 i.e., Ramnagar. The Total Dissolved Solids (TDS) concentration recorded ranged between 765 to 2160 mg/l and was within the permissible limits (2000 mg/l) at all locations except at GW1 (nearby project site). Chlorides at all the locations were within the permissible limits (1000 mg/l) as it ranged between 215 – 716 mg/l. Sulphates at all the locations were within the permissible limits (400 mg/l) as it ranged between 65 – 226 mg/l. Bacteriological studies reveal that no coliform bacterial are present in the samples. The heavy metal contents were observed to be in below detectable limits. All physical and general parameters were observed within the permissible limit as per IS10500:2012 (Second Revision). Thus, it is recommended that water be filtered and disinfected prior to be given for drinking water requirements.

11. Surface water quality monitoring was carried out at 3 locations during the 1st October 2021 to 31st December 2021 and baseline data indicates pH values of all analysed samples ranged between 7.52 to 7.63. TDS levels were observed to be in range from 204 to 1220 mg/l. Total hardness levels were observed to be in the range of 142 to 286 mg/l. Dissolved Oxygen values ranged between 6.6 to 7.3 mg/l. The chlorides level was observed to be in range of 36 to 369 mg/l. Sulphate level were found to be ranging from 10 to 118 mg/l. Nitrate levels were found to be observed within the range of 9.4 to 26.5 mg/l. Total Coliform levels were found to be in the range of 120 to 4600 MPN/100 ml. Biochemical Oxygen Demand (BOD) was observed to be in range of 2.1 to 4.3 mg/l. Comparing the values of pH, DO, BOD and Total Coliforms with 'Use based classification of surface waters' published by Central Pollution Control Board; it can be seen that the analysed surface waters is

moderately polluted and classified as “**Class ‘C’**” and can be used for as Drinking water source after conventional treatment and disinfection.

12. The PP reported that total freshwater requirement after expansion will be 10190 KLD (in Phase-I) and 10614 KLD (in Phase-II). Fresh water will be met by Sardar Sarovar Narmada Nigam Ltd. (SSNNL). The total wastewater generation after expansion in Phase I and Phase II will increase from 1449.5 KLD (Phase I) to 1459 KLD (Phase I) and 1509.5 KLD (Phase II) to 1519 KLD (Phase II) respectively. Wastewater streams are segregated into two categories i.e., Weak effluent containing – Low TDS and Strong effluent containing - High TDS. Normally weak effluent (Containing less TDS) from water treatment plant, HCl storage tanks fumes scrubber is collected in Neutralization tank. The effluents collected from domestic open channel network including cooling water blow down, sand filters back wash, effluents from knockout drums & surface drain are collected in bulk effluent tank by an underground line of 350 mm dia. The strong / off-spec. effluent especially from urea plant (in case of upset condition) and partly from DM plant during regeneration of ion exchange units (after segregation) is collected in strong effluent storage tanks in ETP. Same is pumped to Off-Spec effluent pond having capacity of 40,000 m³ and is allowed for natural evaporation. Treated water from Bulk Effluent tank is being used for horticulture/ gardening/ green belt development purpose within the plant area. In existing plant, the domestic wastewater is partially treated in the existing ETP and flushing wastewater is discharged to soak pits. For nano fertilizer plant, ETP plant will be set up which will have total capacity of 35 KLD. Out of 35 KLD, MEE, Stripper and AFFD will have capacity of 25 KLD. Treated water will be reused for horticulture/ gardening/ green belt development purposes.

13. The PP reported that the power requirement after expansion will be 282 MWH in Phase-I and 305 MWH in Phase-II which will be sourced from Uttar Gujarat Vij Company Ltd. (UGVCL). Existing unit has DG set of capacity 2200 KVA & 860 KVA as power backup. No additional DG set is proposed. Stack (24 m for 2200 KVA & 22 m for 860 KVA) is provided as per CPCB norms to the existing DG sets.

14. Existing unit has 1 nos. of Natural gas-based boilers (80,000 Kg/hr). During normal course of operation of Nano Fertiliser Plant, surplus LP Steam available from Urea-Ammonia Plant will be used. However, during shutdown of Ammonia-Urea plant, there shall be requirement of LP steam for normal operation of Nano Fertilizer Plant. Therefore, a standby boiler of 6TPH natural gas based will be installed to meet steam requirement of Nano-Fertilizer plant. Stack of 35 m has been provided for existing Boilers and 30 m stack is proposed for new 6 TPH Boiler.

15. **Details of Process Emissions Generation and its Management:**

S. No.	Stack Attached	Fuel Used	APCM	Expected Pollutants
Existing Stacks				
1	Steam Boiler – 80000 kg/hr	Natural gas	35 m Stack height	PM, SO ₂ & NO _x
2	DG Set –2200 KW & 860 KW	HSD	24 m for 2200 KW & 22 m for 860 KW	PM, SO ₂ & NO _x
Proposed Stacks				
3	Steam Boiler (6 TPH)	Natural Gas	30 m stack Height	PM, SO ₂ & NO _x
Process Stacks / Vents				
Existing Stacks				
1	Prilling Tower – 4 Nos	-	Stack Height 68.5 m with Induced Draft, Vibropriller.	PM

2	Ammonia Scrubber	-	Venturi Water scrubber & 71 m stack Height	NH ₃
3	Ammonia Plant Primary Reformer	-	Stack Height of 40 m	PM, SO ₂ & NO _x

16. Details of Solid Waste/ Hazardous Waste Generation and its Management:

S. No.	Name of Waste	Source of Generation	Category No. (As per Sch-I&II 2016)	Quantity			Mode of Treatment & Disposal Method
				As per granted EC	Additional	Total after Expansion	
1	Discarded Barrels/ Containers / Liners contaminated with hazardous chemicals / wastes	Storage & Handling of Raw Materials	Sch-I/33.1	1500 Nos./year	15000 Nos. HDPE Drums	1500 Nos. Containers/Barrels /Year, & 15000 Nos. HDPE Drums	Collection, Storage, Decontamination and sale to authorized decontamination facility/ authorized recycler.
2	Bags contaminated with hazardous chemicals / wastes	Storage & Handling of Raw Materials	Sch-I/33.1	-	150 MT/Year HDPE Bags	150 MT/Year HDPE Bags	Collection, Storage, and sale to authorized recycler.
3	Used oil/ Spent Oil	Process	Sch-I/5.1	88.8 MTPA	0	88.8 MTPA	Collection, storage in MS drum, transportation and disposal by selling to registered Re-refiners.
4	ETP Sludge	In-house ETP	Sch-I/35.3	180 MTPA	0	180 MTPA	Collected in Drying Pits, stored in HDPE bags, Transported and disposed off to GPCB approved TSDF site.
5	Phosphoric acid Sludge	From solids settling in Phosphoric acid storage tank	-	-	150 MTPA	150 MTPA	This will be collected, dried, stored in HDPE bags and

							transported to IFFCO Kandla by road for use in DAP Manufacture.
6	Spent Catalyst	Ammonia/Urea Process	Sch-I/18.1	100 MTPA	0	100 MTPA	Collection, storage, transportation and disposal by selling to registered and authorized recyclers.
7	Spent Carbon	Ammonia/DM Plant Process	Sch-I/18.2	228 MTPA	0	228 MTPA	Collection, storage in HDPE bags, Transportation and disposal to authorized TSDF site / Co-processing at authorized cement industries.
8	Spent Resin	DM Plant Process	Sch-I/35.2	228 M ³ /Year	0	228 M ³ /Year	Collected and stored in HDPE bags, Transported and disposed off to authorized TSDF site / Co-processing at authorized cement industries.
9	MEE Sludge	In-house MEE & ETP (Proposed Nano Fertiliser plant)	Sch-I/35.3	0	91.25 MTPA	91.25 MTPA	Shall be Collected in Drying Pits, stored in HDPE bags, Transported and disposed off to GPCB approved TSDF site.

17. The budget earmarked towards Environmental Management Plan (EMP) is ₹ 932.9 crores (capital) and the Recurring cost (operation and maintenance) will be about ₹116 Crores per annum. Industry proposed to allocate Rs. 0.62 Crores @ 0.1% of total expansion cost towards CER.

18. The PP reported that Industry will maintain green area of 47.4266 Ha which is 49.65% of total plot area. As per MoEF&CC requirement, it is mandated to have 33% of green area exclusively for green belt thus, 33.43 Ha of area which is 35% of plot area is provided with green belt area having dense trees and rest area within green area is provided with shrubs, herbs and lawn.

19. The PP proposed to set up an Environment Management Cell (EMC) by engaging Director, Environment Health and safety officials - for the functioning of EMC.

20. The PP reported the following w.r.t carbon sequestration:

S. No.	Species	Green Weight of Tree above ground level	Green weight (including root) (Kg)	Dry Weight of tree (Kg)	Weight of carbon in the tree (Kg)	Weight of CO ₂ (Kg)	Weight of CO ₂ Sequestered in tree per year (Kg)	No of tree proposed	Weight of CO ₂ Sequestered in tree per year (Tonnes)
1	<i>Acacia senegal</i>	676	811.2	588.12	294.06	1078.11	107.81	1650	79.41
2	<i>Aegle marmelos</i>	784	940.8	682.08	341.04	1250.35	125.04	1840	102.71
3	<i>Albizia lebbek</i>	956.25	1147.5	831.94	415.97	1525.07	152.51	2430	165.44
4	<i>Azadirachta indica</i>	784	940.8	682.08	341.04	1250.35	125.04	2200	122.80
5	<i>Bauhinia racemosa</i>	676	811.2	588.12	294.06	1078.11	107.81	3600	173.27
6	<i>Bauhinia variegata</i>	676	811.2	588.12	294.06	1078.11	107.81	2760	132.84
7	<i>Bauhinia purpurea</i>	676	811.2	588.12	294.06	1078.11	107.81	1200	57.76
8	<i>Bougainvillea spectabilis</i>	345.6	414.72	300.67	150.34	551.18	55.12	890	21.90
9	<i>Cassia fistula</i>	843.75	1012.5	734.06	367.03	1345.65	134.56	1650	99.12
10	<i>Dalbergia sissoo</i>	1152	1382.4	1002.24	501.12	1837.26	183.73	1850	151.74
11	<i>Delonix regia</i>	1152	1382.4	1002.24	501.12	1837.26	183.73	2800	229.66
12	<i>Ficus benghalensis</i>	1152	1382.4	1002.24	501.12	1837.26	183.73	3950	323.98
13	<i>Ficus racemosa</i>	1216	1459.2	1057.92	528.96	1939.33	193.93	3200	277.05

14	<i>Ficus religiosa</i>	1088	1305.6	946.5 6	473.2 8	1735.1 9	173.52	3000	232.39
15	<i>Madhuca indica</i>	735	882	639.4 5	319.7 3	1172.2 1	117.22	3000	156.99
16	<i>Mangifera indica</i>	784	940.8	682.0 8	341.0 4	1250.3 5	125.04	1880	104.94
17	<i>Melia azedarach</i>	633.7 5	760.5	551.3 6	275.6 8	1010.7 3	101.07	1650	74.45
18	<i>Pongamia pinnata</i>	735	882	639.4 5	319.7 3	1172.2 1	117.22	1800	94.20
19	<i>Syzygium cumini</i>	1012. 5	1215	880.8 8	440.4 4	1614.7 8	161.48	1890	136.25
20	<i>Tamarindus indica</i>	980	1176	852.6 0	426.3 0	1562.9 4	156.29	2920	203.74
21	<i>Tectona grandis</i>	833	999.6	724.7 1	362.3 6	1328.5 0	132.85	3210	190.38
22	<i>Terminalia arjuna</i>	784	940.8	682.0 8	341.0 4	1250.3 5	125.04	1740	97.13
23	<i>Terminalia bellirica</i>	784	940.8	682.0 8	341.0 4	1250.3 5	125.04	1640	91.54
24	<i>Terminalia catappa</i>	14.4	17.28	12.53	6.26	22.97	2.30	1490	1.53
25	<i>Thevetia peruviana</i>	6.75	8.1	5.87	2.94	10.77	1.08	760	0.37
							Total	55000	3321.22 100

21. The PP submitted the disaster and Onsite and Offsite Emergency Plans in the EIA report.

22. The estimated project cost of new Nano Plant is Rs. 490 crores and additional Rs. 50 Crore for CDR in case of lean gas supply in ammonia plant. Total Employment will be 2000 persons during operation phase after expansion.

23. The PP reported that Public Hearing is exempted as the project is located in the industrial area i.e GIDC Kalol notified on 07.09.1993.

24. The EAC constituted under the provisions of the EIA Notification, 2006 comprising Expert Members/domain experts in various fields, examined the proposal submitted by the PP in desired format along with the EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the PP.

The EAC noted that the PP has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the PP.

The EAC noted that the EIA reports are in compliance of the ToR issued for the project, reflecting the present environmental status and the projected scenario for all the environmental components. The Committee deliberated on the proposed mitigation measure towards Air, Water, Noise and Soil pollutions. The Committee suggested that the storage of toxic/explosive raw materials/products shall be undertaken with utmost precautions and following the safety norms and

best practices.

The EAC inter-alia, deliberated on the Greenbelt development plan, Effluent treatment plant, DAP product and advised the PP to submit the following:

- Undertaking for planting during 1st year and 2nd Year
- Revised ETP flow diagram
- Revised block diagram of Nano DAP.

The PP submitted the above information/documents and the EAC found it to be satisfactory.

The EAC deliberated the Onsite and Offsite Emergency plans and also the various mitigation measures proposed during implementation of the project and advised the PP to implement the provisions of the Rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, as amended from time to time.

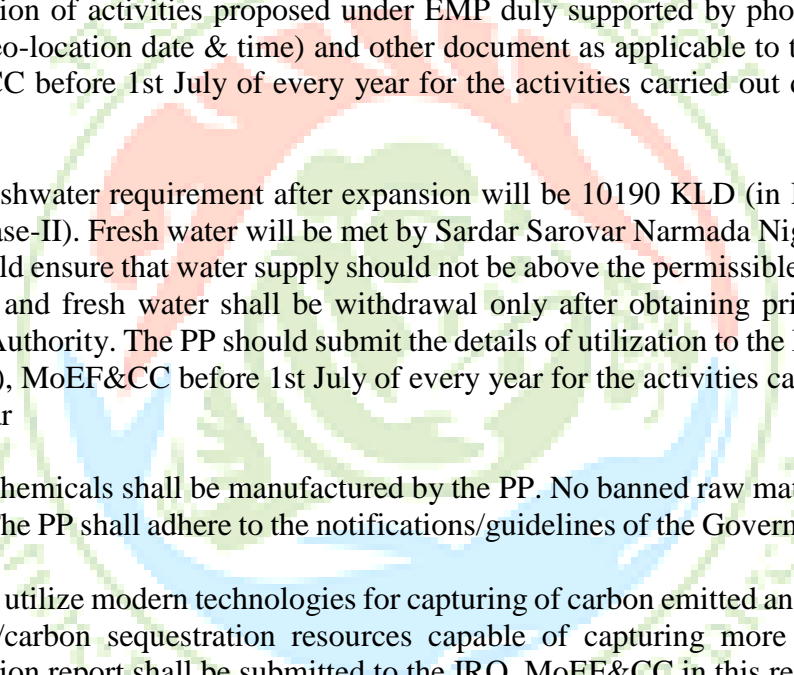
The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance. The minutes of the meeting are available on PARIVESH.

The EAC is of the view that its recommendation and grant of environmental clearance by the regulatory authority to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The PP shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

25. Based on the proposal submitted by the PP and recommendations of the EAC (Industry-3 Sector), the Ministry of Environment, Forest and Climate Change hereby accords **Environmental Clearance for “Expansion of Existing Fertilizer Plant for Manufacturing of Nano Fertilizer and Nano Micronutrients of production capacity (Ammonia- 4,01,500 MTPA, Urea (100%)- 6,75,000, Diesel Exhaust Fluid (DEF) (32.5% Urea Solution) upto 4,01,538 (Equivalent to 1,30,500 MTPA Urea), Nano Fertilizers @ Nano Urea/Nano Micronutrients (Nano Zinc/ Nano Copper/ Nano Boron/ Nano Sulphur)/Nano DAP (Nano I + Nano II)- 100375 KLPA) located at Plot no. 712/846, 855, 856 of Saij, 17-37 of Dhanej, Kasturinagar, Kalol GIDC, District Gandhinagar, Gujarat by Indian Farmers Fertilizer Cooperative Limited (IFFCO)”** under the provisions of the EIA Notification 2006 and its subsequent amendments subject to the compliance of terms and conditions as under:-

A. Specific Conditions:

- (i) The PP shall develop Greenbelt over an area of at least, 16165.45 m² by planting 40,000(1st year) number of trees within a period of one year of grant of EC and 15,000 (2nd year) (2024). The saplings selected for the plantation should be of sufficient height, preferably 6-ft (about 2m). The budget earmarked for the plantation shall be kept in separate account and should be audited annually. PP should annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of the expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.

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- (ii) A separate Environmental Management Cell (having qualified persons 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 by engaging Director- environment officials, in addition to this, one safety & health officer as per the qualification given in Factories Act, 1948 shall be engaged within a month of grant of EC. The PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.
- (iii) The company 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. The budget proposed under EMP [₹932.9 crores (Capital cost) and ₹ 116 crores (Recurring cost)] shall be kept in a separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.
- (iv) The total freshwater requirement after expansion will be 10190 KLD (in Phase-I) and 10614 KLD (in Phase-II). Fresh water will be met by Sardar Sarovar Narmada Nigam Ltd. (SSNNL). The PP should ensure that water supply should not be above the permissible limit as mentioned in the letter and fresh water shall be withdrawal only after obtaining prior agreement from Concerned Authority. The PP should submit the details of utilization to the Integrated Regional Office (IRO), MoEF&CC before 1st July of every year for the activities carried out during the previous year
- (v) No banned chemicals shall be manufactured by the PP. No banned raw materials shall be used in the unit. The PP shall adhere to the notifications/guidelines of the Government in this regard.
- (vi) The PP 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.
- (vii) The project proponent shall comply with the environment norms for Fertilizer as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 1607(E), dated 29.12.2017 under the provisions of the Environment (Protection) Rules, 1986.
- (viii) All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The PP shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation 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 Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996.
- (ix) The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.

- (x) The PP shall explore possibilities for recycling and reusing of treated water in the unit to reduce the fresh water demand and waste disposal.
- (xi) As committed by the PP, Zero Liquid Discharge shall be ensured. the domestic wastewater shall be partially treated in the existing ETP and flushing wastewater shall be discharged to soak pits. ETP plant shall be installed total capacity of 35 KLD. Out of 35 KLD, MEE, Stripper and AFFD will have capacity of 25 KLD. Treated water shall be reused for horticulture/ gardening/ green belt development purposes.
- (xii) 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 servers. 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.
- (xiii) The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.
- (xiv) The occupational health centre 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 required safety kits/mask for personal protection.
- (xv) Proper Ventilation with adequate air change cycle shall be made for healthy working environment for the workers. Work Zone monitoring should be done for VOC.
- (xvi) Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.
- (xvii) The unit shall make the arrangement for the protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
- (xviii) 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. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (xix) The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water 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.
- (xx) The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapor recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.

- (xxi) The Plastic Waste Management (Amendment) Rules, 2022 shall be duly complied w.r.t Extended Producer Responsibility (EPR) target as a brand owner.
- (xxii) The activities and the action plan proposed by the project proponent to address the issues raised during the public hearing as well as the related socio-economic issues in the study area shall be completed as per the schedule presented before the Committee and as described in the EIA report in letter and spirit.

B. General Conditions:

- (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 alterations 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.
- (ii) The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import 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) Rules, 2016 and other rules notified under various Acts.
- (iii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iv) 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 (day time) and 70 dBA (night time).
- (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.
- (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, Forest 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.
- (vii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZillaParishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (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 copy of 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.
 - (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 <https://parivesh.nic.in/>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
 - (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.
 - (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 this project.
26. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.
27. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
28. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
29. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

This issues with approval of the competent authority.

(Dr. M. Ramesh)
Scientist 'E'

Copy to:

1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar - 382 010 (Gujarat).
2. The Deputy Director General of Forests (C) Ministry of Env., Forest and Climate Change, Integrated Regional Office, Gandhi Nagar, A-Wing – 407 & 409, Aranya Bhawan, Near CH-3 Circle, Sector-10A, Gandhi Nagar - 382010
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhawan, Sector 10 A, Gandhi Nagar-382 043 (Gujarat)
5. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001
6. The District Collector, District Gandhinagar, Gujarat.
7. Guard File/Monitoring File/PARIVESH.

(Dr. M. Ramesh)

Scientist 'E'

Tel.: 011-20819338

Email: ramesh.motipalli@nic.in



ANNEXURE IB
EARLIER ENVIRONMENTAL CLEARANCE
(DATED 24.08.2021)

F.No. J-11011/60/2009-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 110003

Dated: 24th August, 2021

To,

M/s Indian Farmers Fertiliser Cooperative Limited (IFFCO)
Kasturinagar (PO), Kalol
District Gandhinagar, Gujarat – 382 423

Email: iffcofertilizer2020@gmail.com

Sub: Expansion of Fertilizer Plant by Installation of new Nano Urea Plant at Plot No. 712/846, 855, 856 of Saij, 17-37 of Dhanaj, Kasturinagar, Kalol, District Gandhinagar, Gujarat by M/s Indian Farmers Fertiliser Cooperative Limited- Environmental Clearance – regarding.

Sir,

This has reference to your proposal No. IA/GJ/IND3/217176/2021 dated 30th July 2021, submitting addendum to the EIA/EMP report on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for Expansion of Fertilizer Plant by Installation of new Nano Urea Plant by M/s Indian Farmers Fertiliser Cooperative Limited (IFFCO) at Plot No. 712/846, 855, 856 of Saij, 17-37 of Dhanaj, Kasturinagar, Kalol, District Gandhinagar, Gujarat.

3. The details of products and capacity are as under:

S. No	Product	Unit	As per EC granted on 01/02/2021	Additional / Proposed	Total after Expansion
1.	Ammonia	MTPA	4,01,500	0	4,01,500
2.	Urea (100%) (Fertilizer Grade/Technical Grade)	MTPA	6,75,000 max or	0	6,75,000 max or
3.	Urea (100%) or & Diesel Exhaust Fluid (32.5% of Urea Solution)	MTPA	5,44,500 & 4,01,538 i.e., (Equivalent to 1,30,500 of 100% Urea) max or #	0	5,44,500 & 4,01,538 i.e., (Equivalent to 1,30,500 of 100% Urea) max or #

4.	Urea (100%) or & Diesel Exhaust Fluid (40% of Urea Solution)	MTPA	5,44,500 & 3,26,250 i.e., (Equivalent to 1,30,500 of 100% Urea) max #	0	5,44,500 & 3,26,250 i.e., (Equivalent to 1,30,500 of 100% Urea) max #
5.	Nano Fertilisers (Nano-Nitrogen (Urea) / Nano Zinc/Nano Copper*) (Nano-I + Nano-II)	KL / year	27375	36500	63875

Note: # Depending upon the requirement of urea fertilizer in the market, there shall be variation in quantity of DEF (32.5% and/or 40% urea Solution) production. The total urea production shall, however, be limited to 6,75,000 MTPA (Maximum) under all the above combinations.

*** Phase I include supply of Rich gas and manufacturing unit of Nano Fertiliser products & Phase II include installation of CDR during supply of lean gas.*

** Nano Nitrogen contains 40000 ppm (Min) of nitrogen, Nano Zinc contains 10000 ppm (Min) of Zinc and Nano copper contains 8000 ppm (Min) of copper.*

4. It is noted that the project proponent has proposed for enhancement of Nano Fertilizer production by installation of new Nano-Nitrogen (Nano Urea) Plant (Nano-II) of capacity 36500 KL per annum along with Bottle manufacturing and bottling unit besides auxiliary facilities. The plant will be established over area of 2.3491 Hectares in existing premises.

It is also noted that the manufacturing process of Nano Urea comprises of polymerization reaction of carbohydrate polymer with nucleation and attachment of nanocluster with amide/nitrate particles. No source of air emission/effluent generation/hazardous waste generation is involved in the production process. It is noted that the nano-fertilizer plant will pose an example of environmental sustainability and profitability for both farmers and government.

5. It is reported that the existing land area is 95.5158 ha and expansion is proposed within the existing land area. Industry has developed greenbelt in an area of 46.18 ha which will be increased to 46.6257 ha, covering 48.8% of the project area. The estimated project cost for expansion is Rs. 225 crores. Industry has spent Rs. 4811.8 lakhs towards environmental pollution control measures. The capital cost earmarked towards environmental pollution control measures in expansion is Rs. 115 lakhs and recurring cost (operation and maintenance) for proposed project will be about Rs. 10 lakhs per annum. The project will lead to employment for 1668 persons directly & indirectly after expansion. Industry proposed to allocate Rs. 62 lakhs towards Corporate Environment Responsibility.

6. It is reported that there are no National parks, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife sanctuary, Reserve forests within 10 km from the project site. Sabarmati river is flowing at 12.8 km (ESE) from the project site, and Narmada Canal is flowing at 2.8 km (S) from the project site.

7. It is noted that the freshwater requirement after expansion in Phase I including proposed nano fertilizer plant will be 10069 KLD and in Phase II with CDR and nano

fertilizer plant will be 10493 KLD. Water will be made available from existing infrastructure of Narmada Canal water supply system to IFFCO Kalol Unit.

Total effluent generation after expansion including domestic will be 1449.5 KLD in Phase I and 1509.5 KLD in Phase II. The wastewater from Ammonia and Urea plant is being treated in Hydrolyser, process condensate stripper, ETP, etc., Treated water from treatment schemes are being reused for Horticulture/gardening/green belt development. For Nano-I plant, separate Effluent Treatment System (ETS) of capacity 1 KLD cum neutralization tank for treatment of Reactor Wash / Floor wash and STP (Capacity- 10 KLD) for domestic wastewater has been installed in the plant. Treated water from both the schemes will be reused for horticulture/gardening/ green belt development. Likewise, Effluent Treatment System (ETS) of capacity 1.5 KLD with neutralization tank for reactor wash/floor wash and STP (Capacity- 15 KLD) for domestic wastewater treatment will be installed in Nano-II unit. Treated water will be reused for horticulture/gardening/greenbelt development purposes within the plant premises. The plant will be based on Zero Liquid discharge system.

Total power requirement after expansion in Phase I and Phase II will be 224 MW/day and 247 MW/day respectively and same will be met from UGVCL power supply. Existing unit has two DG Sets of Capacity 2200 kW & 860 kW as standby during power failure. Stack Height of 24 m for 2200 KW & 22 m for 860 KW is provided as per CPCB norms.

Existing unit has Natural gas based 80 TPH steam boiler. No additional Boiler is proposed. 35 m stack height has been provided and particulate emission is within the statutory limit of 150 mg/Nm³. It is noted that the proposed Nano Urea Plant does not emit air pollutants from production process. Details of flue gas stacks, process gas stacks, solid waste/hazardous waste disposal of the entire complex are as per the plan provided in the EIA/EMP report and as deliberated in the EAC.

8. The project/activities are covered under Category 'A' of item 5(a) 'Chemical fertilizers' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at Central Level by the Expert Appraisal Committee (EAC) in the Ministry.

9. The proposal has been submitted as per para 7(ii) of the EIA Notification, 2006 & its subsequent amendments requesting exemption from ToR and EIA report. Public hearing is exempted as the project site is located within the notified Industrial area. The project proponent has reported that there are no litigation pending against the proposal.

10. The Ministry had issued EC earlier vide letter no. J-11011/60/2009-IA-II(I) dated 1st February, 2021 in favour of M/s Indian Farmers Fertiliser Cooperative Limited (IFFCO) for Expansion/Modernization of the Fertilizer Plant located at Kalol, Gujarat. It has been informed that construction and modification work as per EC is completed at the site after obtaining CTE from the GPCB. The certified compliance report has been forwarded by the Ministry's Regional Office at Bhopal vide letter dated 10th August, 2021.

11. The proposal was considered by the **Expert Appraisal Committee (Industry-3 Sector) in its meeting held on 10-11 August, 2021** in the Ministry through video conferencing, wherein the project proponent and the accredited consultant M/s

EQMS India Pvt Ltd presented the proposal and addendum to the EIA/EMP report.

The EAC, constituted under the provision of the EIA Notification, 2006 comprising Experts Members/domain experts in various fields, examined the proposal submitted by the Project Proponent in desired format along with Addendum to EIA/EMP reports prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

The EAC noted that the Project Proponent has given an undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the Addendum to EIA/EMP reports. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the proposal has been submitted by the project proponent as per the provisions contained in para 7 (ii) (a) of the EIA Notification seeking exemption from ToR and EIA report. Public hearing is exempted as the project is located in the notified Industrial area/Estate. The Committee noted that the addendum to the EIA/EMP report are in compliance of the activities proposed for the project, considering the present environmental concerns and the projected scenario for all the environmental components. The Committee noted that there is no anticipated air emission from Nano Urea Plant production process. The Committee noted that the project proponent allocated Rs. 36.5 lakhs towards Wild Life Conservation and submitted action plan in this regard.

The Committee noted that the Ministry had issued EC earlier vide letter dated 1st February, 2021 in favour of M/s Indian Farmers Fertiliser Cooperative Limited (IFFCO) for Expansion/Modernization of the Fertilizer Plant located at Kalol, Gujarat. It is also noted that the construction and codification work as per EC granted has been completed at the site. The certified compliance report forwarded by the Ministry's Regional Office at Bhopal vide letter dated 10th August, 2021 after conducting site visit on 27.07.2021 found to be satisfactory. The Committee also noted that there is no additional land required and the proposed unit shall be established in the existing premises.

The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for grant of environmental clearance as per para 7 (ii)(a) of the EIA Notification, 2006 exempting ToR and EIA report.

12. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

13. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-3), Ministry of Environment, Forest and Climate change hereby accords **Environmental clearance to the project for Expansion of Fertilizer Plant by Installation of New Nano Urea Plant by M/s Indian Farmers Fertiliser Cooperative Limited at Plot no. 712/846, 855, 856 of Saij, 17-37 of Dhanaj, Kasturinagar, Kalol, District Gandhinagar, Gujarat**, under the provisions of the EIA Notification, 2006 subject to the compliance of terms and conditions as under:-

- (i) All the specific and general conditions stipulated in the environmental clearance dated 1st February, 2021 shall be complied in letter and spirit.
- (ii) 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, MoEFCC in this regard.
- (iii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the addendum to the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
- (iv) Total fresh water requirement shall not exceed 10069 KLD (in Phase I) and 10493 KLD (in Phase II). Prior permission in this regard shall be obtained from the concerned regulatory authority.
- (v) No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.
- (vi) As proposed, at least Rs. 36.5 lakhs shall be earmarked for conservation plan and shall be implemented in coordination with State Forest & Wildlife Department/Local Village Administration.

14. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

15. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

16. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

17. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other

Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

18. This issues with approval of the competent authority.

24/08/2021

(Dr. R. B. Lal)
Scientist 'E'/Additional Director
Tele-fax: 011-24695362
Email-rb.lal@nic.in

(डा. आर. बी. लाल)
(Dr. R. B. LAL)
वैज्ञानिक 'ई'/Scientist 'E'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

Copy to: -

1. The Deputy DGF (C), MoEF&CC Integrated Regional Office (Gujarat), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal -16
2. The Secretary, Forests and Environment Department, Government of Gujarat, Block 14, 8th Floor, Sachivalaya, Gandhinagar (Gujarat) -10
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar (Gujarat) - 10
5. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi -110001
6. The District Collector, District Gandhinagar (Gujarat)
7. Guard File/Monitoring File/Website/Record File/Parivesh Portal

(Dr. R. B. Lal)
Scientist 'E'/Additional Director

ANNEXURE IC
EARLIER ENVIRONMENTAL CLEARANCE
(DATED 01.02.2021)



F.No. J-11011/60/2009-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

By Speed Post/Online

Indira Paryavaran Bhawan
 Jorbagh Road, New Delhi - 110003

Dated: 1st February, 2021

To

M/s Indian Farmers Fertiliser Cooperative Limited

Kalol Unit, P.O. Kasturinagar
 District Gandhinagar, Gujarat – 382 423

Email: iffcofertilizer2020@gmail.com

Sub: Expansion/Modernization of the Fertilizer Plant at Plot no. 712/846, 855, 856 of Saij, 17-37 of Dhanaj, Kasturinagar, Kalol, District Gandhinagar, Gujarat by M/s Indian Farmers Fertiliser Cooperative Limited (IFFCO) - Environmental Clearance - regarding

Sir,

This has reference to your proposal No. IA/GJ/IND2/185904/2009 dated 14th December 2020 and further letter dated 12.01.2021 & E-Office Computer number 149352, submitting the EIA/EMP report on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for Expansion/Modernization of the Fertilizer Plant by M/s Indian Farmers Fertiliser Cooperative Limited at Plot no. 712/846, 855, 856 of Saij, 17-37 of Dhanaj, Kasturinagar, Kalol, District Gandhinagar, Gujarat. Industry proposes to enhance the production of Urea from 6,02,250 MTPA to 6,75,000 MTPA, while the production of Ammonia plant will remain the same i.e., 4,01,500 MTPA. The unit also proposes to install Commercial-scale Nano Fertiliser Project having capacity of Nano-Nitrogen/Nano-Zinc/Nano-Copper of 27375 kL/year along with bottle manufacturing and bottling unit besides auxiliary facilities. The proposal has been bifurcated in two stages. Phase I - Enhance Urea production with Supply of Rich gas and installation of Commercial-scale Nano Fertiliser Project and Phase II - Enhance Urea production with Supply of lean gas with installation of Carbon dioxide Recovery Unit (CDR). The phase II will be implemented only when there will be supply of lean gas. In phase II, 200 MTPD of CO₂ shall be recovered from the flue gas through CDR for production of Urea.

3. The details of products and capacity are as under:

S. No.	Product	Unit	Quantity		
			Existing	Additional/ Proposed	After Modernization/ Expansion
1.	Ammonia	MTPA	4,01,500	0	4,01,500
2.	Urea (100%) (Fertilizer)	MTPA	6,02,250 max or	72,750	6,75,000 max or

 EC for M/s Indian Farmers Fertiliser Cooperative Limited

	Grade/Technical Grade)				
3.	Urea (100%) or & Diesel Exhaust Fluid (32% of Urea Solution)	MTPA	5,44,500 & 1,77,690 i.e., (Equivalent to 57,750 of 100% Urea) max or	- & 2,23,848 (32.5% Urea solution) i.e., (72,750 of 100% Urea) or	5,44,500 & 4,01,538 i.e., (Equivalent to 1,30,500 of 100% Urea) max or #
4.	Urea (100%) or & Diesel Exhaust Fluid (40% of Urea Solution)	MTPA	5,44,500 & 1,44,375 i.e., (Equivalent to 57,750 of 100% Urea) max	- & 1,81,875 (40% Urea solution) i.e., (72,750 of 100% Urea)	5,44,500 & 3,26,250 i.e., (Equivalent to 1,30,500 of 100% Urea) max #
5.	Nano Fertilisers (Nano-Nitrogen/ Nano Zinc/Nano Copper*)	kL/year	0	27375	27375
<p>Note:</p> <p># Depending upon the requirement of urea fertilizer in the market, there shall be variation in quantity of DEF (32.5% and/or 40% urea Solution) production. The total urea production shall, however, be limited to 6,75,000 MTPA (Maximum) under all the above combinations.</p> <p>** Phase I include supply of Rich gas and new manufacturing unit of Nano Fertilizer products & Phase II include installation of CDR during supply of lean gas.</p> <p>Nano Nitrogen contains 40000 ppm (Min) of nitrogen, Nano Zinc contains 10000 ppm (Min) of Zinc and Nano copper contains 8000 ppm (Min) of copper.</p>					

4. The existing land area is 95.5158 ha and expansion is proposed within the existing land area. Industry has already developed greenbelt in an area of 45.71 ha which will be increased to 46.1756 ha i.e., 48.34% after expansion. The estimated project cost for expansion is Rs. 166.8 crores. Industry has already spent Rs. 4341.8 lakhs towards environmental pollution control measures. The capital cost earmarked towards environmental pollution control measures in expansion is Rs. 100 lakhs and recurring cost (operation and maintenance) will be about Rs. 1500 lakhs per annum. The project will provide employment for 1393 persons after expansion. Industry proposed to allocate Rs. 52 lakhs towards Corporate Environmental Responsibility.

5. There are no National Parks, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife sanctuary within 10 km distance from the project site. Sabarmati river is flowing at 12.8 km (ESE) from the project site, and Narmada canal is flowing at 2.8 km (S) from the project site.

6. The water requirement after expansion in Phase I including nano fertilizer plant will be 9947 KLD and in Phase II with CDR and nano fertilizer plant will be 10371 KLD. Water will be available from existing infrastructure of Narmada Canal water supply system to IFFCO Kalol Unit.

Effluent of 1423 KLD in Phase I and 1483 KLD in Phase II from Ammonia and Urea plant will be treated in the ETP and 1 KLD of Industrial effluent and 9 KLD of Domestic effluent from proposed Nano plant will be treated in Effluent Treatment

System (ETS) cum neutralization tank and STP respectively. The treated water will be reused in Horticulture and plant will be based on Zero Liquid discharge system.

Power requirement after expansion in Phase I and Phase II will be 186 MW/day and 211 MW/day respectively and same will be met from UGVCL power supply. Existing unit has two no. of DG Sets of Capacity 2200 kW & 860 kW as standby during power failure. Stack Height of 24 m for 2200 KW & 22 m for 860 KW is provided as per CPCB norms. Existing unit has Natural gas based 80 TPH steam boiler. No additional Boiler is proposed. 35 m stack height has been provided for controlling the particulate emission within the statutory limit of 150 mg/Nm³.

No additional Stack is proposed in expansion and there shall be no gaseous emission from Nano Fertiliser Unit. There is generation of different kind of Industrial hazardous wastes from production process and other activities. Industrial hazardous wastes such as spent lube oil, spent catalyst are sold to recyclers. ETP sludge generated is disposed off at TSDF site, while other solid wastes are segregated in salable and non-salable waste. All waste is disposed as per The Hazardous & Other Waste (Management and Transboundary Movement) Amendment Rules, 2020.

7. The project/activities are covered under category A of item 5(a) 'Chemical fertilizers' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC) in the Ministry.

8. The Standard Terms of Reference (ToR) was issued by the Ministry vide letter dated 6th November, 2020. Public hearing is exempted as the project site is located within the notified Industrial area. The project proponent has informed that there is no litigation pending against the proposal.

9. It was informed that the plant was established in the year 1975 to produce Ammonia and Urea. The Ministry had earlier granted environmental clearance vide letter dated 24th December, 2009 to the project for Expansion of Kalol Fertilizer unit. It was informed that the proposal envisaged expansion of Ammonia & Urea Project for 2400 MTPD Ammonia & 4200 MTPD Urea and Captive power plant of capacity 2x25 MW. The expansion was proposed to be carry out on 18 ha vacant lands available within the plant area, but the expansion work was not initiated because the Department of Fertilizer, GOI vide letter dated 9th May 2013 advised that the project work should proceed ahead only after approval of the Department of Fertilizer. However, single walled Ammonia Storage Tank was replaced with new Ammonia storage tank of double wall double integrity type considering safety aspects and as per one of the conditions of the environmental clearance. The unit has valid amended Consolidated Consent and Authorization (CC&A) from GPCB vide order dated 22.10.2019 for production of 4,01,500 MTPA of Ammonia, 6,02,250 MTPA of Urea (100%) Max or, 5,44,500 MTPA Urea & 1,77,690 MTPA of DEF (32.5% of urea solution) Max or, 5,44,500 MTPA Urea & 1,44,375 MTPA of DEF (40% of urea solution) Max for the existing project. The Ministry's Regional Office at Bhopal vide letter dated 2nd November, 2020 has forwarded the compliance status of the existing environmental clearance conditions.

10. The proposal was considered by the Expert Appraisal Committee (Industry-3) in its meetings held on 29-30 December, 2020 & 14-15 January, 2021 in the Ministry, wherein the project proponent and their accredited consultant M/s EQMS India Pvt Ltd presented the EIA/EMP report as per the ToR. The Committee found the EIA/EMP

report complying with the ToR and recommended the project for grant of environmental clearance.

11. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with EIA/EMP report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the EIA/EMP report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The Committee has also deliberated on the activities/action plan and found to be addressing the issues in the study area. The Committee has suggested that the storage of toxic/explosive raw material shall be bare minimum in quantity and inventory.

The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of environmental clearance.

12. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

13. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-3), Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for **Expansion/Modernization of the Fertilizer Plant by M/s Indian Farmers Fertiliser Cooperative Limited at Plot no. 712/846, 855, 856 of Saij, 17-37 of Dhanaj, Kasturinagar, Kalol, District Ghandhinagar, Gujarat**, under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as under:-

- (i) The company 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.

- (ii) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development.
- (iii) 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.
- (iv) The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.
- (v) Occupational health centre 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 required safety kits/mask for personal protection.
- (vi) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (vii) 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.
- (viii) Safety and risk assessment studies shall be conducted and action plan and mitigation measures shall be properly implemented.
- (ix) 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. (e) Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses. (f) All the solvent storage tanks shall be connected with vent condensers with chilled brine circulation.
- (x) Volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.99% with effective chillers/modern technology.
- (xi) Total fresh water requirement shall not exceed 10371 cum/day proposed to be met from existing water supply from Narmada canal to the IFFCO Kalol unit. Necessary permission in this regard shall be obtained from the concerned regulatory authority, and renewed from time to time.
- (xii) Storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water 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.
- (xiii) The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b)

Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.

- (xiv) The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. 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.
- (xv) The activities and the action plan proposed by the project proponent to address the socio-economic 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.
- (xvi) 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.

13.1 The grant of environmental clearance is further subject to compliance of other general conditions as under:-

- (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 alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry/SEIAA to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (ii) The energy source for lighting purpose shall be preferably LED based, or advance having preference in energy conservation and environment betterment.
- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one station each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- (v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and to utilize the same for process requirements.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations

- for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- (viii) 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.
 - (ix) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
 - (x) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest 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.
 - (xi) A copy of the clearance letter shall be sent by the project proponent to concerned 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.
 - (xii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
 - (xiii) 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 Regional Offices of MoEF&CC by e-mail.
 - (xiv) 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 <https://parivesh.nic.in/>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.
 - (xv) 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.
 - (xvi) 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 this project.

14. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

15. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

16. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

17. The above conditions shall be enforced, *inter-alia* under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

18. This issues with approval of the competent authority.


(Dr. R. B. Lal)

Scientist 'E'/Additional Director


Tele-fax: 011-24695362

Email: rb.lal@nic.in

(डा. अरु. बी. लाल)
(Dr. R. B. Lal)
वैज्ञानिक 'ई' / Scientist 'E'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Govt. of India, New Delhi

Copy to: -

1. The Deputy DGF (C), MoEF&CC Regional Office (WZ), E-5, Kendriya Paryavaran Bhawan, E-5 Arera Colony, Link Road-3, Ravishankar Nagar, Bhopal -16
2. The Secretary, Forests and Environment Department, Government of Gujarat, Block 14, 8th Floor, Sachivalaya, Gandhinagar (Gujarat) -10
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10A, Gandhinagar (Gujarat) - 10
5. The District Collector, District Gandhinagar (Gujarat)
6. Guard File/Monitoring File/Website/Record File/Parivesh Portal


(Dr. R. B. Lal)

Scientist 'E'/Additional Director

ANNEXURE I

**Photographs of activities for plant
40,000 nos. tree saplings**

Photographs of various activities for plantation of 40000 tree saplings at IFFCO – Kalo



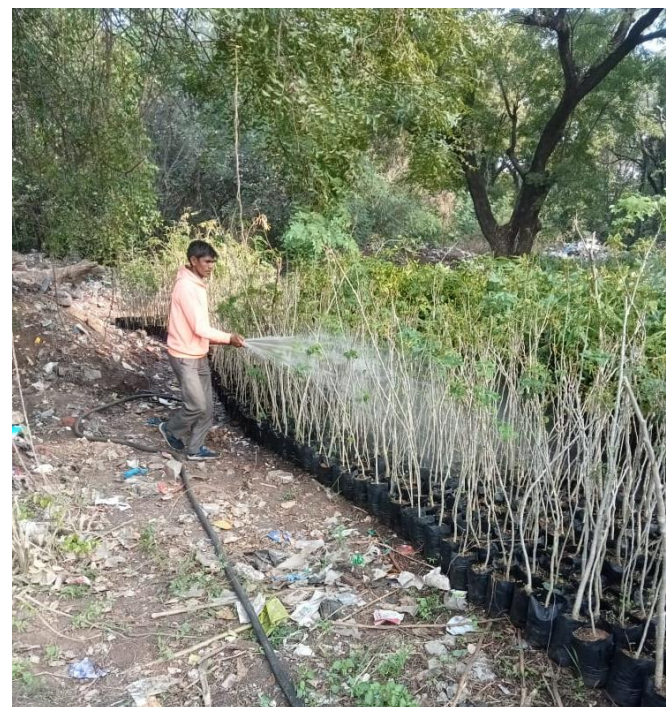
Step – 1 : Some of the Photos showing identified area for tree plantation



Step - 2 : Some of the Photos showing site cleaning activities



Step - 3 : Some of the Photos showing marking for pits and digging activities



Step - 4 : Some of the Photos showing delivery of tree sapling at IFFCO Kalol



Step - 5 : Some of the Photos showing application of nutrients like vemicompost, farm yard manure and rice husk before plantation of tree saplings

ANNEXURE I a
PHOTOGRAPHS OF ETS

Photos of Effluent Treatment System (ETS) at Nano Fertiliser Plant



ANNEXURES

ANNEXURE II
DETAILS OF EPC AND LABORATORY

Environmental Management Department & Facilities available in IFFCO Laboratory

IFFCO Kalol Unit committed for continual improvement on its environmental performance. The unit has separate Environmental Management Department and full-fledged laboratory facilities.

The Environment Management department is headed by Jt. GM (Environment & Pollution Control) who reports to Unit Head directly. Two officials are dedicated for normal activities of the section and they directly report to the Jt GM (EPC). Hierarchy of the Section is given in **Figure 1** and Organizational work station w.r.t Environment, Health and Safety is given in **Figure 2**.

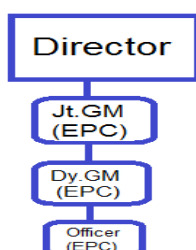


Figure 1: Hierarchical of Environmental Management Cell

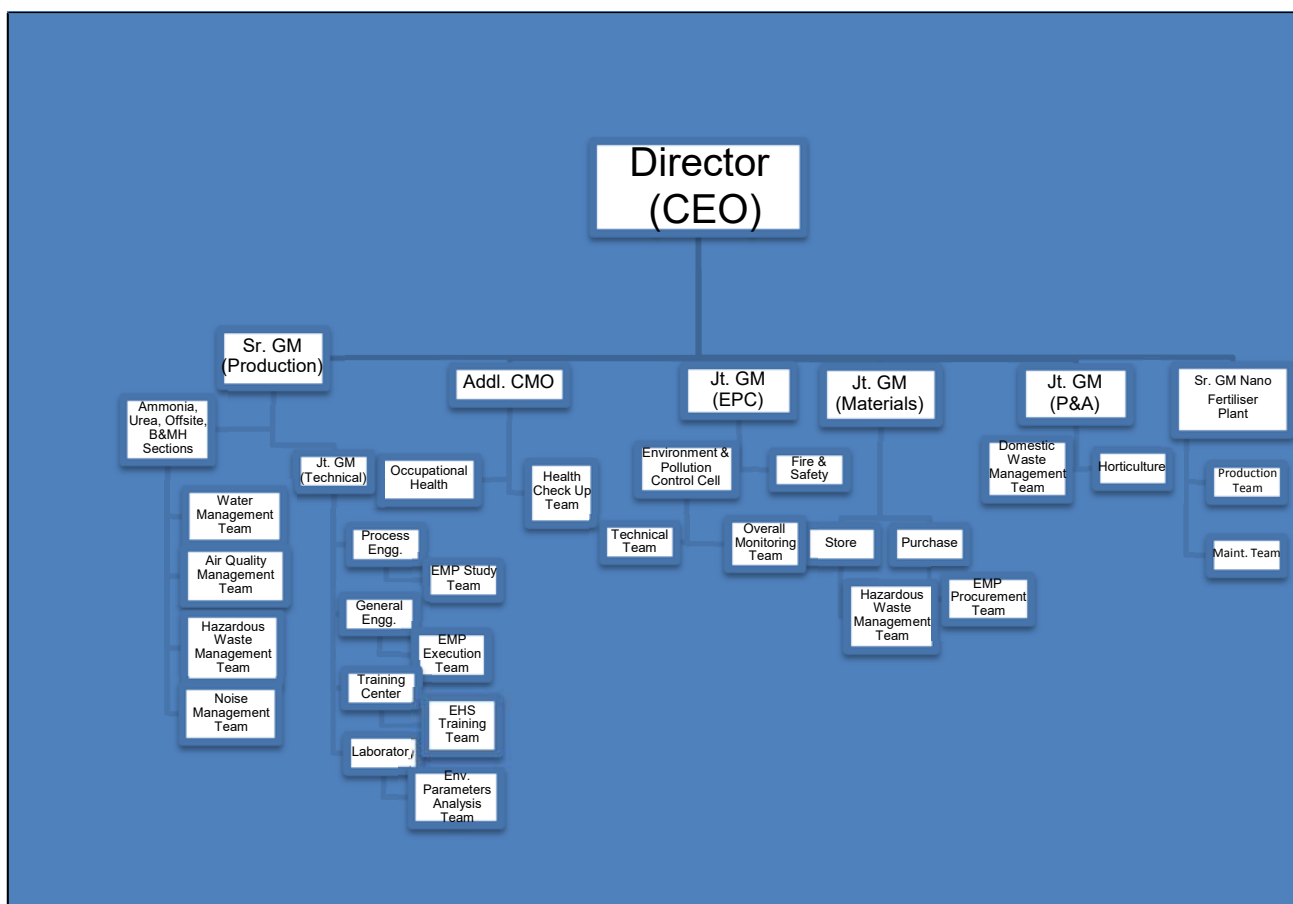


Figure 2: Organizational work station w.r.t Environment, Health and Safety



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Jt. GM (EPC) & Head (F&S) and Addl. Chief Medical Officer co-ordinates all related activities Such as Environment, Safety & Health of employees, workers and surrounding community and prepare statistical records.

I. Responsibilities of Jt GM (EPC) & Head (F&S) are as below:

- i. Responsible for maintaining Effective Environment Management System with focus on pollution prevention & resource conservation.
- ii. Responsible for maintaining Effective Safety Management System to achieve safe work environment and Zero incident
- iii. Developing and maintenance of green belt with the support of P & A Dept (Horticulture section).
- iv. Environmental monitoring of the plant and surrounding area.
- v. Ensure to carry out EHS Management Plan / programme as per the schedule.
- vi. Regular training to employees on Safety and Environment related Topics.
- vii. Regular monitoring of stacks, ambient air, noise etc either internally or by appointing external agency and data analysis. Corrective and preventive action, wherever required.
- viii. Hazardous wastes management and handling
- ix. Ensure submission of various statutory reports like Environment statement as per form V, Records of Hazardous waste Handling & Management as per form III & IV
- x. Carrying out Environment audit by Schedule I auditor appointed by GPCB,
- xi. Ensuring timely submission of applications for renewal of consents under Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981 as well as application for authorization and its renewal under Hazardous & Other Waste (Management and Transboundary Movement) Amendment Rules, 2016, and amendment thereof under Environment Protection Act, 1986.

II. Responsibilities of Addl. Chief Medical Officer are as below:

- i. Pre, periodical and post medical check of employees
- ii. Conducting audiometry test for employees
- iii. Awareness Training to employees & their dependents on Health
- iv. Proper collection, storage and disposal of biomedical waste.
- v. Medical check-up all contract workmen
- vi. Periodic medical check-up all contract workmen working in hazardous area
- vii. Ensuring required infrastructure at the plant and township dispensary



Facilities available in IFFCO laboratory

IFFCO has established laboratory facilities in the plant with 13 skilled personnel for monitoring and analysis. Required facilities for chemical & biochemical analysis has been set up in plant premises. Various quality monitoring instruments are available at Central Laboratory for analysis of (a) raw materials (b) gaseous and liquid composition in the ammonia and urea process (c) Final product (d) HDPE bags for packing of urea. Standard methods are used for collection of liquid and gaseous samples. All the relevant Environment and quality monitoring instruments are calibrated periodically through external agency / inhouse. Standard operating procedures for analysis of various parameters have been prepared and followed.

Treated water from ETP is analyzed for specific parameters every shift of 8 hours duration. PM_{2.5}, PM₁₀, Ammonia, SO_x, NO_x in ambient air and noise level at different locations of the plant are analyzed / measured every week. Samples from Prill tower vent, BHEL boiler stack, Primary reformer stack are collected and analyzed by IFFCO Lab as per the requirement. All Environment related parameters w.r.t Process & Fuel stack emission, ETP outlet and noise level at various locations, Ambient Air are analyzed / measured by NABL approved Laboratory on monthly basis.

List of Instruments available in laboratory pertaining to environmental analysis is given below in **Table 1.**

Table 1: List of Instruments available in laboratory

S. No.	Description	S. No.	Description
1	Electronic Balances	18	Stirrer
2	Hot Air Oven	19	Conductivity Meter
3	Muffle Furnace	20	Sound Level Meter
4	Karl Fischer Titrator	21	Flue Gas Analyzer
5	Stack Monitoring Kit	22	Handy Sampler
6	pH Meter	23	B.O.D. Incubator
7	Respirable Dust Sampler	24	Laminar Flow Station
8	Centrifuge Machine	25	Oil Bath
9	Turbidity Meter	26	Auto Titrator
10	Water Purifier Unit	27	Oxygen Meter
11	Wet Gas Flowmeter	28	High Volume Sampler
12	UV-Vis Spectrophotometer 1800 / 1700	29	Humidity Monitor
13	Water Bath	30	Hot Plate
14	Weather Monitoring Station	31	Autoclave
15	Dew Point Analyzer	32	Do Meter
16	Vacuum Pump	33	Magnetic Stirrer
17	Flame Photometer		

Photographs of Laboratory is shown in **Figure 3**.



Figure 3: Photographs showing inside view of Laboratory

ANNEXURES

ANNEXURE III
ONSITE AND OFFSITE EMERGENCY PLAN



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ONSITE EMERGENCY PLAN



INDIAN FARMERS FERTILISER CO OPERATIVE LIMITED

KALOL UNIT

P.O.KASTURINAGAR DIST: GANDHINAGAR. PIN: 382423

ONSITE EMERGENCY PLAN

IN

COMPLIANCE OF

THE FACTORIES ACT, 1948

[See Section 41 B(4)]

&

THE GUJARAT FACTORIES RULES, 1963

[See Rule 68 J, Schedule – 8(A)]

PREPARED BY

FIRE & SAFETY DEPARTMENT

INDIAN FARMERS FERTILISER CO OPERATIVE LIMITED

KALOL UNIT

P.O.KASTURINAGAR DIST: GANDHINAGAR. PIN: 382423

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ANNEXURE IV
DETAILS OF DISASTER MANAGEMENT & PREVENTIVE
MEASURES

Details of Disaster Management & Preventive Measures to minimize occupational hazards

I. Safety Measures

- OH & S policy at corporate level and IMS policy at Unit level and said Policies of IFFCO are given in Figure 1 and Figure 2.
- Hazard Identification and Risk Assessment
- Work Permit System procedure has been established for safely execution of job.
- Lock Out and Tag Out procedure has been established for Isolation of energized equipment's/machineries.
- Standard Operating procedures.
- Start-up procedure Shut down procedure, emergency procedure.
- Inbuilt safety measures such as trips, alarms, logics.
- All the pressure vessels/pipelines are provided with Safety Relief Valves, Audio-Visual alarms, trips, Safety interlocks.
- Mechanical integrity through Preventive Maintenance for all the machineries at regular intervals.
- Safety instrumentation- DCS System for plant process monitoring.
- Insulation of all the process equipment's which are subjected to high temperature conditions.
- Worker's participation in Safety Management system:- Safety committee meetings, employee suggestion schemes.
- Incident Investigation & reporting.
- Online near miss reporting
- DISH Certified competent persons for issuing work permit to carry out jobs in confined space.
- DISH Approved training centre to impart training for all the level of employees/Contract workmen.
- MSDS related to all the chemicals used in IFFCO Kalol complex are available
- Explosive concentration checking near the flanges.
- Fire resistant construction for all reaction vessels.
- Flame Retardant Low Smoke (FRLS) Cables are installed for electrical network.
- All the electrical fittings are provided with fuses, relays, circuit breakers.
- Management level Visual Inspection committee which quarterly carries out Hazardous Installation Inspection at these places.
- Various internal and external safety audits, Plant Safety committee, Housekeeping committees formed which conduct their audits regarding OS & H and demand time bund compliance.
- Hazardous areas already barricaded and separated from other operating units by proper separation distances. In such area, all equipment's used are flameproof and intrinsically safe.
- Plant Safety Inspections
- Hazard communication by the means of Safety Bulletin, Safety Posters, Caution boards.
- Chemicals are stored at isolated storage facility and labelling also done for identification of the container/chemicals.
- On-site emergency plan
- Mock drills
- Various PPES, Fire extinguishers, safety showers, First aid boxes (filled) & on line air masks, Gas masks etc are provided at various Hazardous installations

II. Fire Protection Measures

- Full Fledged Fire & Safety department with professionally qualified, experienced & skilled staff.
- Under Ground fire Hydrant system all over the plant as well as water and foam monitor system in crucial areas.
- Installation of DCS for effective F&S Control Room operation.
- Fire extinguishers of different types provided all over the plant areas and buildings at strategic locations.
- Fire Hydrant & Riser system with Hose boxes – for empty bag storage areas.
- FM-200 Local application system for the protection of Server room.
- Modular type Halotron fire extinguishers & NOVAC Based Automatic Fire Suppression system & Smoke detection system has been installed at Plant telephone exchange.
- NOVAC Based Automatic Fire Suppression system & Smoke detection system has been installed at Server room of IT Services.
- Analog addressable fire detection system at various plant control rooms, Electrical MCC's and buildings.
- Manual call points at strategic locations all over the plant premises.
- Various Fire & Safety Appliances like Foam Tenders, Fire Jeep, Water Jet Monitors, Foam Monitors, Fire Pumps (Elect.) Fire Pumps (Diesel), Jockey Pumps and Air Compressors.
- Remotely operated sprinkler system for Ammonia loading pumps, Ammonia loading gantry (rail & road) at storage area, ammonia & carbamet pumps in Urea plant.
- Water curtain system along the stairs of Urea prill tower.
- Clean agent fire extinguishers for office building areas.
- State of art beam detection system has been installed at Urea empty bag Storage area in Bagging Plant.

III. Safety Training

IFFCO Kalol unit is having a DISH (Directorate of Industrial Safety & Healthy) approved training center.

Following training programs are conducted for the Employees, contract workmen, GETs, apprentice trainees, IFFCO Trainees and Vocational trainee

- **Induction training:** For newly joined IFFCO employee, GETs, apprentice trainees, IFFCO Trainees and Vocational trainee
- **Induction training:** For contract workmen by F&S Department.
- **Job specific training:** Toolbox talk related to specific job like welding, cutting, grinding, vessel entry, work at height, excavation, handling hazardous chemicals etc.
- **Refresher training:** In the month of January for employees as well as contract employees, GETs, apprentice trainees, IFFCO Trainees and Vocational trainee.
- **Community awareness:** To nearby villagers, school students at regular interval
- Employees are sponsored for SHE training programs at various reputed institutions.
- Regular drills and training are conducted for F&S staff at Fire station.

Safety improvement measures implemented during the calendar year 2022-23

1. - To create safety awareness & consciousness, regular training and re-training / refresher programmes are conducted for employees and contractor's workmen.



- Training on use of Fire & Safety Equipments was given to all the control room staffs and administration building employees and contract workmen.





- Refresher training on use of Fire & Safety Equipments given to all Contract Staffs.





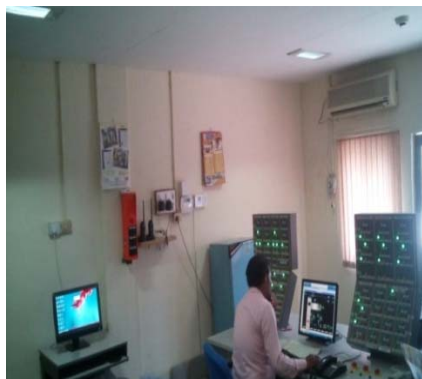
- Chemical Safety Training was given to all the staffs of Nano fertiliser plant and NBRC.




2. **NOVAC Based Automatic Fire Suppression system, Smoke detection system & FM 200 flooding system has been installed at Plant telephone exchange.**



3. **Wireless Smoke detection and fire alarm system has been installed at Narmada Water Treatment Plant.**



4.	<p>CO₂ Flooding system has been provided for Fire protection of Electric panel at NFP.</p> 
5.	<p>Analog addressable fire detection system has been installed at various plant control rooms (Amm. Storage, IG Plant, Cooling tower, DM Plant), Training Centre building & Cable trench in MCC Buildings.</p>
6.	<p>SOPs related to Fire & Safety equipments have been revised.</p>
7.	<p>Training module for contract workmen, GETs, GEAs, Apprentices has been revised.</p>
8.	<p>Various safety promotional activities done during safety week celebration (51st National Safety week from 26.02.2022 to 04.03.2022) like;</p> <ol style="list-style-type: none"> 1. Safety Poster competition for the children (dependent of Employees) 2. Safety Slogan competition. 3. Best near miss award
10.	<p>Installation of Ammonia gas detectors at Ammonia, Urea pant and Ammonia storage area.</p>



ANNEXURES

ANNEXURE V
FUGITIVE EMISSION CONTROL MEASURES



Measures for Fugitive Emission Control

Annexure - V

Fugitive emissions are generated more specially while transporting and handling product. Following measures are adopted in the plant to reduce the fugitive emissions.

Vibro Priller in Urea Plant

Vibro Priller which was developed by Chem seals Engineering, Mumbai / RPF "Grace Engineering", Ukraia, has been installed and taken in line to improve product quality, w.r.t. uniform product size distribution and to reduce PM emission level..

The Vibro Priller is designed to reduce the product temperature by uniform distribution over cross-sectional area of prill tower and also avoid deposition on prill tower inside wall. The technical advantages are uniform product size, reduced temperature of product at bottom of prill tower, improved crushing strength and reduction in dust emission from prill tower. New type of vibrator based on magnetostriction principles has been developed (a property of ferromagnetic materials that causes them to change their shape or dimensions during the process of magnetization). A control unit is provided which has the ability to control the vibration in automatic mode depending on the changing melt level.

Benefits from the Vibro priller in Urea plant is mentioned below

- Uniform prill size is achieved
- Reduction in the temperature of urea prill in the range of 10 to 15 °C at bottom of prill tower with the same air flow.
- Crushing strength has improved compared the previous bucket (around 23 kg/cm²)
- Prill tower emission has reduced from 130 mg/Nm³ to less than 100 mg/Nm³.
- Frequency of prilling section shut down has reduced due to less scrapper build up
- No deposition of dust has been observed inside the wall of prill tower
- Prill cooling system load has reduced
- Dust dissolving batches has been reduced by 30 to 40%
- Quantum of less than 1 mm particle size is less than 1%.

Installation of Ammonia Scrubber (V-1207) to scrub vent scrubber (V-1203) off gases

To recover ammonia and to bring down the concentration of ammonia in vent gases within the limits specified by GPCB, one additional scrubber using DM water as scrubbing media has been installed at the downstream of vent scrubber (V-1203) to scrub gases from vent scrubber. About 2 t/h DM water is used for scrubbing. Now the vent gases from the scrubber contains less than 100 ppm ammonia. The scrubber is of 0.4 meter diameter and located above prill tower. Existing valve PICV-1202 has been shifted to downstream of the scrubber, which maintains pressure of the scrubber at around 6 kg/cm²g. A new HICV has been provided in the place of existing PICV- 1202. This valve is to be operated during plant upsets to avoid any liquid carryover to the scrubber.



Dust Collection system in Urea Storage Silo

Urea prills from prill cooling system is sent to bagging plant via silo/transfer tower. During this transition, dust is generated in the silo due to urea prills free falling, reclaiming, transfer of urea prills from one conveyor to another conveyor etc. In order to provide cleaner environment, wet scrubbing system including air ducting, venturi scrubber, volume separator, exhaust air fan, urea solution tank, pumps along with associated piping and instrument for the silo/transfer tower area has been installed.

Dust Collection system in B & MH plant

Urea prills from Prill cooling System/Silo is sent to bagging plant for bagging of urea prills. During the transition of urea prills, dust is generated in B & MH Plant at various points such as hoppers, conveyors and Bagging machines. In order to provide clear environment, a improved dust extraction system including cyclone scrubber, dedusting fan, ducting, stack, urea solution tanks, pumps along with piping and instrumentation was installed in B & MH Plant. The new improved Dust Extraction System is operated for clear environment in B & MH Plant. Photographs showing same are given in **Figure 1**.

Ammonia Recovery Unit in Ammonia Plant

Ammonia Recovery Unit (ARU) is installed and commissioned to treat ammonical water effluent from wash section of purge gas plant (PGR) and process condensate stripper of ammonia plant. The ammonical effluent (4%) from PGR was earlier used in regeneration of resins in water treatment plant. Now 4% caustic solution is used for regeneration of resins in WTP. The ARU consist of distillation column with provision of steam stripping for lean ammonical solution. About 3.5 MT/ day of ammonia is being recovered and the effluent water is used as Cooling tower make-up.

MP Process Condensate Stripper (1104-E, 1170-C A/B, 1170-J/JA) in Ammonia plant

Earlier, process condensate was treated in LP process condensate stripper (104-E) and about 6 MT/hr vapours, containing CO₂, methanol and ammonia, were vented to atmosphere.

As a part of resource and energy conservation, New MP Process Condensate Stripper (1104-E) has been installed with feed pumps (1170-J A/B) and Feed/Effluent exchangers (1170-C A/B) in place of LP process condensate stripper (104-E) and associated system (170-J/JA, 170-C/171-C) during 2016-17. Now, there is no venting of Off gases to atmosphere and the off gases containing ammonia is recycled back to the system.

Other measures adopted in the Plant

- Preventive measures like SOPs, Work Permit System, and Physical inspection / Monitoring of equipment are taken to eliminate the chance of accident on account of explosion, spillages, fire or hazardous substances etc.
- The finished product is being transported through Rail and trucks. The rail yard exists within the plant for transportation of finished product.
- Compressors are provided at Ammonia Storage tank to maintain tanks pressure by converting vapor Ammonia to Liquid Ammonia and then returning into Tanks.



- Ammonia gas detectors are installed at identified locations near Ammonia storage Tanks.
- Automatic weighing and Bagging machine are provided with system to reduce fugitive emission.
- Any Spillage/emission of Urea dust during different activities of urea handling/ manufacturing process is being collected & treated in de-dusting system and recirculated within the process after making urea solution.
- All trucks with urea bags are transported after proper covering from the top.
- Bag Filters and ID fans are provided for collecting fugitive emissions for recycle into process
- De-dusting system is provided at the railway yard to collect fugitive emission of urea.
- Breather Valves are used in the ammonia storage tanks.
- Proper maintenance & operation for leak proof condition of machineries are carried out on regular basis.
- Sensors and detectors are provided at strategic locations for early detection of any leak.
- Fire hydrant system is provided as per defined guidelines to fight any emergency.
- Airborne dust at all transfers operations/ points are controlled either by spraying water or providing enclosures.
- Regular maintenance of valves, pumps and other equipment are being done to prevent leakages and thus minimizing the fugitive emissions.
- Entire process is carried out in the closed loop with proper maintenance of pressure and temperature.
- Periodic monitoring of work area is being carried out to check the fugitive emission.
- To eliminate chances of leakages from glands of pumps, mechanical seals are provided at all ammonia pumps.
- Good housekeeping, proper maintenance and continuous monitoring & inspection will prevent the chances of any fugitive emission from the process plant.

When monitoring results, indicate parameters above permissible limit, necessary corrective action is carried out immediately.



Dust Extraction System in Bagging & Product Handling Unit



Urea Prill Tower with Vibro Priller



Dust Extraction System in Silo (Urea Storage Area)

Figure 1: Photographs of Dust Extraction System and Urea Prill Tower

ANNEXURE VI
MEASURES ADOPTED TO REDUCE FRESH WATER USES

Major pollution abatement measures implemented for recycling and reusing of treated water and optimum utilisation of Raw/Fresh water

Sr. No.	Plant	Effluent Generated	Pollution Control Device	Method of Control
1.	Ammonia Plant	Process Condensate	Process Condensate Stripper in Ammonia plant	Process condensate from ammonia plant is stripped in MP Process condensate stripper to remove and recycle the dissolved impurities like methanol, ammonia and CO ₂ . The stripped process condensate is reused as boiler feed water after passing through polisher unit.
		Ammonical water from purge gas recovery (PGR) Unit	Ammonia Recovery Unit in Ammonia Plant	To treat ammonical water effluent from purge gas unit (PGR) in Ammonia plant, Ammonia Recovery Unit (ARU) has been installed. The system consist of distillation column with provision of steam stripping for lean ammonical solution. About 3.5 MT/ day of ammonia is being recovered and the effluent water is reused as Cooling tower make-up.
		Condensate from steam condensers.	Condensate Polisher Unit	Steam condensate from ammonia plant having traces of dissolved impurities are passed through Condensate Polisher Unit and then reused as boiler feed water.
		Condensate from Air compressor inter coolers	Reused as cooling tower make up	The pure condensate from all the three inter-stage coolers of air compressor is collected and sent to jacket cooling water sump. Finally, it is reused as cooling tower make up water.
		Ammonical water from inter stage separator of syn gas compressor	Ammonia recovery unit / Hydrolyser stripper unit	Ammonical water from inter-stage separator of Syn Gas compressor is collected and sent to ammonia recovery unit / hydrolyser stripper unit and then reused as cooling tower make.
		Continuous blow down from steam drum.	Reused as cooling tower make up.	Blow down from steam drum is used for heating tail gas and then finally reused as cooling tower make up.

Sr. No.	Plant	Effluent Generated	Pollution Control Device	Method of Control
2.	Urea Plant	<p>Process Condensate</p> <p>Turbine Condensate</p> <p>Steam Condensate</p> <p>Condensate from inter-stage coolers of CO₂ compressor</p>	<p>Hydrolyser System</p> <p>Reused as boiler feed water</p> <p>Reused as boiler feed water</p> <p>Reused as cooling tower make up water</p>	<p>Process condensate from Urea plant contain 5.5 to 6.5% of Ammonia and 3.0% of Urea. It is treated in Urea Hydrolyser System, where urea is decomposed to Ammonia and Carbon Dioxide. The recovered ammonia and carbon dioxide is condensed in reflux condenser for use in process. The condensate is sent to cooling tower to use as cooling tower make up water.</p> <p>The surface condensate from CO₂ Compressor turbine is sent directly to de-aerator after heating to 96°C in surface condenser heater for use as boiler feed water.</p> <p>First stage evaporator steam condensate, is sent directly to deaerator in steam generation plant All other steam condensate is collected in the atmospheric condensate tank and the condensate is used as make-up to steam drum in urea plant and balance quantity is transferred to steam generation plant (BHEL boiler).</p> <p>A condensate outlet from inter-stage separators is connected to CO₂ spray cooler sump and from there it is pumped to use as cooling tower make up.</p>
3.	Steam generation plant	<p>Continuous blow down</p> <p>Steam Condensate</p>	<p>Reused as cooling tower make up</p> <p>Reused as boiler feed water</p>	<p>Blow down from steam generation plant is used as cooling tower make up.</p> <p>First and second stage evaporators steam condensate, is sent directly to deaerator in steam generation plant All other steam condensate is collected in the atmospheric condensate tank and the condensate is used as make-up to steam drum in urea plant and balance quantity is transferred to steam generation plant (BHEL boiler).</p>

ANNEXURE VII
EMAIL SENT TO CPCB



Wholly owned by Cooperatives

INDIAN FARMERS FERTILISER COOPERATIVE LIMITED
KALOL UNIT

P.O. Kasturinagar, Dist.: Gandhinagar (North Gujarat)
PIN Code : 382 423 (INDIA)

Annexure - VII



EPC/02/2300

Date: 21.7.2018

Central Pollution Control Board,
IT Division, 5th Floor
Parivesh Bhavan
East Arjun Nagar, Delhi 110032.

Kind Attn : Sri. Aditya Sharma, Scientist D, IT Division.

Sub: To check tampering of online continuous emission monitoring system (OCEMS) data through Remote calibration for emission parameters.

Ref:1) Direction received from the CPCB vide notice No 12011/33/2018/IT-RCAL dtd 25.6.2018

2) GPCB letter No GPCB/CCA-GNR-95(7)ID-16444, vide Outward No 459247 dtd 26.6.2018

Dear Sir,

With reference to above, our observations / action taken are as under:

Trial runs of PM analyzer (Make: Durag) which was installed at ID fan stack of urea prill tower were not successful. It was communicated to the supplier M/s Adage Automation, Mumbai. In response to it, Representative from Adage Automation visited site and removed the unit from prill tower ID Fan on 15.2.2018. This has already been communicated to CPCB vide our E-Mail msg dtd 2.7.2018 under the subject "OCEMS Compliance reporting protocol: IFFCO: Kalol Unit", copy of which is attached herewith as **Annexure - I**

In view of above, compliance of following points as mentioned in above referred GPCB letter (copy attached as **Annexure - II**) is not applicable for IFFCO - Kalol Unit.

- Calibration facility for OCEMS is available at the Industry.
- Instruments are periodically calibrated and calibration data is also entered automatically into the system through the software installed at industry.
- Remote calibration facility is available at each gaseous OCEMS

This is for your kind information please.

Thanking you.

Yours faithfully,
For, IFFCO Kalol Unit

26/7/18
Gujarat Pollution Control Board
Head Office
Sector No. 10-A,
Gandhinagar-382010

26/7/18
ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડ
પ્રાદેશિક કચેરી
પર્યાવરણ ભવન, સેક્ટર-૧૦-એ,
ગાંધીનગર-૩૮૨૦૧૦

D.G. Inamdar
(D.G. Inamdar)
General Manager

Encl: as above

cc : (1) Mrs. Dipali Tank, Unit Head- Gandhinagar, GPCB, Gandhinagar
(2) Mr. D C Vankani, Regional Officer, GPCB, Gandhinagar

Phone: 079-23282005, 02764-223256, 223258
Fax : 079-23286020

Email : dginamdar@iffco.in
Web Site Address: www.iffco. in



To: aditya.cpcb@nic.in, cems.cpcb@nic.in,
Cc: opdayama/kalol/iffco@iffco, epckalol/kalol/iffco@iffco,
Bcc: smohan/kalol/iffco,
Subject: Revised Mail on OCEMS Compliance reporting protocol - IFFCO : Kalol Unit
From: smohan/kalol/iffco - Monday 07/02/2018 11:46 AM

Dear Sir,

This is with reference to the telephonic talk which I had with you on 28.6.2018 regarding subject matter.

In this context, required data / information under OCEMS - Compliance reporting protocol for IFFCO-Kalol Unit have already been submitted online in CPCB Website.

Copy of acknowledgement slip is attached herewith for your reference.



OCEMS - Compliance reporting protocol - Acknowledgement slip.docx

Following are the Revised deviations / observations.

- 1) In the protocol, ETP - online continuous monitoring parameters such as Flow and ammonical nitrogen have been combined together. Hence there is no provision for mentioning characteristics of flow meters and ammonia analyser separately.
- 2) The system was not accepting industry code of IFFCO - Kalol unit i.e 07GJ007. Hence same has been mentioned alongwith industry name.
- 3) PM Analyser (Make : Durag) was supplied and installed at Prill tower ID fan by M/s Adage Automation, Mumbai on trial basis. But the trial runs were not successful. Same was communicated to the supplier. Accordingly representative from M/s Adage Automation visited site and removed the unit from prill tower ID fan on 15.2.2018

As per your advise, above points have been highlighted in the space meant for deviations / observations (Ref : Clause No 23 of Part III, Section H) of the protocol.

This is for your information please.

Regards,

S. Mohan
Dy. GM (Env & Pollution Control)
IFFCO Kalol Unit
Ph.: +91-9409307406 (M)
; 079-23282029 (O)

Industry Information

PDF Request

Industry Name: Indian Farmers Fertiliser Cooperative Ltd, Kalol Unit, Industry code 07GJ007

Address: Indian Farmers Fertiliser Cooperative Ltd, Gandhi Nagar Dist, Gujarat

Primary Contact: S Mohan, 9409307406

Last Updated: 29-06-2018 04:05:19

Edit Request Status: No Edit Request

Industry Category: Fertilizer

Present in Ganga Basin: no

Secondary Contact: R H Vora, 9409307405

Status: Submitted

Calibration Information

Calibration Information

+ Add

Add

Show 10 entries

Search:

Sl.No	Process ID	Discharge/Stack ID	Parameter Name	Last Updated Date	Actions
1	Ammonia - Urea complex	Outlet of Effluent Treatment Plant (ETP)	pH	05-06-2018 05:31:02	
2	Ammonia - Urea complex	Outlet of Effluent Treatment Plant (ETP)	Flowandammonicalnitrogen	05-06-2018 05:31:02	

Showing 1 to 2 of 2 entries

First Previous 1 Next Last





GUJARAT POLLUTION CONTROL BOARD

PARYAVARAN BHAVAN

Sector-10-A, Gandhinagar 382 010

Phone : (079) 23222425

(079) 23232152

Fax : (079) 23232156

Website : www.gpcb.gov.in

R.P.A.D.

GPCB/CCA-GNR-95(7)/ID- 16444/

/date:

To.

M/s Indian Farmers Fertiliser Co-Operative Limited.

P.O.Kasturinagar. Dist- Gandhinagar.

Sub: To check tampering of online continuous emission monitoring system(OCEMS) data through Remote calibration for emission parameters.

Ref: Direction received from the Central Pollution Control Board(CPCB) vide letter No-C-1200/33/2017-2018/Tech/522 dated 16/04/2018.

Sir,

With respect to the above subject, the above referred CPCB letter dated 16/04/2018. Is enclosed here with for ready reference. You are hereby directed under Section 31 – (A) of the Air Act* 1981 to comply with following directions.

- A) Calibration facility for OCEMS is available at the industry end.
- B) Instruments are periodically calibrated & calibration data is also entered automatically into the system through the software installed at industry.
- C) Remote calibration facility is available at each gaseous OCEMS.

As directed remote calibration facility should be mandatory & should made available at industry on or before 31/05/2018.

You are hereby directed to submit above each point compliance report to office of CPCB with copy to this office.

This letter is issued after approval from competent authority.

Thanking You.

For & on behalf of
Gujarat Pollution Control Board

(Signature)

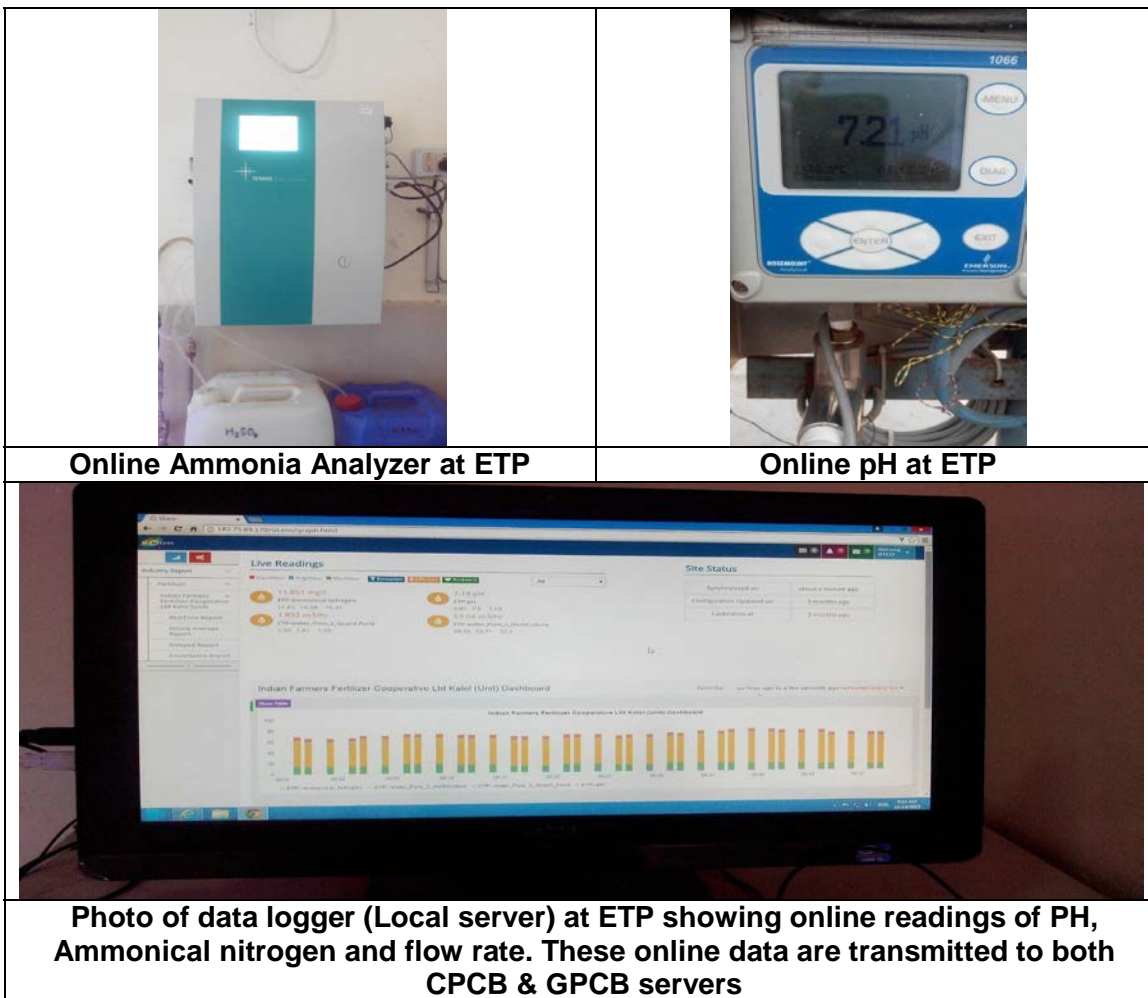
(Dipali Tank)
Unit Head

Outward No 459247 26/06/2018

ANNEXURE VIII
PHOTOGRAPHS OF CONTINUOUS ONLINE MONITORING
SYSTEM

Online Continuous Effluent Monitoring Systems (OCEMS)

Online instruments / analyzer for measurement of pH, Flow and ammonical nitrogen at the outlet of Effluent Treatment Plant (ETP) have been installed. Online data is captured in data logger and connectivity has also been established with both GPCB & CPCB Servers. Photographs showing the same is given below



ANNEXURE IX
STOCK OF TOXIC/HAZARDOUS RAW MATERIALS WITH
QUANTITY



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Annexure - IX

Details of stock of toxic/hazardous raw material with quantity in the IFFCO Kalol Unit

Sr. No.	Toxic/Hazardous Raw material	Usage	Mode of Transportation	No. of Storage Tanks	Storage Capacity	Type of Storage	Closing Stock as on 30.09.2023
1	RLNG	Raw material for Ammonia plant	Through pipeline from GSPC	--	--	45 Kg/cm ² Temp: 22-25 deg C: Continuous gas supply	Nil
2	Ammonia	Raw material for Urea plant	Through Pipeline from Ammonia plant to Urea	2	5000 MT + 10000	--	2733 MT
3	Carbon Dioxide (CO ₂)	Raw material for Urea plant	Through Pipeline from Ammonia plant to Urea	--	--	--	Nil
4	Hydro - Chloric Acid	For regeneration of Resins for Water	By Road Tanker of 12 MT	2	2 x160 MT	FRP tanks at NTP Conditions	238 MT
5	Sodium Hydroxide	For regeneration of Ion exchange Resin in Water treatment & to maintain	By Road Tanker of 12 MT	3	29.5 KL + 50 KL + 9.5 KL	MS rubber lined tanks at NTP Conditions	39 MT
6	Sulphuric Acid	To maintain Cooling Water pH in Cooling	By Road Tanker of 12 MT	3	33 MT + 20 MT + 5 MT	MS rubber lined tanks at NTP Conditions	30 MT
7	Chlorine	For prevention of microbiological growth in water in Cooling Tower	By Road in tonner of 1 MT	Stored in Tonners	--	--	7 MT

ANNEXURE X
DETAILS OF MEDICAL FACILITY AND OCCUPATIONAL
HEALTH CENTRE

Details of Medical Facilities at Occupational Health Centre (OHC) at IFFCO Kalol

1) Availability of staff at OHC:

- One Pharmacist / Staff nurse round the clock on OHC in shift duty.
- One Ambulance driver with well-equipped Ambulance.
- One doctor is available in OPD hours and on call basis in remaining time.
- One Safai Karmachari (Cleaner) is available in from 6 am to 10 pm as per their shift schedule.

2) Medical facilities at OHC:

- 2 (Two) Beds for first aid and daycare for emergency patient
- Oxygen Cylinder
- Oxygen Generator
- Defrillator for Cardiac Arrest patient
- Nebulizer for Asthmatic Patient
- ECG Machine
- Pulmonary Function Test Machine
- Suction Machine
- Breath Analyzer for Alcoholic patients
- Mercury free BP Apparatus
- Infrared Thermometer
- Sterilizer and Autoclave for Disinfection of Instruments
- Ultra Violet (UV) Chamber for disinfection of instruments
- One Auto loaded Stretcher for fast movement of patient
- One Eye Shower and Overhead Shower in front of OHC
- Color coded buckets for Bio Medical Waste Segregation as per GPCB guidelines
- Emergency Medicines
- OTC Medicines for OPD usage.

ANNEXURE XA & XB
MEDICAL CHECKUP REPORT

HEALTH REGISTER FOR WORKERS OF HAZARDOUS AREA

Unit	Kalol	Period	2023-II	Type of Employment	EMPLOYEE
1. Serial number in the register of the audit workers		110149			
2. Name of worker		SAMRAT S DARBAR			
3. Designation		Optr(Urea) Gr I			
4. Sex		MALE			
5. Age (in years)		37:3			

Dept	Name of Hazardous Process	Dangerous Process/ Operation	Name of occupation	Raw products/ byproducts	Date of Posting	Date of Transfer	Reason for Transfer	Date of Medical Examination	Signs and Symptoms Observed During Examination	Nature of result	Result Fit or Unfit	Period of temporary withdrawal from work	Reason for withdrawal	Date of declaring fit/ unfit	Date of issuing fitness certi.	Sign of factory medical officer
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
UREA	Working in Hazardous area		Optr(Urea) Gr I	AMMONIA, CONC.SULPHURIC ACID, PHOSPHORIC ACID, UREA, FILLER, DUST.				14/09/2023	P.R.- 86/min B.P.- 136/80mm Hg R.R.- 21/min CHEST- Normal CVS- Normal CNS- Normal P/A- Normal LIVER/ SPLEEN- NOT PALPABLE TEMPERATURE- AFEBRILE CYANOSIS- NOT PRESENT PALLOR- NOT PRESENT CLUBBING- NOT PRESENT AUDIOMETRY- Within Normal Limits SPIROMETRY- Within Normal Limits REMARKS-	NORMAL	FIT	Not Applicable	Not Applicable	14/09/2023	14/09/2023	DR. SAMYAK SOHAMB HAI LAKHIA

Note - 1. Seperate page should be maintained for individual worker.
2. Fresh entry should be made for each examination.

Unit	Kandla	Period	2023-II	Type of Employment	W
1. Serial number in the register of the audit workers		15			
2. Name of worker		Ashwinji Thakor			
3. Designation					
4. Sex		MALE			
5. Age (in years)		36			

Dept	Name of Hazardous Processes	Dangerous Process/Operation	Name of occupation	Raw products/byproducts	Date of Posting	Date of Transfer	Reason for Transfer	Date of Medical Examination	Signs and Symptoms Observed During Examination	Nature of result	Result Fit or Unfit	Period of temporary withdrawal from work	Reason for withdrawal	Date of declaring fit/ unfit	Date of issuing fitness certi.	Sign of factory medical officer
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
PRODUCT HANDLING	Working in hazardous area of production			AMMONIA, CONC.SULPHURIC ACID, PHOSPHORIC ACID, UREA, FILLER, DUST.				06/07/2023	P.R.- 68/min B.P.- 128/76mm Hg R.R.- 18/min CHEST- Normal CVS- Normal CNS- Normal P/A- Normal LIVER/ SPLEEN- NOT PALPABLE TEMPERATURE- AFEBRILE CYANOSIS- NOT PRESENT PALLOR- NOT PRESENT CLUBBING- NOT PRESENT AUDIOMETRY- Within Normal Limits SPIROMETRY- Within Normal Limits REMARKS-	NORMAL	FIT	Not Applicable	Not Applicable	06/07/2023	06/07/2023	DR. SAMYAK SOHAMB HAI LAKHIA

Note - 1. Seperate page should be maintained for individual worker.
2. Fresh entry should be made for each examination.

ANNEXURE XI
LIST OF PPE'S AVAILABLE AT VARIOUS AREAS

Details of PPE's

Sr. No.	PPE name	Ammonia	Urea	Offsite						PH	ELEC	LAB	Fire Tender	F & S STORE	TOTAL
				CR	NWT	ETP	Blr	CT	DM						
1.	B. A. Set (45 min)	04	04	02	01		02	--	--	--	--	--	04	08	25
2.	B. A. Set (10 min)	03	03+2	02	02	01	01	01	--	01	01	01	08	06	32
3.	Digital Explosive Meter & Gas Detector	01	01				01							04	07
4.	Safety Belts	04	02	02 O/M	01					04	01		02	21	37
5.	Face Shield	01	02	01	01		01	01	01	01	01	01		04	15
6.	Goggles	02	02	02	02		02	01	01	02	02	02			18
7.	Acid / Alkali proof Hand Gloves	02	02	02	02		04	02	02			02	04		22
8.	PVC Hand Gloves	02	02	02	02		02					02	04		16
9.	Basofil Hand gloves	02	02	02			02	02				02	04		16
10.	Chemical protection Suits	01	01	02	01		01	01	01			01	02	11	22
11.	Aluminized Suit	01	--										02	02	05
12.	Air Line Point at field	09	37	15	01									24	86
13.	Airline Point & Mask Set for CR	03	03	03			02							14	25
14.	Safety Showers	04	05	7	01	03		02	01	01				1Disp	25
15.	Canister Mask (Ammonia)	03	12	02				03	01					6+2	29

ANNEXURE XII
PHOTOGRAPHS OF TRAINING

Refresher F & S training is being imparted to all Employees and Contract Workmen

- 1.- To create safety awareness & consciousness, regular training and re-training / refresher programmes are conducted for employees and contractor's workmen.



- Training on use of Fire & Safety Equipment's was given to all the control room staffs and administration building employees and contract workmen.



- Refresher training on use of Fire & Safety Equipment's given to all Contract Staffs.



- Chemical Safety Training was given to all the staffs of Nano fertiliser plant and NBRC.



ANNEXURE XIII
DETAILS OF FIRE AND SAFETY SYSTEM AVAILABLE

Details of Fire & Safety Systems

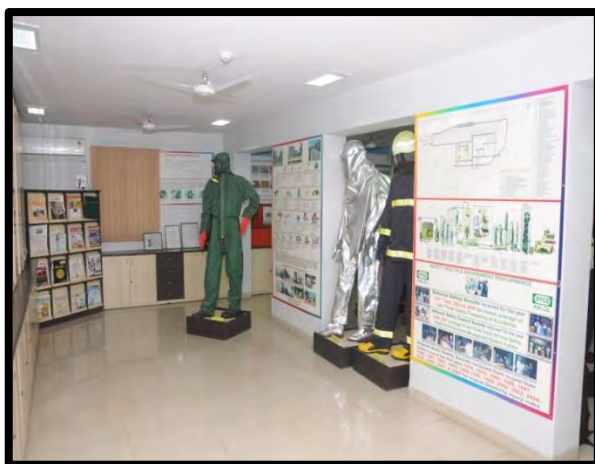
I. Safety Measures

- OH & S policy at corporate level and IMS policy at Unit level and said Policies of IFFCO are given in Figure 1 and Figure 2.
- Hazard Identification and Risk Assessment
- Work Permit System procedure has been established for safely execution of job.
- Lock Out and Tag Out procedure has been established for Isolation of energized equipment's/machineries.
- Standard Operating procedures.
- Start-up procedure Shut down procedure, emergency procedure.
- Inbuilt safety measures such as trips, alarms, logics.
- All the pressure vessels/pipelines are provided with Safety Relief Valves, Audio-Visual alarms, trips, Safety interlocks.
- Mechanical integrity through Preventive Maintenance for all the machineries at regular intervals.
- Safety instrumentation- DCS System for plant process monitoring.
- Insulation of all the process equipment's which are subjected to high temperature conditions.
- Worker's participation in Safety Management system:- Safety committee meetings, employee suggestion schemes.
- Incident Investigation & reporting.
- Online near miss reporting
- DISH Certified competent persons for issuing work permit to carry out jobs in confined space.
- DISH Approved training centre to impart training for all the level of employees/Contract workmen.
- MSDS related to all the chemicals used in IFFCO Kalol complex are available
- Explosive concentration checking near the flanges.
- Fire resistant construction for all reaction vessels.
- Flame Retardant Low Smoke (FRLS) Cables are installed for electrical network.
- All the electrical fittings are provided with fuses, relays, circuit breakers.
- Management level Visual Inspection committee which quarterly carries out Hazardous Installation Inspection at these places.
- Various internal and external safety audits, Plant Safety committee, House keeping committees formed which conduct their audits regarding OS & H and demand time bund compliance.

- Hazardous areas already barricaded and separated from other operating units by proper separation distances. In such area, all equipment's used are flameproof and intrinsically safe.
- Plant Safety Inspections
- Hazard communication by the means of Safety Bulletin, Safety Posters, Caution boards.
- Chemicals are stored at isolated storage facility and labelling also done for identification of the container/chemicals.
- On-site emergency plan
- Mock drills
- Various PPES, Fire extinguishers, safety showers, First aid boxes (filled) & on line air masks, Gas masks etc are provided at various Hazardous installations.

Well equipped- Safety Exhibition for visitors and trainees

- There is a well equipped safety exhibition at F&S building. Different types of fire and safety equipment's have been displayed to make the people aware about available equipment's, facilities and their use.



Safety of Visitors

1. IFFCO Kalol has established online system for visitors evaluation on HSE aspects before issuing them the gate pass.
2. We have made a safety film for visitors. The film is shown to all the visitors at Security building and then the visitors are asked to undergo an online safety quiz based on the contents displayed in safety film.
3. After successful completion on quiz gate pass is issued to visitors for entry inside plant premises.



II. Fire Protection Measures

- Full Fledged Fire & Safety department with professionally qualified, experienced & skilled staff.
- Under Ground fire Hydrant system all over the plant as well as water and foam monitor system in crucial areas.
- Installation of DCS for effective F&S Control Room operation.
- Fire extinguishers of different types provided all over the plant areas and buildings at strategic locations.
- Fire Hydrant & Riser system with Hose boxes – for empty bag storage areas.
- FM-200 Local application system for the protection of Server room.
- Modular type Halotron fire extinguishers & NOVAC Based Automatic Fire Suppression system & Smoke detection system has been installed at Plant telephone exchange.
- NOVAC Based Automatic Fire Suppression system & Smoke detection system has been installed at Server room of IT Services.
- Analog addressable fire detection system at various plant control rooms, Electrical MCC's and buildings.
- Manual call points at strategic locations all over the plant premises.
- Various Fire & Safety Appliances like Foam Tenders, Fire Jeep, Water Jet Monitors, Foam Monitors, Fire Pumps (Elect.) Fire Pumps (Diesel), Jockey Pumps and Air Compressors.
- Remotely operated sprinkler system for Ammonia loading pumps, Ammonia loading gantry (rail & road) at storage area, ammonia & carbamet pumps in Urea plant.
- Water curtain system along the stairs of Urea prill tower.
- Clean agent fire extinguishers for office building areas.
- State of art beam detection system has been installed at Urea empty bag Storage area in Bagging Plant.

Photographs showing some of Fire fighting and detection equipment's are as under:

FIRE HYDRANTS AND MONITORS



PORTABLE MONITOR:



FIRE EXTINGUISHERS



FIRE VEHICLES: Three Nos.

Sr. No	Tender	Capacity		Pump Capacity (LPM)	Registration No.
		Water (Litre)	Foam (Litre)		
1	Foam Tender	3500	500	2250	GJ -18 -AX- 6736
2	Foam Tender	2500	500	1800	GJ- 18 - U – 8656
3	Fire Jeep	-	-	-	GJ -18 – AX – 1375



FIRE/EMERGENCY COMMUNICATION SYSTEM:

- Fire Alarm Panel Boxes (Manual Call Point): 47 Nos.



- Smoke Detectors: Ammonia Control Room, Urea Control Room, Storage Control Room, Boiler Control Room, Empty Bag Storage room in B&MH Plant, Elect. MPSS, IT Services, Technical Building, Personal & Administration Building, Maintenance building, Inst. & Civil building, Training Centre, Laboratory, Cooling Tower CR, IG Plant CR, DM Plant CR and all elect. MCC. System.



- Wireless smoke detection and fire alarm system has been installed at Narmada Water Treatment Plant.



- ↗ Public Announcing System
- ↗ Walky Talky System
- ↗ Internal Telephones (2222 Nos. Only receiving Mode, 2635 Fire Control Room Incharge)
- ↗ Coded Siren with 05 Km range.

NOVAC Based Automatic Fire Suppression system & FM 200 flooding system has been installed at Plant telephone exchange.



III. Safety Training

IFFCO Kalol unit is having a DISH (Directorate of Industrial Safety & Healthy) approved training center.

Following training programs are conducted for the Employees, contract workmen, GETs, apprentice trainees, IFFCO Trainees and Vocational trainee

- **Induction training:** For newly joined IFFCO employee, GETs, apprentice trainees, IFFCO Trainees and Vocational trainee
- **Induction training:** For contract workmen by F&S Department.
- **Job specific training:** Toolbox talk related to specific job like welding, cutting, grinding, vessel entry, work at height, excavation, handling hazardous chemicals etc.
- **Refresher training:** In the month of January for employees as well as contract employees, GETs, apprentice trainees, IFFCO Trainees and Vocational trainee.
- **Community awareness:** To nearby villagers, school students at regular interval
- Employees are sponsored for SHE training programs at various reputed institutions.
- Regular drills and training are conducted for F&S staff at Fire station.

IFFCO Kalol have won more than 45 Awards since 1977 from State, National and International for Safety. Also, many in-house training programmes for Environment and safety are being conducted by IFFCO.



Figure 1: Occupational Health & Safety of IFFCO at Corporate Level







Quality, Environmental, Health & Safety (QEHS) Policy

IFFCO Kalol is committed to achieve satisfaction of its Cooperative societies, farming community, internal and external consumers and stake holders through eco-conscious manufacturing and supplying of quality products. Our commitment is for:

- Creation of sustainable eco- friendly, safe and healthy work environment.
- Compliance of applicable legislative and other statutory requirements.
- Development of human resources.
- Continual improvement through (1) optimization and conservation of natural resources used (2) endeavour for Environment protection and prevention of pollution.
- Creating awareness amongst contract workmen on relevant QEHS aspects and ensuring good safety practices at their work.
- Taking appropriate measures to minimize and prevent health and safety risks.
- Effective and efficient use of conventional and non conventional energy sources.
- Ensuring effective communication within the organisation and among interested parties.

3.1.2017

[Signature]
Chief Executive Officer
IFFCO-Kalol Unit.












Figure 2: IMS Policy of IFFCO Kalol at Plant level

ANNEXURE XIV
DETAILS OF RAINWATER SYSTEM

RAINWATER HARVESTING AT IFFCO – KALOL

Rain water harvesting at Township – Kasturinagar

(Artificial recharge project by West Central Region(WCR), Central Ground Water Board

In collaboration with West Central Region, Central Ground Water Board(CGWB), water recharging well of 600 m³ capacity was installed and commissioned on 15th August 2001 for rain water harvesting at the cost of Rs 6.85 lakhs. Almost total rainwater of Kasturinagar Township is collected in 700 m³ capacity sumps and water is percolated in the soil through two tube wells provided.



Rain Water Harvesting system (Old)
(36 m³/hr capacity)



Rain Water Harvesting system (New)
(25 m³/hr capacity)

Apart from above, “Rain water harvesting modules” of Approx. 25 m³ capacity was installed at its township for harvesting the rain water. This is a “Precast modular step well” type (Primary+ Secondary) of system which operate on gravity and does not require electricity.

Primary module is for primary filtration of surface water. The water enters into the module horizontally from the surface. Top module is provided with gravel which restrict physical particles like vegetation and plastic entering the module and lower module acts as sedimentation/ settling tank.

Secondary unit have V-Wire screens of SS and a sand bed and gravels which control physical particles and natural environment impurities. The clean & pure rainwater is diverted to bore well of existing rain water harvesting system through cast iron pipe.

The system was commissioned on 15th August - 2014. Cost of implementation of the scheme was Rs. 1.6 Lakhs.

(I) Rain water harvesting at plant area

“Rain water harvesting modules” of Approx. 25 m³ capacity has been installed near Union Office at Plant site. This is a “Precast modular step well with bore well” with natural filters.

It consists of single module with internal volume of approximately 0.8 cubic meter that is to be fixed below ground level. The module is of an octagonal shape with a diameter of approximately 1000 mm below ground level and 918 mm above ground level.

The inlet and outlet of the system is 110 diameter UPVC pipes. The entire system contains approximately 0.06 cubic meter gravels of 40 mm size. Drilling depth as per geo logical condition is 60 ft.

The system was commissioned on 15th August - 2014. Cost of implementation of scheme was Rs. 2.2 Lakhs.



Module at Union office, IFFCO Kalol Plant

(II) Rain water harvesting with Bore well (02 Nos) installed at Township (Furaat Modular Model - PMW-92CFM-P1, Cement concrete system with SS 304 screen with Natural Filters)

It consists of single module with internal volume of approximately 0.8 cubic metre that is fixed below ground level. The module is of an octagonal shape with a diameter of approximately 1000 mm below ground level and 918 mm above ground level and below the planters and the top of the planter is approximately 1240 mm diameter.

It has a total of 16 pillars of 105 mm dia x 330 mm height fixed in circular arrangement with a gap of 30 mm between each two pillars making a total horizontal inlet area of 1584 cubic centimeter. The area within the pillars, above ground level and below the planter holds the gravels of 40 mm and acts as a filter.

Total height of the system is 2178 mm alongwith four planters of 570 x 570 x 186 having volume of approximately 0.025 cubic meter of each planter.



Module installed near Sr. GM Bungalow



Module installed near Nehru Circle

The height of the unit below the ground level is approximately 1602 mm and the system height above ground level but without lanterns is 390 mm. The height of the system above ground level with planters is approximately 576 mm.

There is a PVC sand filter of 315 dia x 1494 height in the unit below ground level. It also comprises of SS screen of 304 grade with filter area of 735 sq cm. and can hold 0.04 cubic meter of filtration sand.

The inlet and outlet of the system is 110 diameter UPVC Heavy Grade Pipes. The entire system contains proximately 0.06 cubic meter gravels of 40 mm size. Depth is 60 ft.

Both the system were commissioned on 17th March 2017. Cost of implementation of the scheme was Rs. 6.29 Lakhs.

ANNEXURE XV A & B
EPR REGISTRATION



Regn. No.
BO-27-000-06-AAAAI0050M-22

Date:
28/06/2022 04:30 PM

RENEWAL OF REGISTRATION CERTIFICATE FOR BRAND OWNER
(Under Rule-13(2) of the Plastic Waste Management Rules, 2016, as amended)

To,
**INDIAN FARMERS
FERTILISER
COOPERATIVE
LIMITED (IFFCO),**
IFFCO SADAN, C-1,
DISTRICT CENTRE,
SAKET PLACE

With reference to the application dated **27/05/2022** regarding registration as a **Brand Owner**, this is to inform that your application has been processed and found in order. Now, therefore, Central Pollution Control Board Board is pleased to grant the registration in favour of **INDIAN FARMERS FERTILISER COOPERATIVE LIMITED (IFFCO)**, vide registered office address **IFFCO SADAN, C-1, DISTRICT CENTRE, SAKET PLACE**, as a Brand Owner, for disposal of MLP & other plastic waste generated due to their products as per the EPR Action Plan given below:

Sl. No	Financial Year	2022-23			
	State/UT	Cat-I	Cat-II	Cat-III	Cat-IV
1	CPCB	485.45	23526.65	0.00	0.00
TOTAL		485.45	23526.65	0.00	0.00
Grand Total		24012.1 TPA			

This certificate of registration shall be valid for a period of **Three years** from the expiry date of previous registration i.e. 26/05/2022 unless revoked, suspended or cancelled. The Registration is granted subject to the following terms & conditions: -

1. The Brand Owner shall fulfil the categorize EPR Targets for the year 2022-23 as specified in the above table. For the subsequent years, EPR Target shall be calculated based on the information provided in the Annual report, the format of which shall be specified by CPCB.
2. The Brand Owner shall provide certificate only from registered plastic waste processors as evidence of fulfilling their EPR obligation. The PIBO can meet the EPR obligation under a category by providing EPR certificates from other PIBOs of the same category.
3. Exchange of EPR credit between PIBOs and Plastic Waste Processors (PWP) to be done as per mechanism provided by CPCB.
4. The Brand Owner shall not deal with any entity not registered through on-line centralized portal developed by Central Pollution Control Board. .
5. The Brand Owner shall not engage in manufacture, stocking, distribution, selling of banned SUP items as listed in Amendment to PWM Rules dated August 12, 2021
6. In case, it is found or determined that any PIBO registered on the on-line portal has provided false information or has willfully concealed information or there is any irregularity or deviation from the conditions stipulated while obtaining registration under Extended Producer Responsibility guidelines, then the registration of such an entity would be revoked for a one - year period after giving an opportunity to be heard. The entities whose registration has been revoked shall not be able to register afresh for the period of revocation.
7. The Brand Owner should ensure compliance with provisions of the PWM Rules, 2016, as amended. Action, as deemed fit, including revocation of registration, closure of unit, levying Environmental Compensation charges, shall be taken against violators of PWM Rules.
8. CPCB reserves the right to take such action as deemed fit under Environment (Protection) Act, 1986 for violation of PWM Rules, 2016, as amended, if any, by the concerned PIBO for the period prior to grant of registration.

Div. Head, UPC-II



Gujarat Pollution Control Board

Paryavaran Bhawan, Sector 10-A, Gandhi

Nagar- 382010, Gujarat

Regn. No .

PR-02-GUJ-01-AAAAI0050M-23

Date:

02-01-2023 12:24 PM

REGISTRATION CERTIFICATE FOR PRODUCER

(Under Rule-13(2) of the Plastic Waste Management Rules, 2016, as amended)

To,
**INDIAN FERMARS
FERTILISER COOPERATIVE
LIMITED(Legal Name)
(Trade Name: IFFCO),
IFFCO SADAN, C-1, DISTRICT
CENTRE, SAKET PLACE, NEW
DELHI**

With reference to the application dated **28-11-2022** regarding registration as a **Producer**, this is to inform that your application has been processed and found in order. Now, therefore, Gujarat Pollution Control Board is pleased to grant the registration in favour of **INDIAN FERMARS FERTILISER COOPERATIVE LIMITED**, vide registered office address **IFFCO SADAN, C-1, DISTRICT CENTRE, SAKET PLACE, NEW DELHI**, as a Producer, for disposal of MLP & other plastic waste generated due to their products as per the EPR Action Plan given below:

Sl. No	Financial Year	2022-23			
	State/UT	Cat-I	Cat-II	Cat-III	Cat-IV
1	GUJARAT	0	0.0	0.0	0.0
TOTAL		0	0.0	0.0	0.0
Grand Total		0.0			

This certificate of registration shall be valid for a period of **One Year** from the date of issue of the letter unless revoked, suspended or cancelled. The Registration is granted subject to the following terms & conditions: -

1. The Producer shall fulfil the categorize EPR Targets for the year 2022-23 as specified in the above table. For the subsequent years, EPR Target shall be

calculated based on the information provided in the Annual report, the format of which shall be specified by CPCB.

2. The Producer shall provide certificate only from registered plastic waste processors as evidence of fulfilling their EPR obligation. The PIBO can meet the EPR obligation under a category by providing EPR certificates from other PIBOs of the same category.
3. Exchange of EPR credit between PIBOs and Plastic Waste Processors (PWP) to be done as per mechanism provided by CPCB.
4. The Producer shall file annual return of fulfilling of EPR obligation as per targets given above in the proforma prescribed by CPCB by June 30 of the next financial year. The information related to fulfillment of EPR obligations and annual report to be filed on the centralized EPR portal developed by CPCB for the purpose.
5. Every Producer shall maintain a record of details of the person engaged in supply of plastic used as raw material to manufacture carry bags or plastic sheet or like or cover made of plastic sheet or multi-layered packaging.
6. The Producer shall pay Annual fee for processing of Returns as per Guidelines by CPCB.
7. The Environment Compensation, as applicable, shall be levied by CPCB/SPCB/PCC on PIBO the with respect to non-fulfillment of their Extended Producer Responsibility targets, responsibilities and obligations as per Guidelines specified by CPCB.
8. An application for the renewal of a Registration shall be made at 90 days prior to expire of validity, along with the necessary information & documents as per the Guidelines issued by the MoEF&CC and CPCB from time to time
9. The Producer shall not deal with any entity not registered through on-line centralized portal developed by Central Pollution Control Board.
10. The Producer shall not engage in manufacture, stocking, distribution, selling of banned SUP items as listed in Amendment to PWM Rules dated August 12, 2021.

-
11. In case, it is found or determined that any PIBO registered on the on-line portal has provided false information or has willfully concealed information or there is any irregularity or deviation from the conditions stipulated while obtaining registration under Extended Producer Responsibility guidelines, then the registration of such an entity would be revoked for a one - year period after giving an opportunity to be heard. The entities whose registration has been revoked shall not be able to register afresh for the period of revocation.
 12. The Producer should ensure compliance with provisions of the PWM Rules, 2016, as amended. Action, as deemed fit, including revocation of registration, closure of unit, levying Environmental Compensation charges, shall be taken against violators of PWM Rules.
 13. Gujarat Pollution Control Board reserves the right to take such action as deemed fit under Environment (Protection) Act, 1986 for violation of PWM Rules, 2016, as amended, if any, by the concerned PIBO for the period prior to grant of registration.
 14. Type of plastic and recycled content for different components of commodity to be included in the label on the commodity

Terms and Conditions :- AS Per PWM Rules-2016

Member Secretary

ANNEXURE XVI
MEASURES IMPLEMENTED FOR ENERGY
CONSERVATIONS

Annexure – XVI

Measures Implemented for Energy Conservation during last 03 Years:

Sr. No.	Energy conservation steps implemented during the Year 2020-21	Expenditure incurred Rs. Lakhs	Saving in Natural resources (NG, Naphtha, FO, water etc.)	
			kW/day	Rs. lakhs Per Year
	IFFCO Plant			
1	Replacement of 20 nos. of conventional street light of 70 W with hybrid solar light fitting of 35 W.	0.60	11.2	0.35
2	Replacement of 50 nos. conventional 2X36W light fittings with 34W LED light fittings in buildings.	1.6	20	0.62
3	Replacement of 100 nos. conventional 36W light fittings with 15W LED light fittings in buildings.	0.60	11	0.34
4	Replacement of 150 nos. conventional 500W flood light fittings with 35W LED light fittings in shutdown for temporary lighting provision (one time saving in every ATA)	0.93	279	0.47
	Total	3.73		1.78
	Township			
1	Replacement of 06 nos. conventional 400W flood light with 150W LED flood light in high mast tower	0.54	12	0.37
2	Replacement of 100 nos. 70W Ceiling fan with 53W energy efficient fan at township quarter.	1.5	12	0.37
3	Replacement of 100 nos. 35W Ceiling fan with 9W energy efficient fan at township quarter.	0.085	31.2	0.97
	Total	2.125		1.71

Sr. No.	Energy conservation steps implemented during the Year 2021 - 22	Expenditure incurred Rs. Lakhs	Saving in Natural resources (NG, Naphtha, FO, water etc.)	
			kW/day	Rs./day
	IFFCO Plant			
1	Replacement of conventional street light fitting of 70 W with hybrid solar light fitting of 35 W at street light	0.6	11.2	95
2	Replacement of conventional 2X36W light fittings with 34W LED light fittings in buildings	1.6	20	170
3	Replacement of conventional 36W light fittings with 15W LED light fittings in buildings	0.6	5.5	47
	Total	2.8		312
	Township			
1	Replacement of conventional 400W flood light with 150W LED flood light in high mast tower	0.54	12	102
2	Replacement of 70W Ceiling fan with 53W energy efficient fan at township quarter	0.75	6	51
3	Replacement of 15W light fittings with 9W energy efficient LED light fittings at township quarter	0.085	16	139
	Total	1.375		292

Implemented during 2022 - 23

Plant:

- Replacement of conventional light fittings with LED luminaries in purchase & F & A section.

Township:

- Replacement of sign boards with latest LED sign boards in township to save energy. Control of LED sign boards with digital timer for limited time during 19:00 Hrs to 22:30 Hrs for energy saving with saving detailed below:

Power saving = 150W + 20W

Energy saving per day = 170x7=1190Whr

Annual energy saving = 1190 x365 = 434350Whr = 434.35 units

Rate per unit = Rs 8.5

So annual monetary saving per fitting = 8.5 x 434.35 = Rs 3691.975

Total 24 nos of LED fittings in high mast towers & 4 numbers of LED sign boards are switched OFF for whole night by using digital timer.

- Replacement of conventional ceiling/exhaust fans with energy efficient fans in quarters and public buildings.



ANNEXURE XVII
NABL TEST REPORTS

Details of Noise Control Measures

IFFCO Kalol has various machines like dryers, blowers, vacuum pumps, process pumps, turbines, compressors etc. along with DG sets, Boiler, which generates noise. These machines are already inbuilt with appropriate control measures to maintain the noise levels within limits.

Generally, noise level of working place is within the limit as specified in the standard of MoEF&CC. However, Kalol unit have issued earmuffs/ plugs to all concerned employees for usage while working in noisy environment. The equipment like Compressors, blowers, fans, various drums and elevators are provided with Acoustic pad insulation / Acoustic enclosures to limit the noise level as per the standard of MoEF&CC. Noise level at Boundary Fence are controlled by providing green belt throughout the boundary wall of plant. Wherever required vent silencers are installed to reduce noise level in the plant. Details of Noise Control Devices is given below:

Noise Control Devices

Plant	Noise Control Devices	Method of control
Noise Abatement in Plant Area	Vent Silencers, Insulations and tree plantation / inside & outside the plant	<ul style="list-style-type: none"> Silencers have been provided at vent stacks to reduce the noise level. Also, to reduce noise level in compressor area, the gas lines are insulated. Green belt in the plant and all around the plant boundary also contribute positively in minimizing the impact on noise level. Diesel Generation set is operated once in a week for trail purpose. Acoustic enclosure has been provided in the Diesel Generator Room. Issued ear muffs / plugs to all the employees and usage of ear muffs / plugs while working in noisy environment is already in practice.
		
Vent Silencer in Ammonia Plant		Vent Silencer in BHEL Boiler
Photographs of Noise Control System		



Report ID: AWH/R/23-24/526


Date: 20/09/2023

TEST REPORT

Name & Address of Unit	:	M/s. Indian Farmers Fertilizer Co. Ltd. 712/846,866,856 of Saij, 17-37 of Dhanej, P.O. Kasturi Nagar, Tal.: Kalol-382423, Dist.: Gandhinagar.		
Sampling Date	:	15-09-2023	Sampling Type	: Noise – Ambient Noise
Sample Receipt Date	:	15-09-2023	Inward ID	: AWH/23-24/526
Sample Collected / Submitted by	:	AWH Team	Sampling Method	: IS 9989 – 1981 (RA 2014)

Analysis Results

Sr. No.	Sampling Location	Result	Unit	GPCB Permissible limit
1	Nr. R&D Lab.	62.1	dB(A) Day	75
2	Nr. System	58.6	dB(A) Day	75
3	Nr. Training Building	67.8	dB(A) Day	75
4	Nr. Time Office	64.3	dB(A) Day	75
5	Nr. Boiler Control Room	64.9	dB(A) Day	75
6	Nr. Urea Control Room	67.0	dB(A) Day	75
7	Nr. Ammonia Control Room	72.6	dB(A) Day	75
8	Nr. Railway Office	64.6	dB(A) Day	75
9	Nr. Fire & Safety	61.3	dB(A) Day	75
10	Nr. Central Lab.	70.7	dB(A) Day	75
11	Nr. Instrument	60.3	dB(A) Day	75
12	Nr. Technical Building	66.9	dB(A) Day	75
13	Nr. Store	68.2	dB(A) Day	75
14	Nr. Dispensary	57.3	dB(A) Day	75
15	Nr. B & MH Control Room	69.1	dB(A) Day	75
16	Nr. Ammonia Maintenance	60.8	dB(A) Day	75
17	Nr. Railway Gate No. 2	54.0	dB(A) Day	75


Sumit Patel (CEO)/ Ashka Patel (QM)
Authorized Signatory

End of Test Report**Note**

1. BDL: Below Detectable Limit.
2. The results listed herewith is applicable for the tested item only.
3. This report shall not be reproduced part or in full without written permission of the AWH LABORATORY.
4. Sample is to be disposed after 10 days from the date of issue of the report unless agreed with the customer.
5. In case when laboratory is not involved in Sampling, the results apply to the sample as received.



Report ID: AWH/R/23-24/527

Date: 20/09/2023

TEST REPORT

Name & Address of Unit	:	M/s. Indian Farmers Fertilizer Co. Ltd. 712/846,866,856 of Saij, 17-37 of Dhanej, P.O. Kasturi Nagar, Tal.: Kalol-382423, Dist.: Gandhinagar.			
Sampling Date	:	15-09-2023	Sampling Type	:	Ambient Air
Sample Receipt Date	:	16-09-2023	Inward ID	:	AWH/23-24/527
Sample Collected / Submitted by	:	AWH Team	Sampling Method	:	IS 5182 (Part 14)
Sampling Location	:	On Terrace Of R&D building	Packing / Seal	:	Zip lock Bag/ Plastic Bottle
Sample Type	:	Ambient Air	Analysis Start Date	:	16-09-2023
Sample Description	:	Near R&D Laboratory			
Quantity / No. of Sample	:	2 Filter Papers & Absorbing Media	Analysis Completion Date	:	19-09-2023

Analysis Results

Sr. No.	Parameter	Unit	Result	GPCB Permissible limit	Test Method
1	Particulate matter (PM ₁₀)	µg/m ³	48.33	100	IS 5182 (Part 23): 2006
2	Particulate matter (PM _{2.5})	µg/m ³	35.08	60	IS 5182 (Part 24): 2019
3	Sulphur Dioxide (SO ₂)	µg/m ³	4.12	80	IS 5182 (Part 02): 2001
4	Oxides of Nitrogen (NO ₂)	µg/m ³	17.56	80	IS 5182 (Part 06): 2006
5	Ammonia	mg/Nm ³	27.69	400	IS 5182 (Part 25): 2018

Sumit Patel (CEO)/ Ashka Patel (QM)
Authorized Signatory**End of Test Report****Note**

1. BDL: Below Detectable Limit.
2. The results listed herewith is applicable for the tested item only.
3. This report shall not be reproduced part or in full without written permission of the AWH LABORATORY.
4. Sample is to be disposed after 10 days from the date of issue of the report unless agreed with the customer.
5. In case when laboratory is not involved in Sampling, the results apply to the sample as received.



Report ID: AWH/R/23-24/528

Date: 20/09/2023

TEST REPORT

Name & Address of Unit	:	M/s. Indian Farmers Fertilizer Co. Ltd. 712/846,866,856 of Saij, 17-37 of Dhanej, P.O. Kasturi Nagar, Tal.: Kalol-382423, Dist.: Gandhinagar.		
Sampling Date	:	15-09-2023	Sampling Type	: Ambient Air
Sample Receipt Date	:	16-09-2023	Inward ID	: AWH/23-24/528
Sample Collected / Submitted by	:	AWH Team	Sampling Method	: IS 5182 (Part 14)
Sampling Location	:	Near Cooling Tower	Packing / Seal	: Zip lock Bag/ Plastic Bottle
Sample Type	:	Ambient Air	Analysis Start Date	: 16-09-2023
Sample Description	:	Near Cooling Tower		
Quantity / No. of Sample	:	2 Filter Papers & Absorbing Media	Analysis Completion Date	: 19-09-2023

Analysis Results

Sr. No.	Parameter	Unit	Result	GPCB Permissible limit	Test Method
1	Particulate matter (PM ₁₀)	µg/m ³	53.64	100	IS 5182 (Part 23) 2006
2	Particulate matter (PM _{2.5})	µg/m ³	37.2	60	IS 5182 (Part 24) 2019
3	Sulphur Dioxide (SO ₂)	µg/m ³	1.98	80	IS 5182 (Part 02) 2001
4	Oxides of Nitrogen (NO ₂)	µg/m ³	13.60	80	IS 5182 (Part 06) 2006
5	Ammonia	mg/Nm ³	17.16	400	IS 5182 (Part 25) 2018

Sumit Patel (CEO)/ Ashka Patel (QM)
Authorized Signatory**End of Test Report****Note**

1. BDL: Below Detectable Limit.
2. The results listed herewith is applicable for the tested item only.
3. This report shall not be reproduced part or in full without written permission of the AWH LABORATORY.
4. Sample is to be disposed after 10 days from the date of issue of the report unless agreed with the customer.
5. In case when laboratory is not involved in Sampling, the results apply to the sample as received.



Report ID: AWH/R/23-24/529

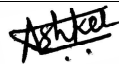
Date: 20/09/2023

TEST REPORT

Name & Address of Unit	:	M/s. Indian Farmers Fertilizer Co. Ltd. 712/846,866,856 of Saij, 17-37 of Dhanej, P.O. Kasturi Nagar, Tal.: Kalol-382423, Dist.: Gandhinagar.			
Sampling Date	:	15-09-2023	Sampling Type	:	Ambient Air
Sample Receipt Date	:	16-09-2023	Inward ID	:	AWH/23-24/529
Sample Collected / Submitted by	:	AWH Team	Sampling Method	:	IS 5182 (Part 14)
Sampling Location	:	Near Training Center	Packing / Seal	:	Zip lock Bag/ Plastic Bottle
Sample Type	:	Ambient Air	Analysis Start Date	:	16-09-2023
Sample Description	:	Near Training Room			
Quantity / No. of Sample	:	2 Filter Papers & Absorbing Media	Analysis Completion Date	:	19-09-2023

Analysis Results

Sr. No.	Parameter	Unit	Result	GPCB Permissible limit	Test Method
1	Particulate matter (PM ₁₀)	µg/m ³	52.03	100	IS 5182 (Part 23) 2006
2	Particulate matter (PM _{2.5})	µg/m ³	34.15	60	IS 5182 (Part - 24):2019
3	Sulphur Dioxide (SO ₂)	µg/m ³	2.01	80	IS 5182 (Part 02) 2001
4	Oxides of Nitrogen (NO ₂)	µg/m ³	21.36	80	IS 5182 (Part 06) 2006
5	Ammonia	mg/Nm ³	35.57	400	IS 5182 (Part 25) 2018


Sumit Patel (CEO)/ Ashka Patel (QM)
Authorized Signatory**End of Test Report****Note**

1. BDL: Below Detectable Limit.
2. The results listed herewith is applicable for the tested item only.
3. This report shall not be reproduced part or in full without written permission of the AWH LABORATORY.
4. Sample is to be disposed after 10 days from the date of issue of the report unless agreed with the customer.
5. In case when laboratory is not involved in Sampling, the results apply to the sample as received.

ANNEXURE XVIII
DETAILS OF CER EXPENDITURE

ECO - DEVELOPMENTAL MEASURES

1. Social Economic Development:

IFFCO Kalol is committed to contribute for the sustainable economic development of farmers, local community and Society at large to improve their quality of life. IFFCO Society has under taken various activities in the areas for community development, environment protection, horticulture, health care/ medical facilities and literacy enhancement / empowerment programmes. To bridge the gap between farming community & industry and for development of surrounding villages, IFFCO Kalol Unit has carried out development activities in surrounding villages like organizing Eye Camps& Blood Donation Camp, providing Drinking water system, various facilities in schools, construction of Dhobi Ghats etc., construction of Toilets in schools & villages, construction of cattle-sheds, providing practical training to farmers to improve their skills in crop & animal husbandry, organizing veterinary camps, farm mechanization, balance fertilization, use & distribution of bio-fertilizers, training for tailoring & embroidery, adult education programmes, fruits and vegetables preservation, etc. CSR activities are undertaken by IFFCO in two segments i.e., unit level and corporate level. Activities undertaken at Unit level as a part of IRDP / CSR in nearby area during last three and half years are mentioned below in Table 1.1

S. No.	Short Description, Village and Taluka	Cost Rs. Lakh
Expenditure during the year 2022 – 23		
1	Paver block provided at Sanskar Tirth, Village - Ajol, Dist: Gandhinagar	2.0
2	Shed provided at Cremation Ground of Dhanaj Gram Panchayat, Village - Dhanaj, Tal.- Kalol, Dist: Gandhinagar	2.0
3	RCC road constructed at Shertha Gram Panchayat Village - Shertha, Dist: Gandhinagar	2.0
4	Drinking Water Facility provided at Shri B H Patel High School, Village - Mathasur, Taluka – Kadi, Dist: Mehsana	2.0
5	Paver block provided at Smt J M G High School, Village - Shertha, Dist: Gandhinagar	2.0
6	Paver block provided at Adalaj Gram Panchyat premises Village Adalaj, Dist: Gandhinagar	1.8
7	Wire fencing provided at compound wall of Usamabad Prathamik Sala, Kalol, Dist: Gandhinagar	1.6
8	Scientific apparatus provided at Swami Vivekananda Education Trust, Kadi, Dist: Mehsana	1.0
9	Wire frame provided for protection of sapling planted nearby saig village by Saij Gram Panchayat Village: Saij, Taluka - Kalol, Dist: Gandhinagar	1.0
10	Electrical poles installed roadside of Bhoyan village Dist: Gandhinagar	2.0
11	Electrical poles installed roadside of Dantali village Dist: Gandhinagar	2.0

S. No.	Short Description, Village and Taluka	Cost Rs. Lakh
12	Benches for class room of Moti Adraj Kanya Prathmik shala Dist: Gandhinagar	1.25
13	RCC road constructed at Saij Gram Panchayat Village - Saij, Dist: Gandhinagar	2.0
14	Stabilizer for Operation Theater of Health care center of Gram Vikas mandal Village: Paliyad Dist: Gandhinagar	2.0
15	4 Toilet block Repairing work done of Prathmik Shala -Kalol	2.0
16	Baby care unit provided to Primary health centre Village : Uvarsad Dist: Gandhinagar	0.38
17	4 Nos of ceiling fans provided at SANSKAR TIRTH Village: Ajol, Dist: Gandhinagar 4 Nos of ceiling fans provided at Kalol Police Station, Kalol, Dist: Gandhinagar 3 nos of Computers were given to Child Welfare School, Dist: Gandhinagar 2 nos of Computers were given to Himmatpura Veda Prathamik Shala, Kalol, Dist: Gandhinagar 2 nos of Computers were given to Mithivadadhi Prathamik Shala, Patan 4 nos of Computers were given to Amrit Vidhya School, Kalol, Dist: Gandhinagar 2 nos of Computers were given to Rajmatat Higher Secondary School, Mansa, Dist: Gandhinagar 2 nos of Computers were given to Maruti Charitabale Trust, Dist: Gandhinagar	Free of Cost
	Total Amount	27

S. No.	Short Description, Village and Taluka	Cost Rs. Lakh
Expenditure during the year 2021 - 22		
1	Water cooler with RO unit provided at Police Station, Village – Adalaj	0.32
2	Shed for cows & injured animals provided at Bhatia Foundation Trust	2.0
3	High mask electrical Tower provided at Gram Panchyat Village - Dhanaj	2.0
4	Paver block provided at school premises Vasudev Grant in aid Residential Primary School Kalol, Gandhinagar	1.18
5	Shade provided and compound wall constructed at PHC, Gram Aarogay Kendra, Village – Dantali	2.0
6	Compound wall constructed at cremation area of Pratappura Gram Panchyat Tal.- Kalol, Dist. – Gandhinagar	2.0
7	Paver block provided at Ambapur Prathamik Shala, Village – Ambapur, Dist. - Gandhinagar	2.0
8	Santitation work carried out in Shri Bhoyanarathor Prathamik Shala toilet blocks, Village – Bhoyanarathor, Dist. - Gandhinagar	2.0
9	Two nos. of solar LED lamps provided at Tintoda Gram Panchyat Village – Tintoda, Dist. – Gandhinagar.	0.5
10	Paver block provided at Shertha Gram Panchyat Village – Shertha, Dist. – Gandhinagar.	2.0
11	RCC road constructed at Saij Gram Panchyat, Village –Saij, Dist. – Gandhinagar.	2.0
12	Playing apparatus provided for children of Child Welfare Grah, at Government Children Home, Sector 17, Gandhinagar.	2.0
13	Medical apparatus procured for General Hospital of Gram Vikash Mandal sanchalit Trust, Village – Paliyad, Dist. – Gandhinagar	2.0
14	Paver block provided at Sadvichar Parivar Viklang Punervas Kendra, Village – Uvarsad, Dist. – Gandhinagar	2.0
15	5 nos of Computers were given to Gopal nagar primary School, Kalol, Dist. – Gandhinagar	
	1 no of computer was given to Gyanmandir Higher secondary school, Patan	
	6 nos of computers were given to CORDET, Kalol for training to local community	
	1 no of computer was given for projector of Prathmik shala No. 08, Kalol, Dist. – Gandhinagar	
	4 nos of Computers were given to Adarsh Primary School, Mansa, Dist. – Gandhinagar	
	2 nos of Computers were given to Shree Parbatpura Sarvajanic Pustakalay, Mansa, Dist. – Gandhinagar	
	4 nos of computers were given to Mamlatdar Office, Kalol	
	Total Amount	24

S. No.	Short Description, Village and Taluka	Cost Rs. Lakh
Expenditure during the year 2020-21		
1	Shed at Police Station Uvarsad	2.0
2	LED Street Light provided at Dhanaj Village	1.0
3	LED Lights and Poll at Adalaj Police Station	2.0
4	Motor, Pump Set & Cable work at Saij Village	2.0
5	Room construction work at Shri Sharda Vidhyapith, Dwarka	2.0
6	Repairing work of Prayer Hall at Tintoda Village School	2.0
7	Tailoring class at CORDET, IFFCO Kalol	0.74
8	Construction work at Sadvichar parivar, Uvarsad	2.0
9	Construction of shed at school, Bhoyan rathod Village	2.0
10	Construction of shed at school, Dhanaj Village	1.0
11	12 Nos computers given to Ambapur Primary school	Free
	Total Amount	16.74
Expenditure during the year 2019-20		
1	LED Lights -Shertha Village	2
2	Parking Area -St. Xavier School Kalol	2
3	Shed to the School- Veda Primary School Ahmedabad	2
4	R C C work in Shmashaan Gruh , Kakanu Tarapur	2
5	Electric pole/fittings/cabling work- Adalaj Police station	1.71
6	Electrification work/ pole light /GEB connection- Shertha village	1.26
7	Paver block in shmashaan gruh- Ambapur village	2
8	Wall of school & varanda- Shertha para	2
9	Wall & room at shmashaan gruh- Jamiyatpura	2
10	For training at CORDET	0.67
11	R C C Road at Saij village, Saij Gram Panchayat	2
12	6 computers given to Randheja kelavani mandal	Free
	2 computers given to Mansa General Hospital	
	10 computers given to Shri Shertha kelvani mandal	
	7 computers given to Smt S A B Patel Panchshil Vidyalay	
	Total Amount	19.64

Table 1.1: Social Infrastructure facilities provided by IFFCO in nearby villages

2. Cooperative Rural Development Trust (CORDET)

IFFCO has established CORDET – Co Operative Rural Development Trust under Indian Trust Act. Cooperative Rural Development Trust namely CORDET is a charitable trust registered under Indian Trust Act since 1978 (9th October, 1978) to provide education and training to farmers. The CORDET units are set up at Phulphur, Kalol and Kandla locations. CORDET is instrumental in demonstrating various farming system models to increase the farm income by organizing various trainings and skill development programs for youth and women. It has demonstrated crop production system, dairy, balanced fertilization, use of bio-fertilisers, bee-keeping, pisciculture, computer use, screen printing, welding, tailoring and embroidery also distributed Sewing Machine every year 60 machine, adult education programmes, fruits and vegetables preservation etc. at Kalol units.

Major activities carried out in CORDET during last three years

Sr No	Year / Duration	Number of training programs organized for farmers from various States & Women from nearby villages	Number of participants (farmers and women) in the training programs	Number of soil samples analysed for various nutrients	Production of bio fertilisers in Lakh litres
1	2020-21	304	30712	142974	11.59
2	2021-22	170	13739	72396	2.641
3	2022-23	125	15010	229294	3.21

Apart from above, Integrated Rural Development Program (IRDP) has been undertaken in various villages. A variety of social and promotional activities like construction of community centres, drinking water facility, tree plantation, soil testing campaigns, supply of cattle feed, promotion of vermi compost, mini-kit distribution (CIP) etc. were undertaken in these villages. Around 67 programmes in various field have been organized during FY 2022 - 23 which benefitted 4818 farmers.

3. Social Activities at Corporate Level (Non-Profit)

i. IFFCO Kisan Sewa trust:

A Charitable Trust created out of joint contributions from IFFCO & its employees has undertaken variety of activities to assist poor and needy farmers affected due to natural calamities such as earthquake, flood, Tsunami etc. It also extends helping hand to the farmers in distress due to aberrant weather conditions. The Trust expanded its scope by providing Financial Assistance to the farmers living below poverty line for their critical medical treatment and education scholarship for higher studies to the children of poor & needy farmers.

ii. Indian Farm Forestry Development Cooperative Limited (IFFDC):

IFFCO had promoted a separate Multi-State Cooperative Society named 'Indian Farm Forestry Development Cooperative Limited' (IFFDC) in 1993 with the prime objective of development of wasteland for tree plantation and to enhance the socio-economic status of rural poor through sustainable Natural Resource Management by collective action. To achieve this, IFFDC initially implemented

afforestation and rural development projects in the States of Uttar Pradesh, Madhya Pradesh and Rajasthan with an objective to improve degraded land, generate employment and provide fuel and fodder to the community. Afforestation in about 29,420 hectare wasteland has been achieved by promoting 152 villages level Primary Farm Forestry Cooperative Societies (PFFCS).

iii. Professors Chairs in Agricultural Universities and Cooperative Institutions:

In order to promote excellence in agricultural research and cooperative education in the country, IFFCO has established Professors' Chairs in Agricultural Universities and Cooperative Institutions. At present, 17 Chairs are set up in different parts of the country. IFFCO Professors' Conferences are held periodically and action plans are discussed.

iv. Information and Communications Technology:

This module is optimized for the touch screen monitor based "Cyber Dhabas" (Information Kiosks) being set up by IFFCO. Extensive usage of graphics and audio is implemented to encourage usage of the system by visitors from rural India. The same SIM Card which is used for communication, is turned into a powerhouse of knowledge for empowering people living in villages through relevant & pertinent information.

v. Save the Soil

IFFCO initiated, "Save the Soil Campaign" with focus on soil rejuvenation and crop productivity enhancement for sustainable and environment friendly agriculture. For this, activities were undertaken across the country to promote soil testing, soil reclamation and conservation, application of balanced and integrated use of nutrients, water resource development and conservation, inclusion of pulses in cropping system, crop diversification, farm mechanization etc. In addition, hand holding of farmers and cooperatives was done by providing financial assistance for installation of biogas units, MIS - drip irrigation systems/sprinkler sets, plastic mulching, farm machinery etc. These efforts have resulted into an average yield increase of 15–25% in various crops; improvement in soil health and above all dissemination of improved farm technologies.

ANNEXURE XIX
COPY OF RECEIPT OF ACKNOWLEDGMENT

ENVIRONMENTAL
CLEARANCE

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive,
and Virtuous Environment Single-Window Hub)



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Director

INDIAN FARMERS FERTILIZER COOPERATIVE LIMITED (IFFCO)

IFFCO Kalol Unit, P.O. Kasturi Nagar, District Gandhinagar, North Gujarat
- 382423, Gandhinagar, Gujarat-382423

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity
under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC)
in respect of project submitted to the Ministry vide proposal number
IA/GJ/IND3/412440/2022 dated 21 Feb 2023. The particulars of the environmental
clearance granted to the project are as below.

- | | |
|---|--|
| 1. EC Identification No. | EC23A016GJ154380 |
| 2. File No. | J-11011/60/2009-IA-II(I) |
| 3. Project Type | Expansion |
| 4. Category | A |
| 5. Project/Activity including
Schedule No. | 5(a) Chemical fertilizers |
| 6. Name of Project | Expansion of Existing Fertilizer Plant for
Manufacturing of Nano Fertilizer and
Nano Micronutrients at Plot no. 712/846,
855, 856 of Saij, 17-37 of Dhanej,
Kasturinagar, Kalol GIDC, District -
Gandhinagar, Gujarat- 382423 |
| 7. Name of Company/Organization | INDIAN FARMERS FERTILIZER
COOPERATIVE LIMITED (IFFCO) |
| 8. Location of Project | Gujarat |
| 9. TOR Date | N/A |

The project details along with terms and conditions are appended herewith from page
no 2 onwards.

Date: 07/03/2023

(e-signed)
Mr. Motipalli Ramesh
Scientist E

IA - (Industrial Projects - 3 sector)

Note: A valid environmental clearance shall be one that has EC identification
number & E-Sign generated from PARIVESH. Please quote identification
number in all future correspondence.

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तलाठी कम मंत्री
धानज ग्राम पंचायत
ता. कलोल, ज. गांधीनगर



Received
तलाठी कम मंत्री
सईध ग्राम पंचायत
ता. कलोल, ज. गांधीनगर
07/03/2023

ENVIRONMENTAL
CLEARANCE

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive,
and Virtuous Environment Single-Window Hub)



Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

To,

The Director

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IFFCO Kalol Unit, P.O. Kasturi Nagar, District Gandhinagar, North Gujarat
- 382423,,Gandhinagar,Gujarat-382423

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| 6. Name of Project | Expansion of Existing Fertilizer Plant for
Manufacturing of Nano Fertilizer and
Nano Micronutrients at Plot no. 712/846,
855, 856 of Saij, 17-37 of Dhanej,
Kasturinagar, Kalol GIDC, District -
Gandhinagar, Gujarat- 382423 |
| 7. Name of Company/Organization | INDIAN FARMERS FERTILIZER
COOPERATIVE LIMITED (IFFCO) |
| 8. Location of Project | Gujarat |
| 9. TOR Date | N/A |

The project details along with terms and conditions are appended herewith from page
no 2 onwards.

Date: 07/03/2023

(e-signed)
Mr. Motipalli Ramesh
Scientist E
IA - (Industrial Projects - 3 sector)

*Note: A valid environmental clearance shall be one that has EC identification
number & E-Sign generated from PARIVESH. Please quote identification
number in all future correspondence.*

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नवादी कम मंत्री
शेरधा ग्राम पंचायत
ता.०. गांधीनगर



ANNEXURE XX
COPY OF ENVIRONMENT STATEMENT

**INDIAN FARMERS FERTILISER COOPERATIVE LIMITED
KALOL UNIT**

P.O. Kasturinagar, Dist: Gandhinagar (North Gujarat)
PIN Code : 382 423 (INDIA)

EPC/02/2504

Date: 8.8.2023

To,

Member secretary,
Gujarat Pollution Control Board,
Paryavaran Bhavan, Sector -10 A,
Gandhinagar - 382043
Gujarat.

**Sub: Environmental Statement as per Form - V (Environmental Audit Report)
for the Year 2022 - 2023**

Sir,

Please find attached herewith the Environmental Statement (Environmental Audit Report) pertaining to IFFCO Kalol unit for the year ending on 31st March 2023 as per **Form - V**.

This is in accordance with the provision of Rule 14 of the Environmental (Protection) Amendment Rule, 1993 of the Environmental (Protection) Act 1986.

Thanking you,

Sohil
08/08/2023

Sankar
08/08/23

10/08/23

10/08/23

Gujarat Pollution Control Board
Head Office
Sector No.-10-A,
Gandhinagar-382010

Encl: as above

CC: Shri S. V. Malsattar, Regional Officer, Gandhinagar, GPCB

Yours faithfully
For IFFCO - Kalol Unit

14/08/2023
(D. G. Inamdar)
Director

10/08/2023
ગુજરાત પ્રદૂષણ નિયંત્રણ બોર્ડ
પ્રાદેશિક કચેરી
પર્યાવરણ ભવન, સેક્ટર-૧૦-અ
ગાંધીનગર-૩૮૨૦૧૦

Phone : 079 - 23282003, 23282005
Fax : 079 - 23286020

Email: dginamdar@iffco.in
Web site Address: www.iffco.in

FORM – V

From:

**Director
IFFCO – Kalol Unit
P .O. Kasturinagar (PIN 382423)
Dist.: Gandhinagar (Gujarat)**

To,

**Gujarat Pollution Control Board
“Paryavaran Bhavan”,
Sector - 10 A,
GANDHINAGAR – 382010**

ENVIRONMENT STATEMENT for the financial year ending the 31st March 2023.

PART: A

- | | | |
|-------|---|--|
| (i) | Name and address of the
Owner/ Occupier of the
Industry, Operation or process | : Shri. D. G. Inamdar
Director & Unit Head
IFFCO - Kalol |
| (ii) | Industry category-
Primary- (ST. - Code)
Secondary - (SIC Code) | : Fertiliser Sector (Nitrogenous)
IFFCO falls under Co-op Societies Act. |
| (iii) | Production capacity Units

(As per EC F. No. J-11011-60
-2009-IA-II(I) dtd 07 03 2023) | : a) Urea 6,75,000 MT/Year (100%) max or
Urea 5,44,500 MT/ Year (100%) &
Diesel Exhaust Fluid - 401538 MT/Year #
(32.5 % Urea Solution) max or
Urea 5,44,500 MT/ Year (100%) &
Diesel Exhaust Fluid 326250 MT/Year #
(40 % Urea Solution) max
b) Ammonia 4,01,500 MT/Year
c) Nano Fertilisers @ - 100375 KL/Year **
Nano-Nitrogen (Urea)/
Nano DAP /
Nano Micro Nutrients
(Nano Zinc/ Nano Copper/
Nano Boron & Nano Sulphur) |
| (iv) | Year of commissioning | : Ammonia & Urea Plant - January, 1975
Diesel Exhaust Fluid (DEF) Plant
– September, 2019
Nano Fertilisers Plant - I – August, 2021
Nano Fertilisers Plant – II – Under construction |
| (v) | Date of the last environmental
Statement submitted. | : 30/8/2022 |

Depending upon the requirement of urea in the market, there shall be variation in quantity of DEF Production. However, total urea production shall be limited to 675000 MTPA (Max) under all the above combinations.

** Products shall be manufactured in any combination or single product in both plants i.e., Nano I & Nano II on demand basis. However, total capacity of plant will be limited to 100375 KLPA.

@ Nano Urea contains 40000 ppm (Min) of nitrogen, Nano Zinc contains 10000 ppm (Min) of Zinc, Nano copper contains 8000 ppm (Min) of copper, Nano Boron contains 4500 ppm (Min) of Boron, Nano Sulphur contains 10000 ppm (Min) of Sulphur and Nano DAP contains 8 % of Nitrogen (Min) and 16 % of P₂O₅(Min).

Submission of Environmental Statement is in accordance with the provisions of Rule -14 of the Environment (Protection). Amendment Rule, 1993 of the Environment (Protection) Act, 1986 (29 of 1986) published vide Notification dated 22-4-1993 G.S.R. 386 (E) in the gazette of India- Extraordinary part-II Section -3 Subsection (i), No.155 dated 28-4-1993 by the Ministry of Environment and Forests, Government of India; read with the Notification dated 13-3-1993 G.S.R. 329 (E), of the Gazette of India - Extraordinary part - II Section - 3 Subsection(i) No.120 dtd 13-3-1993.

*Every person carrying on an industry, operation or process requiring Consent under section 25 of the Water (Prevention and Control of Pollution) Act, 1974 (6 of 1974) or under section - 21 of the Air (Prevention and Control of Pollution) Act, 1981 (14 of 1981) or both authorisation under the Hazardous Waste (Management and Handling) Rules, 1989 issued under the environment(Protection) Act, 1986 (29 of 1986) shall submit an environmental audit report for the financial year ending the 31st March in Form- V to the concerned State Pollution Control Board on or before the thirtieth day of September every year, beginning 1993.

Cont.. 2

PART – B

Water and Raw material Consumption

(i) Average water Consumption m³ /day during the year 2022 - 23

Process	: 100
Cooling & Boiler feed	: 9659
Domestic	: 600

Name of products	Process water consumption per unit of product output			
	During the previous Financial year		During the current Financial year	
	2021 - 2022		2022 - 2023	
	CT make up	BF make up	CT make up	BF make up
(1) Ammonia	4.15 m ³	2.66 m ³	4.17 m ³	2.48 m ³
(2) Urea	1.04 m ³	0.56 m ³	1.01 m ³	0.50 m ³
Legend: CT : Cooling Tower BF : Boiler Feed				

(ii) Raw material consumption

* Name of raw materials	Name of Product	Consumption of raw material Per unit of output	
		During the previous Financial Year	During the current Financial Year
		2021 - 2022	2022 - 2023
<u>Ammonia:</u>			
(1) RLNG *	Ammonia	841.964 Sm ³	821.250 Sm ³
<u>Urea:</u>			
(1) Ammonia	Urea	570.663 Kg	570.159 Kg
(2) CO ₂	Urea	781.33 Kg	745.71 Kg
(3) RLNG	Urea	86.99 Sm ³	80.47 Sm ³
<u>DEF (32.5%):</u>			
(1) 80% Urea Solution	DEF (32.5%)	0.35425 MT	0.35425 MT
(2) DM Water	DEF (32.5%)	2.831 m ³	2.708 m ³

Industry may use codes, if disclosing details of raw material would violate contractual obligations, Otherwise all industries have to name the raw materials used.

* Indicates both feed and fuel

Cont.. 3

PART - C

Pollution discharged to environment / unit of output
(Parameters as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged (m³ / day)#	Concentration of pollutant discharged (Mass/ volume)	Percentage of variation from Prescribed standards with reasons
(a) Water	1155 m ³ /day	Please refer Annexure - I	Nil
(b) Air	-	Please refer Annexure - I	Nil

There was no discharge of treated effluent outside the plant premises during the year 2022 - 23.

PART - D**HAZARDOUS WASTES**

[As specified under Hazardous wastes [Management and Handling] Rules, 1989]

Hazardous wastes	Total quantity (Kg)	
	During the previous financial year 2021 - 22	During the current financial year 2022 - 23
(a) From process		
1. Spent Catalyst (Generated in Ammonia plant)	1200	25000 #
2. Spent Carbon	3000	3000
(b) From pollution control facilities		
1. ETP Sludge	10000	10000*
2. Spent resin	28000	45000*

Action is being initiated for E-Auction through M/s M-Junction, Kolkata for sale of spent catalyst.

* Action already initiated for disposal at TSDF site of M/s Ecocare Infrastructure Pvt.

PART - E (Solid waste)

Particulars	Total quantity (kg)	
	During the previous financial year 2021 - 22	During the current financial year 2022 - 23
(a) From Process	No solid waste generated from process	
(b) From pollution control facilities	NIL	NIL
(c) (1) Quantity recycled or reutilized within the unit	NA	NA
(2) Sold	NA	NA
(3) Disposed	NA	NA
NA : Not applicable		

Cont..4

PART – F

Please specify the characterizations (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Sr. No.	Type of Waste	Composition	Quantity (MT)	Disposal practice
1.	ETP sludge	Ca & Mg Salt	41.66	Disposed off at TSDF Site of M/s Eco care Infrastructure Pvt Ltd.
2.	Spent Catalyst	Cu/Ni/Zn	Nil	Sell to registered and authorized recycler.
3.	Spent Carbon	Activated Carbon	Nil	Disposal at TSDF Site / Co-processing in cement industries.
4.	Spent Resin	--	56.775	Disposed off at TSDF Site of M/s Eco care Infrastructure Pvt Ltd.
5.	Used or Spent Oil	-	5.520	Sold to registered and authorized refiners.
6.	Discarded Drums/Barrels (Plastic Drums/Carboy)	-	16.648	Sold to authorized decontamination facility.

PART - G

Impact of the pollution abatement measures taken on conservation of natural resource and the cost of production.

By implementation of pollution abatement, resource conservation and energy measures, there is reduction in specific energy consumption per MT of urea, reduction in raw water consumption and effluent generation, improvement in effluent quality, reduction in fuel consumption and there by overall improvement in the environment.

Pollution abatement / Resource conservation measure implemented during the year 2022 - 23 are as below:

1) Urea Plant:**Installation of Pre-flash vessel at Hydrolyser Section of Urea Plant**

Hydrolyser system was installed considering urea plant capacity of 1200 MTPD in December, 1992. With increase in capacity of urea plant, operational limitations have been faced in the hydrolyser section at higher plant load. To improve the operational flexibility of Hydrolyser section, one pre-flash vessel with associated system has been installed at upstream of first desorber at Urea Plant. This has resulted in more ammonia recovery in atmospheric scrubber there by reducing ammonia loss.

2) Offsite Plant:**New Screw air compressor in Inert Gas Plant at Offsite**

7 Nos of Reciprocating type of Air Compressors have been installed for meeting the Plant Air/ Inert Gas requirement of the plant. Out of that, 5 Nos of Air Compressors were delivering the Plant/instrument air and rest 2 Nos of compressors were used for both Air and IG service requirement. Since these reciprocating compressors were very old and causing frequent operational & maintenance problems. Out of 7 compressors, 3 reciprocating compressors were replaced with 2 nos. of screw type rotary air compressor for maintenance and trouble free operation. This has resulted in yearly power saving of 216153 KWh.

3) Installation for one continuous Ambient Air Quality Monitoring station (CAAQMS)

Continuous Ambient Air Quality Monitoring station (CAAQMS) of Thermofisher Make has been installed near Plant main gate and commissioned in January 2023 for monitoring of PM₁₀, PM_{2.5}, SO_x, NO_x and Ammonia in the ambient air. One LED display board has been installed outside the plant gate highlighting above said parameters along with specific parameters of ETP such as pH, Ammonical Nitrogen and Flow.

4) Solid waste Management at IFFCO - Kalol

As a part of effective Solid waste Management system at IFFCO-Kalol, Purchase order has already been issued to M/s Durogreen, Ahmedabad and following equipment have been delivered at site for conversion of canteen waste and horticulture waste into manure.

- ❖ Composting machine with curing chamber
- ❖ Crusher / Shredding machine for handling of horticulture waste

Work order has been issued to above said agency for man power supply to carry out jobs related to collection, segregation of waste and treatment of biodegradable waste and also for transportation of recyclable waste to the registered recyclers. Civil work related to construction of shed has already been started.

Measures implemented towards renewable energy sources / Energy conservation during the year 2022 - 23.

Towards renewable energy sources:

- ❖ About 1970.98 MW of power was generated by Solar energy during the year 2022 - 23 (equivalent to 642 MT of CO₂ emission reduction @ 0.7 kg CO₂/KWh).

Towards Energy conservation:

Plant:

- ❖ Replacement of normal motors with energy efficient motors in Urea & Product Handling plants as mentioned below:
 - P-1426, K-4402/3, M-1402 and M-2116/4
- ❖ Replacement of conventional light fittings with LED luminaries in purchase & F&A section.

Township:

- ❖ Replacement of conventional light fittings with LED luminaries in street light & quarters.
- ❖ Replacement of conventional ceiling/exhaust fans with energy efficient fans in quarters and public buildings.

PART – H

Additional investment proposal for the year 2023 - 24 towards environmental protection including abatement of Pollution / prevention of Pollution.

Urea Plant:**1. Replacement of HP Stripper.**

Existing HP Stripper is in operation since 2002 with tube MOC of SA-213M-UNS S31050 (2 RE69) and Shell MOC of CS. Due to aging and to improve the overall HP system performance it is planned for replacement of existing HP Stripper with improved design. Order has been issued to M/s L&T and it will be replaced during annual turn around 2024. This shall result improvement in CO₂ stripping efficiency.

Offsite Plant:**1. Replacement of FD Fan turbine in BHEL Boiler at Offsite.**

Existing M/s KKK Germany make FD fan turbine is very old and was installed in the Year 1982. It is proposed to replace this turbine with high efficient turbine of Kirloskar Make during annual turn around 2024 for which order has already been issued. This shall result in saving of 0.4 Ton/hr 60 ata steam.

PART – I

Any other particulars for improving the quality of the environment.

❖ Vermicompost at IFFCO township (Kasturinagar)

Domestic waste generated in township is segregated into biodegradable and non biodegradable waste. Bio-degradable materials of about 350 kg/day is converted into vermicompost using earthworms. The nutrient present in the vermicompost are readily soluble in water and thus are very rich sources of macro and micro nutrients. This vermicompost is used as manure in gardening / horticulture within township. Cartons and non biodegradable waste (such as plastic) are disposed off to recyclers.

❖ **500 m³/day capacity sewage treatment plant at Township**

500 m³/day capacity Sewage Treatment Plant based on Fluidized Aerobic Biotechnology (FAB) has been installed at township Kasturinagar. Treated water is utilized for the gardening & nursery within the township.

❖ **Rain water harvesting**

In collaboration with Central Ground Water Board, water recharging well of 600 m³ capacity has been installed for rain water harvesting at IFFCO Township. Almost total rainwater is collected in 700 m³ capacity sumps and water is percolated in the soil through two tube wells provided. Also, "Rain water harvesting modules" of Approx. 25 m³ capacity each have been installed at township and near Union office at plant site for harvesting the rain water. Apart from above 2 nos of rain water harvesting system of single module with internal volume of 0.8 cubic meter (fixed below the ground level) have been implemented at two different locations at township.

❖ **Highlights of Environment / safety performance at IFFCO - Kalol for the year 2022 - 23**

- a) IFFCO Kalol Unit has been awarded the FAI special award for Research and Development/ Innovation for Development of Liquid Nano Fertilizer for the year 2020-21.
- b) IFFCO Kalol Unit has been awarded Prestigious Sarvashrestha Suraksha Puraskar-2022 (Golden Trophy) in recognition of outstanding performance in Occupational Safety & Health (OSH) Management System for the assessment period of three years (2019 to 2021) under the category of Manufacturing sector.
- c) One employee has been declared the winner of the "Shram Ratna Award" by the ministry of labour, employment and skill development government of Gujarat.
- d) Longest accident free period of more than 11 years (4285 days - from 9.7.2011 to 31.3.2023) was achieved surpassing the previous record of 2256 days.

❖ **IMS for IFFCO Kalol Unit:**

Surveillance audit of Integrated Management System (IMS) consisting of Quality Management System (ISO 9001:2015), Environment Management System (ISO 14001:2015) and Occupational Health and Safety Management System (ISO 45001:2018) was carried out by Bureau Veritas (India) Pvt Ltd during 9th & 10th May 2023 and the certificate is valid up to 4.4.2025.

❖ **ISO 50001:2011 for IFFCO Kalol Unit:**

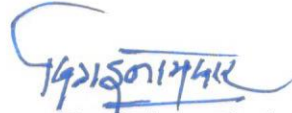
Surveillance audit of Energy Management System (ISO 50001:2018) by the certifying agency considering new standard ISO 50001:2018 was carried out during 10th & 11th May 2023 at IFFCO-Kalol and the certificate is valid up to 21.3.2024.

❖ **ISO 14001 & IGBC Rating for Township:**

IFFCO Kalol township is certified for its Environment Management System (**ISO 14001:2015**) by Bureau Veritas (India) Pvt Ltd and the certification is valid up to 31.5.2025. Also, Kasturinagar is certified under Green Residential Society Rating System of Indian Green Building Council (IGBC), Hyderabad with Platinum category.

Date : 8/8/2023

(Signature of official carrying out
an industry, operation or process)



(D. G. Inamdar)

Director, IFFCO Kalol



Annexure - I

Page 1 of 2

Liquid effluent : Final treated effluent
 Location of sampling point : Outlet of Effluent Treatment Plant (ETP).
 Report for the period : April - 2022 to March - 2023

Sr.No	Parameters	Unit	Permissible limit	Yearly Average Apr - 22 to Mar - 23
1	pH	--	6.5 to 8.5	6.6 - 8.4
2	Temperature	deg C	40	27
3	Colour (Pt.co. scale)	units	100	31
4	Suspended Solids	mg/l	100	25.3
5	Oil and Grease	mg/l	10	Traces
6	Fluorides	mg/l	2	0.7
7	Ammonical Nitrogen	mg/l	50	9.8
8	Total Chromium	mg/l	2	ND
9	Hexavalent Chromium	mg/l	0.1	ND
10	Copper	mg/l	3	0.04
11	Nickel	mg/l	3	ND
12	Zinc	mg/l	5	0.35
13	B.O.D (5 days at 20 ^o C)	mg/l	30	23
14	C.O.D	mg/l	100	60
15	Chlorides	mg/l	600	390
16	Sulphates	mg/l	1000	80
17	Total dissolved Solids	mg/l	2100	925
18	Sodium absorption ratio	-	26	2.31
19	Free Ammonia	mg/l	5	0.45
20	Total Kjeldahl Nitrogen	mg/l	100	19.5
21	Nitrate (NO ₃ -N)	mg/l	50	6.49
22	Sulphide	mg/l	2	ND
23	Bio Assay	--	90% survival of fish after 96 hrs in 100 % effluent	95% survival of fish after 96 hrs in 100 % effluent

Note: There was no discharge of treated effluent outside the plant premises during the year 2022 - 23.

ND : Not detectable



Annexure - I

Page - 2 of 2

STACK / PROCESS EMISSION ANALYSIS REPORT

FOR THE PERIOD APRIL - 2022 to MARCH - 2023

Analysis report of various emissions

Sr. No.	Emission points	Pollutant	Units	Concentration	GPCB Limit
1	Urea plant Prill tower exhaust	Particulate Matter	mg/Nm ³	86	150
2	Ammonia scrubber in urea plant (V- 1207)	Ammonia (gaseous)	mg/Nm ³	52.5	175
3	Primary Reformer and auxiliary boiler furnace stack	PM SO _x NO _x	mg/Nm ³ ppm ppm	21 2 19.6	150 100 50
4	Boiler (BHEL)	PM SO _x NO _x	mg/Nm ³ ppm ppm	16 1.7 17	150 100 50

ANNEXURE XXI
COPY OF LATEST NEWSPAPER ADVERTISEMENT

tions and respond to Virupakshappa's plea. He was able to persuade the CJI-led bench for urgent listing and was permitted to mention it before a bench headed by Justice Sanjay K Kaul. But Justice Kaul posted the petition on Wednesday.

HC scraps rehiring of VCs during Bengal govt spat with Dhankhar

Kolkata: The Calcutta HC struck down Tuesday the Bengal government's reappointment of VCs for 31 state-run universities during its two-year standoff with former governor and chancellor Jagdeep Dhankhar. The state had used the "removal of difficulty" clause in the state statutes to rehire the VCs and give extensions. The HC ruled that once the power "to reappoint or extend the tenure" was given to the chancellor, it "cannot be usurped by the state under removal of difficulty clause".

raid, in which the MLA's son, Prashanth Madal, was caught red-handed accepting a bribe of Rs 40 lakh by Lokayukta police. In the subsequent searches, the Lokayukta police had seized Rs 1.62 crore from Madal's office and an additional Rs 6.1 crore from his residence.

It also said that "the governor may, as soon as possible after the presentation to him of the bill, return it if it is not a money bill together with a message requesting that the House or Houses will reconsider the bill or any specified provision thereof..."



ESI-PGIMSR & ESIC MEDICAL COLLEGE, JOKA

A statutory body under Ministry of Labour & Employment, Govt. of India

DIAMOND HARBOUR ROAD, JOKA KOLKATA-700104

PH. NO.: (033)/ 29500731 Email : deanpgi-joka.wb@esic.nic.in

Advt. No. 03 & 04 of 2023

ESI-PGIMSR & ESIC Medical College, Joka invites application for the **post of Teaching Faculty & Part Time Specialist on Contractual Basis.**

The details of advertisement No. 03 & 04 of 2023 dated 06.03.2023 & 09.03.2023 are available on the website www.esic.gov.in of ESI Corporation.

Sd/-
Dean

RECRUITMENT FOR NON-FACULTY POSITIONS

Indian Institute of Science Education and Research (IISER) Mohali, an Institute of National Importance, invites applications from suitable Indian nationals for appointment of various non-faculty vacant posts on regular basis. Last date for submission of application form is 04-04-2023 up to 05:30 PM.

For details regarding educational qualifications, experience, general conditions etc. please visit Institute's website www.iisermohali.ac.in

If there is any corrigendum/addendum/cancellation notice, it shall only be published on Institute's website.

Registrar



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INDIAN FARMERS FERTILISER COOPERATIVE LIMITED KALOL UNIT

Notification as per the directive of MOEF&CC (I.A.Division)

Sub : Environment Clearance for Expansion of existing fertiliser plant for manufacturing of Nano fertiliser and Nano micro nutrients at IFFCO-Kalol unit

Kalol Unit of Indian Farmers Fertiliser Cooperative Limited (IFFCO) has Ammonia-Urea and Nano Fertiliser Complex at Plot no. 712/846, 855, 856 of Saij, 17-37 of Dhanaj, P.O.:Kasturinagar, Kalol, District Gandhinagar, Gujarat. Project related to "Expansion of the existing Fertiliser Plant for manufacturing of Nano Fertilisers and Nano micronutrients" by IFFCO-Kalol Unit has been accorded Environmental Clearance vide Proposal number IA/GJ/IND3/412440/2022 dated 21st Feb 2023 and F.No.: J-11011/60/2009-IA-II(I) dated 7th March 2023 by the Ministry of Environment, Forest & Climate Change, Govt of India. Copies of the clearance letter are available with the SPCB/MoEF&CC and may also be seen at Website of the Ministry at <https://parivesh.nic.in>

D. G. Inamdar

Director (Kalol & Nano Fertiliser)

IFFCO Kalol Unit, P.O. Kasturinagar,

Dist: Gandhinagar, Gujarat - 382423

Phone: 079-23282005, 23282003



NATIONAL BOARD OF EXAMINATIONS IN MEDICAL SCIENCES

(Autonomous body of the M/o. Health & Family Welfare, Govt. of India)

NAMS Building, Medical Enclave, Ansari Nagar,

New Delhi - 110029

માણસાના બનાવી

માટક અકાદમીના આર્થિક
 ભાના સહયોગથી ઉપા
 યોજવામાં આવ્યો હતો.
 રૂપે મહિલા ગાયકો દ્વારા
 ઘર આવી કે નન્દી પરી,
 તેરી યુનરિયા લહેરાઈ

ટાર્ટઅપ એન્ડ રૂઝમ યોજાયો

ગાંધીનગર | ભારતની આઝાદીના 1930ના રોજ મહાત્મા ગાંધીએ વિરોધમાં સત્યાગ્રહ કર્યો હતો. જે દ્વારા બાઈક રેલીનું આયોજન કરાયું હતું. કુટિર સુધી યોજવામાં આવી હતી.

सेक्टर 7 कोलेजમાં
विषय पर सेमिनार



ગાંધીનગર | 15 માર્ચ વિન્ય ગ્રાહકો
ત્યારે સેક્ટર 7 કોલેજમાં સ્વ-
સહાયકરણ વિષય પર સેમિ-
નોલોજીયસ અનિલ કક્કડ દ્વારા
આવી હતી.

ધાનેરા પાલિકામાં સર્વર ડાઉન રહેતા

કલોલ | કલોલ ભાજપ પરીવાર દ્વારા વખારીયા સ્કૂલ ખાતે ગુજરાત માધ્યમિક અને ઉચ્ચતર માધ્યમિક શિક્ષણ બોર્ડ ધોરણ 10 અને 12 ની પરીક્ષા આપવા જઈ રહેલા તમામ ઉર્જિવાન પરીક્ષાર્થીઓને પેન તથા પુષ્કગુચ્છ આપી જવલંત સફળતા મેળવવા સ્નેહસભર શુભેચ્છાઓ પાઠવી તેમનો ઉત્સાહ વધાર્યો હતો.

રાણપુર તાલુકાની નાની વાવડી ગામે
નિઃશુલ્ક સર્પરોગ નિદાન કેમ્પ યોજાયો

બોટાદ । રાણપુર તાલુકાના નાની વાવડી ગામે સહકારી મંડળીના ગોડાઉનમાં શ્રામ પંચાયત તેમજ સહકારી મંડળીના સંયુક્ત ઉપક્રમે નિઃશુલ્ક સર્વ રોગ નિદાન કેમ્પ યોજાયો હતો. જેમાં ડોક્ટર જયેશ અણ્ણીયાળીયા (BHMS) અને ડૉ. જયદીપ પંચાળા (BHMS) હાજર રહ્યા હતા. આ કેમ્પમાં લાંબડીની



હોમિયોપેથિક કોલેજના
વિદ્યાર્થીઓને માર્ગદર્શન
આપવામાં આવ્યું હતું.

ଜିଜ୍ଞାସକଙ୍କ ପାଇଁ

તમારા સમાજ-સંસ્થા, ધર્મ, સ્કૂલ, કોલેજ કે આસપાસ બનતી નાની-મોટી ઉજવણીઓને આ પેજ પર સમાવવા માટે નીચે આપેલા ઈ-મેઈલ કે વોટ્સએપ પર ફોટો સાથે વિગત મોકલો.

gnr.dbcommunities@gmail.com

પર મેઈલ કરો અથવા 9904928087 પર વોટ્સએપ કરો કે પછી
નીચેના સરનામે મોકલી આપો.

ગાંધીનગર જિલ્લા સીસ : બ્લોક નં. 14/1, ઘ ટાઇપ,
સેક્ટર-22, ગાંધીનગર.

ઉત્તર ગુજરાતના ગંજ બજારના ભાવ

to new name
ACHARYA PRITIBEN PRASHANT
Regd. Plot No. 11/PA2 Sec. 14 Gandhinagar

9510134357 ទំនាក់ទំនង
9574795213 អ៊ីម៉ែល
6351519310 អ៊ីម៉ែល

નહેર જોડેશ

માણસનાં બે જયુદ્ધાવીલા મેઝુરુટ કરે કલારા સાહેબની ડોઠમાં, મુ.માણસ
જાન્યારવા વિધવાન વધારીની એવ.એમ. જાળવી
જાન્યાર-૧૨-૧૯૪૭-૧૯૪૮માં વિદ્યારાન, રહે.દે.મંતુરા (લકોડે), તા.માણસ, જી.ગાંધીનગર
વિગ્રંથ તામનામાં- ૧. તાલી કમ નીલી, લાડેડો, અંક પંચાલ કવો, તા.માણસ, જી.ગાંધીનગર.
૨. માણસની, જાન્યાર-૧૯૪૭ સુધી જોડે એવીજ, સુત સામન-૧-૧૦ની જુદી, મુ.કરમાતા, તા.જી.ગાંધીનગર.

[illegible]

જાણક સેવક તા.૧૦ મી માર્ચ સુધે ૨૦૨૩ ના રોજ મારી સહી તથા ઓટલો મિલ્લો કરીને વાળો.

ગુજરાત સરકાર
 ધી.બી.પટેલ
 કુલિયંત
 રાજકોટ, ૧૫ મી. ૩. ૧. ૧૯૮૧

IFFCO

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ઈન્ડિયન ફાર્મસ ફર્ટીલાઇઝર કો.ઓપરેટીવ લિમિટેડ
કચ્છલ યુનિટ

MOEF&CC (I.A. Division) ના આદેશ અનુસાર સૂચના
વિષય: ઉફકો ઓલોહ યુનિટ ખાતે નેનો ખાતર ચાને નેનો સુક્ષ્મ પોષક તત્વો ન
ઉત્પાદન માટે હાણના ખાતર ના પ્લાન્ટ ના વિસ્તૃતીકરણ માટે પર્યાવરણ મંજૂરી

ઈનિશિયલ કર્મચરિ ક્ષેત્રાધાર્થીયર લો. ચો. ડિ.(IFFCO)ના ઠલોલ યુનિટ, ખોટર નં. 712/846, 855, 856-સર્ચ, 17-37 થાનખ, પોસ્ટ ઓફિસ-રત્નપુરીનામર, કસોલ, વિજલો ગાંધીનામર, ગુજરાત ખાતે ઓમોનિયા-યુરીયા અને નેલો કૃદ્ધીધાર્થીયર કોરોલ્લેકો ટાપેલ છે. રફકો કોલો યુનિટની "દાલના ખાતરના પાકાને ને નેલો ખાતર તોયે નેલો સુશખ પોલક તલો ના ઉત્પાદન માટે વિસ્તૃતીકરણ" સંબંધિત પરિચોળના લે ખાતર સરકાર ના પર્ચાસર, વળ અને આલોહના પરિવર્તન મંત્રાલય ના પ્રસ્તાવ નં. IA/GJ/IND3/412444/2022 તામીન ૨૨ લેપ્સુઆરી, ૨૦૨૩ તેમખ F. No.: J-11011/60/2009-IA-II(I) તામીન ૬ માર્ચ ૨૦૨૩ દાસ પર્ચાસર મંપુરી આપવામાં આવી છે. મંપુરી પત્ર ની નકલ SPCB/MoEF&CC થા ઉપલબ્ધ છે અને મેગાલયની વેબસાઈટ <https://parivesh.nic.in> પર ઓઈ સકાય છે

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ડાઈરેક્ટર (કલોલ ઇન્ડો એન્ડ બાઈર)
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જિ. ગાંધીનગર, ગુજરાત-૩૮૨૪૨૩
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માણસાના યુવકે સોશિયલ મીડિયા ગ્રૂપ બનાવી ગામની દીકરીઓના ફોટા મૂકી અભદ્ર લખાણ લખ્યુ ગ્રૂપમાં બિભત્સ વીડિયો ક્લિપ મુકી બદનામ કરનાર શખ્સ સામે પોલીસ ફરિયાદ કરાઈ

ભાસ્કર ન્યૂઝ | ગાંધીનગર

માણસા તાલુકાના છેવાડે આવેલા ગામના એક ગામના યુવક દ્વારા સોશિયલ મીડિયામાં ગ્રૂપ બનાવવામાં આવ્યું હતું. જેમાં ગામની દીકરીઓના ફોટા મુકી તેમને ગણિકા બતાવવામાં આવી હતી અને સાથે સાથે તેનો સમય અને ભાવ લખવામાં આવ્યો હતો. જ્યારે ગ્રૂપમાં સમાવેશ કરાતા ફોટા યુવતીના પરિવારના સભ્ય દ્વારા જોવામાં આવતા ગ્રૂપમાં ફોટા મુકીને બદનામ કરનારા શખ્સ સામે પોલીસ મથકમાં ગુનો નોંધવામાં આવ્યો હતો.

મળતી માહિતી મુજબ માણસા તાલુકાના છેવાડે આવેલા ગામના એક પરા વિસ્તારમાં રહેતા યુવક દ્વારા ગામની યુવતીઓને સોશિયલ મીડિયા મારફતે બદનામ કરવાનું કૃત્ય કરવામાં આવ્યું હતું. પરા વિસ્તારનું નામ લખીને યુવતીઓને ગણિકા બતાવવામાં આવી હતી અને તેની સામે તેમનો ભાવ અને કેટલા સમયે મળશે તે ઉપરાંત એક બિભત્સ વીડિયો ક્લિપ પણ ગ્રૂપમાં મુકવામાં આવી હતી. આ ગ્રૂપમાં એક જ પરિવારની ત્રણ યુવતીઓના ફોટા મુકવામાં આવ્યા હતા. જ્યારે ગ્રૂપમાં

યુવતીના પરિવારના સભ્યનો પણ સમાવેશ કરાયો હોવાથી ફોટા સાથેની વિગત તેમજ વાંચી હતી, જેમાં તેઓ વિગત વાંચતાં જ ચોકી ઉઠ્યા હતા. ગ્રૂપમાં ત્રણ યુવતીઓમાંથી બે સગીર વયની હતી. છતાં તેમને બદનામ કરવાનું કાવતરું કરવામાં આવ્યું હતું. આ બતાવવાના ચક્કરમાં પોતાના તમામ ફોટા સહિત અપલોડ કરી ખખડાવ્યા હતા. જેમાં ગ્રૂપ એડમિન અને ફોટા વાઈરલ કરીને બદનામ કરનાર ગામના જ વ્યક્તિ હોવાનું સામે આવ્યું મહિલાઓના ફોટા સોશિયલ મીડિયામાં ન મુકવા જોઈએ.

ધાનેરા પાલિકામાં સર્વર ડાઉન રહેતા વેરો ભરવા આવનાર લોકોને હાલાકી આખા દિવસમાં માત્ર બે કલાક જ સર્વર ચાલુ રહે છે

ભાસ્કર ન્યૂઝ | ધાનેરા

પાલિકામાં વેરામાં જે વ્યાજ લગાવેલ હોય તે તમામ વળતર માફી આપવાની જાહેરાત કરવામાં આવતા પાલિકામાં વેરો ભરવા કતાર લાગે છે પરંતુ સર્વર ડાઉન હોવાથી પાવતીઓ ના નિકળતા લોકો હેરાનગતી ભોગવી રહ્યા છે. ધાનેરા નગરપાલિકાના તમામ કરદાતાઓને જાણ કરવામાં આવેલ કે સરકાર દ્વારા નાણાકીય વર્ષમાં અગાઉના વર્ષના તમામ પ્રકારના વેરાની પ્રક્રિયા ઓનલાઈન હોવાથી આ તમામ સીસ્ટમનું સર્વર ગાંધીનગર ખાતે છે અને સર્વર અવાર નવાર બંધ થવાના કારણે આ સમસ્યા ઉભી થવા પામી છે અને આ બાબતે અમાં એ ઉપરી કચેરી ખાતે પણ વારંવાર રજુઆતો પણ કરવામાં આવી છે.

બાકીદારો પોતાના વેરા ભરવા માટે નગરપાલિકામાં પહોંચી રહ્યા છે. પરંતુ નગરપાલિકા દ્વારા પાવતીઓ બનાવવામાં સર્વર અવાર નવાર બંધ પડવાના લીધે વેરો ભરવા આવનાર લોકોને કલાકો સુધી બેસવું પડી રહ્યું છે. આ બાબતે નગરપાલિકામાં વેરા વિભાગના અધિકારીને પુછતા જણાવેલ કે આ બધી પ્રક્રિયા ઓનલાઈન હોવાથી આ તમામ સીસ્ટમનું સર્વર ગાંધીનગર ખાતે છે અને સર્વર અવાર નવાર બંધ થવાના કારણે આ સમસ્યા ઉભી થવા પામી છે અને આ બાબતે અમાં એ ઉપરી કચેરી ખાતે પણ વારંવાર રજુઆતો પણ કરવામાં આવી છે.

ધર્મ-સમાજ-સંસ્થા

સેક્ટર-22માં દિવ્યાંગ સમૂહ લગ્નોત્સવમાં 10નવ યુગલે પ્રભુતામાં પગલાં પાડ્યાં



ગાંધીનગર | સેક્ટર-22 રંગમંચ ખાતે લાયન્સ ક્લબ ઓફ ગાંધીનગર ફેમિના અને એસોસિએશન ફોર સોશિયલ વેલફેર એન્ડ ડેવલપમેન્ટ દ્વારા દિવ્યાંગ સમૂહ લગ્નોત્સવનું આયોજન કરાયું હતું. જેમાં 10 જેટલા નવયુગલોએ પ્રભુતામાં પગલાં માર્યા હતા. આ પ્રસંગે મેયર હિતેશ મકવાણા, ઉત્તરના ધારાસભ્ય રીટાબેન પટેલ, માણસાના ધારાસભ્ય જે.એસ.પટેલ, સંસ્થાના આગેવાનો તેમજ મોટી સંખ્યામાં લોકો ઉપસ્થિત રહ્યા હતા. આ અવસરે મેયરે એકમકના સંગાથ અને જીવનભરના વિશ્વાસના પવિત્ર લગ્નસંબંધને વધાવીને નવયુગલોને સુખી લગ્ન જીવનની શુભકામનાઓ પાઠવી હતી.

સહજાનંદ સ્કૂલ ઓફ એયિવર વાર્ષિકોત્સવમાં નાટક અને સાંસ્કૃતિક કાર્યક્રમો યોજાયા



ગાંધીનગર | સહજાનંદ સ્કૂલ ઓફ એયિવરનો વાર્ષિકોત્સવનો કાર્યક્રમ તાજેતરમાં યોજવામાં આવ્યો હતો. જેમાં કેજથી ધોરણ-9ના પ્રથમ ત્રણ ક્રમ હાંસલ કરેલા, ધોરણ-10માં એ1 અને એ2 ગ્રેડ મેળવનાર વિદ્યાર્થીઓને ઈનામ અપાયા હતા. ઉપરાંત વિદ્યાર્થીઓ દ્વારા ગરબા, નૃત્ય અને નાટક સહિતના સાંસ્કૃતિક કાર્યક્રમો રજુ કર્યા હતા. વધુમાં ટ્રાફિકના નિયમોને જાણકારી આપતું નાટક વિદ્યાર્થીઓએ રજુ કર્યું હતું.

મીઠા પર લગાવેલા ટેક્સ કાયદાની યાદમાં બાઘક રેલીનું આયોજન કરાયું



ગાંધીનગર | ભારતની આઝાદીના ચળવળની મહત્વની ઘટના 12 માર્ચ 1930ના રોજ મહાત્મા ગાંધીએ મીઠા પર લગાવેલા ટેક્સના કાયદાના વિરોધમાં સત્યાગ્રહ કર્યો હતો. જેની યાદગીરી રૂપે દાંડી કુટિર સંગ્રહાલય દ્વારા બાઈક રેલીનું આયોજન કરાયું હતું. રેલી સાબરમતિ આશ્રમથી દાંડી કુટિર સુધી યોજવામાં આવી હતી.

સેક્ટર 7 કોલેજમાં ગ્રાહક સહકર્તાકરણ વિષય પર સેમિનારનું આયોજન કરાયું



ગાંધીનગર | 15 માર્ચ વિશ્વ ગ્રાહક અધિકાર તરીકે મનાવવામાં આવે છે. ત્યારે સેક્ટર 7 કોલેજમાં સ્વચ્છ ઊર્જા સંક્રમણો દ્વારા હાલકોને સહકર્તાકરણ વિષય પર સેમિનાર યોજાયો હતો. જેમાં લીગલ વોલેન્ટરીયસ અનિલ કક્કડ દ્વારા વિદ્યાર્થીનીઓને માહિતી પુરી પાડવામાં આવી હતી.

સેક્ટર-23ની એ. એ. કોમર્સ કોલેજનો વાર્ષિકોત્સવ અને વિદાય સમારંભ યોજાયો



માણસા તાલુકાના પુરવઠા વિભાગ દ્વારા કેમ્પનું આયોજન કરવામાં આવ્યું



માણસા | માણસા તાલુકાના ચાંદીસણા,આમજા, ધેધુ,નાદરીમાં જિલ્લા પુરવઠા અધિકારીના માર્ગદર્શન હેઠળ માણસા પુરવઠા વિભાગ દ્વારા એનએફએસએ અંતર્ગત રાષ્ટ્રીય અન્ન સલામતી કાયદો 2013 હેઠળ નાયબ મામલતદાર પુરવઠાની ટીમ દ્વારા કેમ્પનું આયોજન કરવામાં આવ્યું હતું જેમાં અધિકારી દ્વારા નાગરિકોને કાયદા વિશે સમજ આપી હતી જેમાં ગ્રામજનોનો સારો પ્રતિસાદ મળ્યો હતો.

ઉદ્દગમ સંસ્થાનો ઉષા પર્વ-3 જો ઉદ્દગમ સૂરોત્સવનો કાર્યક્રમ યોજવામાં આવ્યો



ગાંધીનગર | ઉદ્દગમ ચેરિટીબલ ટ્રસ્ટ દ્વારા આઝાદીકા અમૃત મહોત્સવ અંતર્ગત ગુજરાત રાજ્ય સંગીત નાટક અકાદમીના આર્થિક સહયોગથી અને ગાંધીનગર સાહિત્ય સભાના સહયોગથી ઉષા પર્વ-3 જો ઉદ્દગમ સૂરોત્સવનો કાર્યક્રમ યોજવામાં આવ્યો હતો. જેમાં સંસ્થાના 25 વર્ષની ઉજવણીના ભાગરૂપે મહિલા ગાયકો દ્વારા દુર્ગા સ્તુતિ, ધન્ય ધન્ય નારી જીવન, મેરે ઘર આથી કે નન્દી પરી, માડી તારૂ કંકુ ખર્ચુને સુરજ ઉગ્યો, માઈ તેરી યુનરિયા લહેરાઈ સહિતના ગીતો રજુ કર્યા હતા.

સરકારી કોલેજ ખાતે સ્ટુડન્ટ સ્ટાર્ટઅપ એન્ડ ઈનોવેશનની જાણકારીનો કાર્યક્રમ યોજાયો



ગાંધીનગર | નગરના સેક્ટર-15ની સરકારી સાયન્સ કોલેજ ખાતે તાજેતરમાં સ્ટુડન્ટ સ્ટાર્ટઅપ એન્ડ ઈનોવેશન પોલીસીની જાણકારી આપતો કાર્યક્રમ તાજેતરમાં યોજવામાં આવ્યો હતો. જેમાં એક્સએસઆઈઈ ઈનોવેશન અને યુડીઆઈએસએચએ કમિટી દ્વારા યોજાયેલા કાર્યક્રમમાં એમ્બલોયેબિલિટી થ્રુ એન્ટરપ્રિન્યોરશિપ એન્ડ ઈનોવેશન ઉપર જાણકારી ગુજરાત ટેકનોલોજી યુનિવર્સિટીના સીઈઓ ડો. મહેન્દ્ર ચોધરી દ્વારા આપવામાં આવી હતી.

સોજા કેન્દ્રે શાંતિપૂર્ણ માઠોલમાં પરીક્ષાનો પ્રારંભ



માણસા | માણસા તાલુકાના સોજાની શેઠ એચ. એમ.સાર્વજનિક હાઈસ્કૂલ ખાતે અત્યંત શાંતિપૂર્ણ રીતે એસ.એસ.સી બોર્ડ પરીક્ષાનો પ્રારંભ થયો હતો. સોજા હાઈસ્કૂલ સહિત આસપાસની શાળાના સાડા પાંચસોથી પણ વધુ પરીક્ષાર્થીઓ કેન્દ્રમાંથી પરીક્ષા આપી રહ્યાં છે. કેન્દ્ર સંચાલક, શિક્ષકો અને અગ્રણીઓ દ્વારા તમામ બાળકોને પુષ્ક અર્પણ કરી આવકારી સાકરથી ગળ્યું મોં કરાવી શુભેચ્છાઓ પાઠવી આપવામાં આવી હતી. માતૃભાષા ગુજરાતીનું આજનું પ્રશ્નપત્ર બાળકો માટે એકંદરે સહજ-સરળ-સહેલું રહ્યું હતું.

કલોલ ભાજપ પરિવાર દ્વારા બોર્ડના વિદ્યાર્થીઓને શુભેચ્છા પાઠવાઈ



કલોલ | કલોલ ભાજપ પરીવાર દ્વારા વખારીયા સ્કૂલ ખાતે ગુજરાત માધ્યમિક અને ઉચ્ચતર માધ્યમિક શિક્ષણ બોર્ડ ધોરણ 10 અને 12 ની પરીક્ષા આપવા જઈ રહેલા તમામ ઊર્જીવાન પરીક્ષાર્થીઓને પેન તથા પુષ્કગુચ્છ આપી જવલંત સફળતા મેળવવા સ્નેહસભર શુભેચ્છાઓ પાઠવી તેમનો ઉત્સાહ વધાર્યો હતો.

રાણપુર તાલુકાની નાની વાવડી ગામે નિં.શુલ્ક સર્વ રોગ નિદાન કેમ્પ યોજાયો



બોટાદ | રાણપુર તાલુકાના નાની વાવડી ગામે સહકારી મંડળીના ગોડાઉનમાં ગ્રામ પંચાયત તેમજ સહકારી મંડળીના સંયુક્ત ઉપક્રમે નિં.શુલ્ક સર્વ રોગ નિદાન કેમ્પ યોજાયો હતો. જેમાં ડોક્ટર જયેશ અણીયાળીયા (BHMS) અને ડો. જયદીપ પંચાળા (BHMS) હાજર રહ્યા હતા. આ કેમ્પમાં લીબીડીની હોમિયોપેથિક કોલેજના વિદ્યાર્થીઓને માર્ગદર્શન આપવામાં આવ્યું હતું.

દિવ્ય ભાસ્કરને જણાવો

તમારા સમાજ-સંસ્થા, ધર્મ,સ્કૂલ, કોલેજ કે આસપાસ બનતી નાની-મોટી ઉજવણીઓને આ પેજ પર સમાવવા માટે નીચે આપેલા ઈ-મેઈલ કે વોટ્સએપ પર ફોટો સાથે વિગત મોકલો.

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પર મેઈલ કરો અથવા 9904928087 પર વોટ્સએપ કરો કે પછી નીચેના સરનામે મોકલી આપો.

ગાંધીનગર બ્યૂરો ઓફિસ : ઓલક નં. 14/1, ઘટાધામ, સેક્ટર-22, ગાંધીનગર.

ઉત્તર ગુજરાતના ગંજ બજારના ભાવ

મહેસાણા	એરંડા	કપાસ
એરંડા 410 - 488	1230 - 1287	1314 - 1522
બાજરી 345	મગફળી 1300 - 1438	ઉનાવા
એરંડા 1200 - 1277	કપાસ 1450 - 1611	કપાસ 1251 - 1585
ચણંડો 851 - 1128	ઘઉં 400 - 542	એરંડા 1212 - 1280
ગવાર 1031	જુવાર 915 - 1423	ચણંડો 900 - 1031
મેથી 1151 - 1344	ગવાર 1049	
સવા 1875	શણ 1472	બહુરાણ
અંજમો 1650 - 2247	ચણા 861 - 900	ઘઉં 402 - 425
મહેસાણા શાક માર્કેટ	કુકરવાડા	તુવર 1150 - 1400
મરચાં 400 - 1000	ચણંડો 925 - 1008	ચણંડો 950 - 890
પરેયા 500 - 600	એરંડા 1220 - 1282	એરંડા 1265 - 1280
બટાકા 30 - 200	કપાસ 1300 - 1578	જીરું 3375
લીંબુ 1800 - 2200	ઘઉં 490 - 609	વરીયાળી 2891
ભીંડા 40 - 1200	મેથી 1149	સવા 1445
દુધી 40 - 300	રાજગરો 1441 - 1525	બીટી કપાસ
કાકડી 200 - 400	ગોંઝરીયા	1352 - 1451
ભટ્ટા 60 - 400	ચણંડો 800 - 980	ઊંઝા
રેચયા 30 - 400	એરંડા 1230 - 1260	જીરું 4825 - 7070
રીંગણ 50 - 180	કપાસ 1500 - 1564	વરીયાળી 2525-5800
કારેલાં 550 - 600	બાજરી 1500 - 1564	ઈસબગુલ
લણણ 700 - 1300	બાજરી 485	2941 - 3538
કોબીજ 100 - 240	ઘઉં 435 - 511	ચણંડો 986 - 1121
ફલાવર 150 - 460	વિજાપુર શાક માર્કેટ	સવા 1711 - 2031
ગવાર 800 - 1600	બટાકા 50	અંજમો 1400 - 2801
વટાણા 200 - 440	ફલાવર 50 - 300	મોડાસા
ટામેટાં 100 - 400	કોબીજ 30 - 140	ઘઉં 390 - 518
આદુ 1100 - 1420	રેચયા 50 - 280	મકાઈ 410 - 468
કોથમીર 100 - 240	મરચાં 200 - 840	એરંડા 900 - 1266
દ્રાક્ષ 200 - 900	ટામેટાં 100 - 210	ચણંડો 900 - 1022
કેળાં 500 - 700	દુધી 100 - 200	સોયાબીન 950 - 985
ચીકુ 40 - 900	વાલોર 300	વરીયાળી 3000
કેરી 400 - 1400	તુવર 100	- 3230
તરબૂચ 200 - 260	ભટ્ટા 50 - 200	ચણા 880 - 976
દામ 100 - 800	ભીંડા 500 - 960	પ્રાંતિજ
ચાંબાલિયાસણ	મેથી 200	એરંડા 1210 - 1245
ઘઉં 360 - 495	કોથમીર 80 - 120	ઘઉં 410 - 465
એરંડા 1249 - 1258	સરંગવો 100 - 210	બાજરી 390 - 440
ચણંડો 947 - 992	સેન્ડી રેચયા 200 - 390	ગંગર 320 - 385
ગવાર 1050	સફેદ ભટ્ટા 50 - 150	પાલનપુર
વિસનગર	કડી	ઘઉં 425-526
વરીયાળી 2900-3915	ઘઉં 420 - 549	જુવાર 1538-1562
ઘઉં 410 - 521	ગંગર 350 - 440	બાજરી 451-477
જુવાર 1100 - 1595	મકાઈ 1700 - 1750	ચણા 865-906
બાજરી 380 - 492	ગવાર 1080	એરંડા 1260-1280
મગ 1251	તુવર 1161 - 1441	ચણંડો 900-1014
ચણા 850 - 893	એરંડા 1260 - 1301	વરીયાળી 2200-4000
ગવાર 921 - 1105	રાયડો 910 - 961	મકાઈ 470
તલ 1890	અસાળીયો 1000 - 1301	રાજગરો 1200-1680
ચણંડો 890 - 1201	કપાસ 1301 - 1534	જવ 441-470
એરંડા 1211 - 1282	ચણા 910 - 970	દિયોદર
મેથી 950 - 1211	મેથી 1136 - 1229	એરંડા 1275-1281
રાજગરો 1300 - 1526	ધાણા 891 - 1211	ચણંડો 900-1005
કપાસ 1300 - 1602	જોડાણા	બાજરી 500-555
અસાળીયો 1265	એરંડા 1245 - 1259	રા.બાજરી 490-570
વિજાપુર	રાયડો 908 - 998	ઘઉં 450-550
ચણંડો 850 - 1012	લાલ મરચાં 772-1116	જીરું 5500-6725
		રાજગરો 1450-1625
		વડગામ
		બાજરી 425-451

અવસાન નોંધ

સોલંકી : ભલાજી જવાનજી સોલંકી (ઉ.વ.60) ડબોડા, ગાંધીનગર ઠાકોર : કમળાબેન બાબુજી ઠાકોર (ઉ.વ.50) હાલોસા, ગાંધીનગર પરમાર : સુલોચનાબેન વિનોદચંદ્ર પરમાર (ઉ.વ.57) મોટા ચિલોડા, ગાંધીનગર

ગુમ થયેલ છે

સેનમા દિપક મહેશભાઈ તા.09/03/૨૦૨૩ને બુધવારના રોજ કલોલમાં થી ગુમ થયેલ છે.જે કોઈને ભાળા મળેતો નીચેના નંબર પર જાણ કરવા વિનંતી

9723165607 ભરતભાઈ 9510134357 રમેશભાઈ 9574795213 મનોજભાઈ 6351519310 મહેશભાઈ

જાહેર નોટીસ

માણસાના મે.જયુડીશીયલ મેજસ્ટ્રેટ ફર્સ્ટ ક્લાસ સાહેબની કોર્ટમાં, મુ.માણસા અરજદારના પ્રિશન્ટ વકીલશ્રી એચ.એમ. પ્રશાંત કિર્મીભાઈ પરસુરા અરજ નં.બપ/૨૦૨૩ અરજદારના પ્રિશન્ટ વિરુદ્ધમાં ફિલ્દભાઈ, રહે.હિંમતપુરા (લાકોડો), તા.માણસા, જી.ગાંધીનગર વિરુદ્ધ સમાવવામાં નં. તારીખ ૬મ માર્ચ, ૨૦૨૩, રામ પંચાત કરેલી, તા.માણસા, જી.ગાંધીનગર. ર. અચાર્યશ્રી, ડાહ્યાનંદ સુલ ઓફ એવિલર, સુલ સરભળુ-ખન્નવી નયુડ, મુ.સરગમવા,જી.ગાંધીનગર. વિષય:- જન્મ/મરણ રાહદર્શનમાં કલમ-૧૩(૩) ૧૦(૩) મુજબની નોંધ કરાવવા બબલન. આથી જાહેર જનતાને આ નોટીસથી જાણવામાં આવે છે કે અરજદારના પુત્ર હવે અરજદારના પ્રશન્ટ, રહે.હિંમતપુરા (લાકોડો), તા.માણસા, જી.ગાંધીનગરની પત્નિ તરીકે-૦૨/૦૩/૨૦૨૩ના રોજ હિંમતપુરા મુકને રહેલ હોય તે મુજબને જન્મનો દાખલો લેવા સાથે કરેલી કોર્ટમાં ફિલ્દભાઈ પરસુરા અરજ નં. બપ/૨૩ થી દાખલ કરેલ હોય તે કોર્ટમાં ફિલ્દભાઈને જન્મનો દાખલો લેવામાં આવે તેથી તે કોર્ટમાં લેવા તે વેબસાઈટને જાણે અચલ તેમના મહિલાના વકીલશ્રી મારકેટ અને બોર્ડમાં હિંન -૩૦ માં રજુ કરવામાં રહેશે. જે કોર્ટમાં ફિલ્દભાઈ વાંચા કે કોર્ટનું રજુ નહી થાય તો આગામી કુદમ કરવામાં આવશે જેનો નોંધ રાખો.

માર્ગ જોઈ ના ૧૨ માં માટે માટે રાત્રે ૨૦૨૩ ના રોજ માર્ચ સહી કરેલો ફોટોનો ફોટો ફરીને આપવો.

માર્ગ જોઈ ના ૧૨ માં માટે માટે રાત્રે ૨૦૨૩ ના રોજ માર્ચ સહી કરેલો ફોટોનો ફોટો ફરીને આપવો.

માર્ગ જોઈ ના ૧૨ માં માટે માટે રાત્રે ૨૦૨૩ ના રોજ માર્ચ સહી કરેલો ફોટોનો ફોટો ફરીને આપવો.

IFFCO

ઈન્ડિયન ફાર્મર્સ ફર્ટિલાઈઝર કો. ઓ.પરેટીવ લિમિટેડ કલોલ યુનિટ

MOEF&CC (I.A. Division) ના આદેશ અનુસાર સૂચના

વિષય: ઈફકો કલોલ યુનિટ ખાતે નેનો ખાતર અને નેનો સુક્રમ પોષક તત્વો ના ઉત્પાદન માટે હાલના ખાતર ના પ્લાન્ટ ના વિસ્તૃતીકરણ માટે પચાવરણ મંજૂરી

ઈન્ડિયન ફાર્મર્સ ફર્ટિલાઈઝર કો. ઓ. બિ.(IFFCO)ના કલોલ યુનિટ, પ્લોટ નં. 712/846, 855, 856-સર્વિજ, 17-37 ધાનજ, પોરદ ઓફિસ-ઉત્તરગુજરાત, કલોલ, જિલ્લો ગાંધીનગર, ગુજરાત ખાતે એમોનિયા-સુર્યા યાને નેનો ફર્ટિલાઈઝર કોમ્પ્લેક્સ આવેલ છે. ઈફકો કલોલ યુનિટની “હાલના પાસ્ટના પ્લાન્ટ ની નેનો ખાતર તેમજ નેનો સુક્રમ પોષક તત્વો ના ઉત્પાદન માટે વિસ્તૃતીકરણ” સંબંધિત પરિચોજના ને ભારત સરકાર ના પચાવરણ, વલ જાહેર આગોળવા પરીવર્તન મંત્રાલય ના પ્રસ્તાવ નં. IA/GJ/IND3/412440/2022 તારીખ ૨૧ ફેબ્રુઆરી, ૨૦૨૩ તેમજ F. No.: J-11011/60/2009-IA-1(1) તારીખ ૬ માર્ચ ૨૦૨૩ દ્વારા પચાવરણ મંજૂરી આપવામાં આવી છે. મંજૂરી પત્ર ની ઝડલ SP/CB/MOEF&CC પાસે ઉપલબ્ધ છે અને મંત્રાલયની વેબસાઈટ <https://parivesh.nic.in> પર જોઈ શકાય છે.

ડી. જી. ઈનામદાર કાયરેક્ટર(કલોલ અને નેનો ખાતર) ઈફકો કલોલ યુનિટ, ને. રાજકોટનાગર, જિ. ગાંધીનગર, ગુજરાત-૩૮૨૪૨૩ ફોન: ૦૬૬-૨૩૨૮૨૦૬, ૨૩૨૮૨૦૭

ANNEXURE XXII
COPY OF WATER AGREEMENT

CONTRACT

for

Water Supply

from

Narmada Branch Canal

Gujarat, India

BETWEEN

Sardar Sarovar Narmada Nigam Ltd.

&

**"Indian Farmers Fertiliser Cooperative Ltd (IFFCO)"
Kalol Unit**

Contract NO.: _____

Sardar Sarovar Narmada Nigam Ltd.

Block 12, New Sachinvalay, Sector 10,
Gandhinagar - 382 010, Gujarat, India
Phone No : +91-79-23252452
Fax No : +91-79-23223056

February 2016



अप्रैल 2016

TABLE OF CONTENTS

Preamble

SCHEDULES:

SCHEDULE "A" – Contract

SCHEDULE "B" – Layout and Company Scope of Work (With specifications of pipelines, pumps, etc)

ATTACHMENTS:

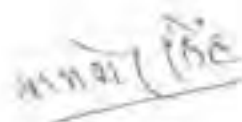
Annex A: Performance Guarantee proforma

Annex B: Copy Approval / Grant of Permission to draw water

Annex C: No Gift Representation









गुजरात गुजरात GUJARAT

AH 125812

45574 Date 18/2/16
Stamp Price Rs. 100/-
Purchaser Name: Indira Farmers Fertiliser Co-operative Ltd
Residence: Kalol
Purchaser Signature: K.S. Vaghela
Sifon Sin 40000
224157
JHA DHIRAJKUMAR AMBALAL
(STAMP VENDOR) LNO. 2190,
Naviyeh Road, W. Civil Court,
KALOL (N.G.) 382 721.

AGREEMENT

Agreement for sale of water to "Indian Farmers Fertiliser Cooperative Ltd (IFFCO)"
Kalol Unit by drawl from Dholka Branch Canal at Ch. 140m for Industrial Use.

RECITALS:

This Water Sale Agreement (hereinafter referred to as "Contract / Agreement") is
made and entered into this 22nd day of February, 2016

Between

(1) **Sardar Sarovar Narmada Nigam Ltd. (SSNNL)**, a Company incorporated under
the Companies Act, 1956 with its office at Block 12, 1st Floor, New Sachivalaya,
Sector-10, Gandhinagar – 382 010, Gujarat, India (hereinafter referred to as "SSNNL /
Seller"), which expression shall unless repugnant to the context or meaning thereof be
deemed to include its successors and permitted assigns) of the One Part.

and

Page : 3



अमेरि

(2) "Indian Farmers Fertiliser Cooperative Ltd (IFFCO)" Kalol Unit (Address: P.O. Kasturinagar, Dist: Gandhinagar, Pincode-382423, North Gujarat), a Multi State Cooperative Society functioning under the provisions of the Multi State Cooperative Societies Act, 2002 and having its registered office at IFFCO Sadar, C-1, District centre, Saket Place, New Delhi-110017 (hereinafter referred to as "Company") which expression shall unless repugnant to the context or meaning thereof be deemed to include its successors and permitted assigns) of the Second Part.

WHEREAS,

(a) SSNNL has set up a about 458 km long Narmada Main Canal to transport water from the Sardar Sarovar Dam to various areas in Gujarat and has also set up a network of canal consisting of about 38 branch canals off-taking from different locations from the main canal and

(b) SSNNL further desires to sell the water transported through this branch canal to various industrial consumers for their industrial requirement

(c) The company engaged in the business of Fertiliser manufacturing represents that it has industrial requirement of water and has applied for renewal of agreement permission (letter No: TM/02/1400 dated 04-01-2016) to draw water from Narmada Canal from HR @ Ch.140 m of Dholka Branch canal for the purpose of Industrial use in its existing Plant at Kalol (Address: P.O: Kasturinagar, Dist: Gandhinagar, Pincode-382423, North Gujarat), and

(d) The company represents that it is well equipped to efficiently draw water from the Dholka branch canal, store and use it for its operations and is ready, willing and able to purchase and pay for the water drawn from the canal, as defined below.

(e) SSNNL has under its sanction letter No: SSNNL/IND/1204/27/IFFCO/WMC of 2016 dated 04-02-2016 agreed to grant such permission as applied for by the Company on the terms and conditions mentioned in this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements hereinafter provided, the Parties hereby agree as follows:

1. SSNNL agrees to sell water in accordance with the terms and conditions of this Agreement and, in consideration of sale of water, the Company agrees to pay the SSNNL according to the terms and conditions herein contained.
2. The Agreement shall comprise of all the sections, exhibits, annexure attachments, Minutes of Meetings, LOI, all of which are annexed to this Contract / agreement.
3. The Contract shall be deemed to be effective from 23-02-2016 and shall be valid upto 22-02-2026.








In WITNESS WHEREOF, the Parties hereunder have caused this Agreement to be executed in duplicate, originals in their respective Corporate names by their respective officers thereunto duly authorized as of the date and year stated above.

Executed for and on behalf of

Executed for and on behalf of

Sardar Sarovar Narmada Nigam Ltd.

**"Indian Farmers Fertiliser
Cooperative Ltd (IFFCO)"**

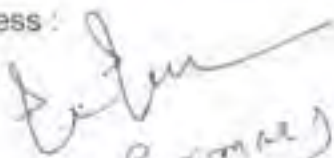

R.C. Vasava
Executive Engineer
N.P. Canal Dn.No.8, Dholka


Shamsher Singh
Executive Director
IFFCO Kalol Unit

Date: 22/02/2016


Date: 22-02-2016

Witness:


(P.C. Parmar)
(A.E.)



Witness:


H. S. Patel
DGM (Process)

ANNEXURE XXIII
PHOTOGRAPHS OF GREEN BELT

Photographs of Green Belt



i) Near Highway Gate of IFFCO Kalol Complex



ii) West side area (State highway side) of IFFCO Kalol Complex



iii) Around Guesthouse and CORDET area of IFFCO Kalol Complex



iv) North side area of IFFCO Kalol Complex



v) East side area of IFFCO Kalol Complex



vi) Front side area of Nano Fertiliser Plant

ANNEXURE XXIV
COPIES OF RECEIPT OF ACKNOWLEDGEMENT



Wholly owned by Cooperatives



इंडियन फार्मर्स फर्टिलाइजर कोऑपरेटिव लिमिटेड
INDIAN FARMERS FERTILISER CO-OPERATIVE LIMITED

ISO 9001
BUREAU VERITAS
Certification



कलोल इकाई
KALOL UNIT

KL/IR/C-106A/10

ફેબ્રુઆરી 6, 2021

પ્રતિ,

સરપંચ શ્રી,

- (1) સઈજ ગ્રામ પંચાયત
 - (2) શેરથા ગ્રામ પંચાયત
 - (3) ધાનજ ગ્રામ પંચાયત
- જિ. ગાંધીનગર.

મા સાહેબ શ્રી,

આ સાથે ઇફકો કલોલ એકમ ના પ્રસ્તાવિત વિસ્તૃતિકરણના સંદર્ભમાં ભારત સરકાર ના પર્યાવરણ અને વન વિભાગમાંથી આપવામાં આવેલ અનુમતિ પત્ર જોડેલ છે.

આ અંગે આપના તરફથી કોઈ સુઝાવ હોય તો અમોને જણાવવા વિનંતિ છે.

આભાર સહ,

આપનો વિશ્વાસુ,

ઇન્ડીયન ફાર્મર્સ ફર્ટિલાઇઝર કો.ઓ.લિ. વતી,

કલોલ ઇકાઈ
(ડી.જી. ઇન્ફોર્મેશન)

વરિષ્ઠ કાર્યકારી નિદેશક



બિડાણ: ઉપર મુજબ.

નકલ રવાના: કલેક્ટરશ્રી, ગાંધીનગર

જિલ્લા વિકાસ અધિકારીશ્રી, ગાંધીનગર

તાલુકા વિકાસ અધિકારીશ્રી કલોલ

કલોલ ઇકાઈ, પો.ઓ. કસ્તૂરીનગર, જિલ્લા : ગાંધીનગર-૩૮૨૪૨૩ (ગુજરાત)

ફોન : (02764) 220209, 220604, 223256, 223258, 22327

ગ્રામ : ઇફકો, કસ્તૂરીનગર ફેક્સ : 91-2764-22057

Kalol Unit, P.O. Kasturinagar, Dist. Gandhinagar-382423 (Gujarat)

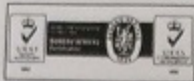
Phones : (02764) 220209, 220604, 223256, 223258, 22327

FAX : 91-2764-22057

Website : www.iffco.in

IFFCO

Wholly owned by Cooperatives



इंडियन फार्मर्स फर्टिलाइजर कोऑपरेटिव लिमिटेड
INDIAN FARMERS FERTILISER CO-OPERATIVE LIMITED



कलोल इकाई
KALOL UNIT

KL/IR/C-106A/10

डेब्रुआरी 6, 2021

प्रति,

सरपंच श्री,

(1) सईज ग्राम पंचायत

(2) शेरथा ग्राम पंचायत

(3) धानज ग्राम पंचायत

जि. गांधीनगर.

मा साहेब श्री,

आ साथे छडको कलोल એકમ ના પ્રસ્તાવિત વિસ્તૃતિકરણના સંદર્ભમાં ભારત સરકાર ના
પર્યાવરણ અને વન વિભાગમાંથી આપવામાં આવેલ અનુમતિ પત્ર જોડેલ છે.

આ અંગે આપના તરફથી કોઈ સુઝાવ હોય તો અમોને જણાવવા વિનંતિ છે.

આભાર સહ,

આપનો વિશ્વાસુ,

ઇન્ડિયન ફાર્મર્સ ફર્ટિલાઇઝર કો.ઓ.લિ. વતી,

(Signature)
(ડી.જી. ઇનામદાર)

વરિષ્ઠ કાર્યકારી નિદેશક

બિડાણ: ઉપર મુજબ.

નકલ રવાના: કલેક્ટરશ્રી, ગાંધીનગર

જિલ્લા વિકાસ અધિકારીશ્રી, ગાંધીનગર

તાલુકા વિકાસ અધિકારીશ્રી કલોલ

કલોલ ઇકાઈ, પો.આ. કસ્તૂરીનગર, જિલ્લા : ગાંધીનગર-૩૮૨૪૨૩ (ગુજરાત)

ફોન : (02764) 220209, 220604, 223256, 223258, 22327.

ગ્રામ : ઇફકો, કસ્તૂરીનગર ફેક્સ : 91-2764-22057.

Kalol Unit, P.O. Kasturinagar, Dist. Gandhinagar-382423 (Gujarat)

Phones : (02764) 220209, 220604, 223256, 223258, 22327.

FAX : 91-2764-22057.

Website : www.iffco.in

વળી.

(Signature)

કરેલા ગ્રામ પંચાયત

કરેલા

कलोल इकाई
KALOL UNIT

KL/IR/C-106A/10

ફેબ્રુઆરી 6, 2021

પ્રતિ,

સરપંચ શ્રી,

- (1) સઈજ ગ્રામ પંચાયત
 - (2) શેરથા ગ્રામ પંચાયત
 - (3) ધાનજ ગ્રામ પંચાયત
- જિ. ગાંધીનગર.

મા સાહેબ શ્રી,

આ સાથે છફકો કલોલ એકમ ના પ્રસ્તાવિત વિસ્તૃતિકરણના સંદર્ભમાં ભારત સરકાર ના પર્યાવરણ અને વન વિભાગમાંથી આપવામાં આવેલ અનુમતિ પત્ર જોડેલ છે.

આ અંગે આપના તરફથી કોઈ સુઝાવ હોય તો અમોને જણાવવા વિનંતિ છે.

આભાર સહ,

આપનો વિશ્વાસુ,

ઇન્ડિયન ફાર્મર્સ ફર્ટિલાઇઝર કો.ઓ.લિ. વતી,

કલોલ ઇકાઈ
(ડી.જી. ઇન્ફ્રાસ્ટ્રક્ચર)
વરિષ્ઠ કાર્યકારી નિદેશક

બિડાણ: ઉપર મુજબ.

નકલ રવાના: કલેક્ટરશ્રી, ગાંધીનગર

જિલ્લા વિકાસ અધિકારીશ્રી, ગાંધીનગર

તાલુકા વિકાસ અધિકારીશ્રી કલોલ

કલોલ ઇકાઈ, પો.આ. કસ્તૂરીનગર, જિલ્લા : ગાંધીનગર-૩૮૨૪૨૩ (ગુજરાત)

ફોન : (02764) 220209, 220604, 223256, 223258, 22327

ગ્રામ : ઇફકો, કસ્તૂરીનગર ફેક્સ : 91-2764-22057

Kalol Unit, P.O. Kasturinagar, Dist. Gandhinagar-382423 (Gujarat)

Phones : (02764) 220209, 220604, 223256, 223258, 22327

FAX : 91-2764-22057

Website : www.iffco.co.in

ANNEXURE XXV
COPY OF EARLIER NEWSPAPER ADVERTISEMENT

તા. ૦૬/૦૨/૨૦૨૧
સ્થળ : આણંદ

ਖਣੀ/-

આચાર્ય અને ડીનશ્રી

(आदिती/आएंड/५००/२१/२२) श्री नंभर (०२५६२) २५१४८५



INDIAN FARMERS FERTILISER COOPERATIVE LIMITED
KALOL UNIT

MOEF & CC (I.A.Division) ના નિર્દેશ મુજબની સુચના

વિષય : ઈફ્કો કલોલ એકમ, પો.કસ્તુરીનગર, જી.ગાંધીનગરના વિસ્તરણ/આધુનિકીકરણ માટેની પર્યાવરણીય મંજૂરી

ઈન્ડિયન ક્વોર્સ ફિલ્ડાઈઝર ડૉ-ઓપરેટીવ લિમિટેડ (ઇવકો)ના કલોલ એકમમાં પ્લોટ નં. ૭૧૨/૮૪૬, ૮૫૫, ૮૫૬ - સર્જિ, ૧૭ - ૩૭ - ધાનજ, રસ્તુનીનગર, કલોલ જી. માંધીનગર, ગુજરાત ખાતે એમોનિયા - ચુંથિયા સંકુલ આવેલ છે. ઇવકો- કલોલ એકમના "ફિલ્ડાઈઝર પ્લાન્ટ ના વિસ્તરણ/આધુનિકીકરણ" ની યોજના ને પર્યાવરણ, વન અને આબોહવા પ્રતીવર્તન મંત્રાલય, ભારત સરકાર ના પ્રસ્તાવ ક્રમાંક IA/GJ/IND/2/185904/2009 તારીખ ૧૪ ડિસેમ્બર ૨૦૨૦ અને F.No J-11011/60/2009-IA II (1) તારીખ ૧ ફેબ્રુઆરી એ ૨૦૨૧ દ્વારા મંજૂરી આપવામાં આવેલ છે. પર્યાવરણીય મંજૂરી પત્રની નકલ SPCB/MoEF&CC પાસે અને મંત્રાલય ની વેબસાઈટ <https://parivesh.nic.in> પર ઉપલબ્ધ છે.

ડી. જી. ઈનામદાર, પંરિષ્ઠ કાર્યકારી નિદેશક

ઈફ્કો કલોલ એકમ, પો.કસ્તુરીનગર, જી.ગાંધીનગર, ગુજરાત, પીન-૩૮૨૪૨૩

ફોન નં.: ૦૭૯-૨૩૨૮૨૦૦૫, ૨૩૨૮૨૦૦૩

ફોન : ૦૭૯-૨૩૨૮૧૦૨૦, ૦૨૭૬૪-૨૨૦૫૨, ઈ-મેલ: dginamdar@iffco.in
વેબસાઈટ: www.iffco.in

ઇન્ડો જર્મન ટૂલ રૂમ, અમદાવાદ

INDO GERMAN TOOL ROOM, AHMEDABAD

An ISO 9001 : 2015 Tool Room & Training Centre

યુવક/ યુવતીઓ માટે ઉચ્ચ ટેકનીકલ શિક્ષણ સાથે ઉત્તમ રોજગારી દ્વારા ઉજ્જવળ કારકીર્દીની તક

ઉજવણ કરાચીદોની તક

સિત સરકારના સુધ્ધ, તથા અને મધ્યમ ઉદ્યમ મંત્રાલય અને જર્મન સરકારના સહયોગ વડે કાર ખર્ચે આ સંઘા દ્વારા ગુજરાત સરકારના સહયોગથી અનુસૂચિત ખાતિ તથા ટિપ્પણી સુવલ-સુવલગી માટે ઉચ્ચ ટેકનીકલ શિક્ષણ દ્વારા રોજગાર અને સ્વરોજગારલક્ષી વિધિ તાલીમ કાર્યક્રમ ચલાવવામાં આવે છે.

કોર્સનું નામ	સમયગાળો	પ્રવેશ લાઘ્યકાલ
પોસ્ટ ગ્રેજ્યુએટ ડિપ્લોમા ઇન ટૂલ ડિઝાઇન એન્ડ કેડ કેમ (PGTDCC)	૧ ^{મું} વર્ષ	BE મીકેનિકલ / ઓટોમોબાઇલ / પ્લાસ્ટીક / પ્રોડક્શન
પોસ્ટ ડિપ્લોમા ઇન ટૂલ ડિઝાઇન એન્ડ કેડ કેમ (PDTDCC)	૧ વર્ષ	BE / Diploma - મીકેનિકલ / ઓટોમોબાઇલ / પ્લાસ્ટીક / પ્રોડક્શન
પોસ્ટ ડિપ્લોમા ઇન ઇન્ડસ્ટ્રીયલ ઓટોમેશન એન્ડ સોફ્ટવેર (PDIAR)	૧ વર્ષ	BE / Diploma - મીકેનિકલ / પ્રોડક્શન ઇલેક્ટ્રીકલ / ઇલેક્ટ્રોનિક્સ / ઇન્ફર્મેટીક્સ
કન્ડેન્સડ કોર્સ ઇન ટૂલ એન્ડ કાઇ મેકિંગ (CCTDM)	૧ વર્ષ	ધોરણ ૧૦ પાસ
સી.એન.સી. મશીનીંગ (સી.એન.સી. ઓપરેટર) (CCM)	૪ માસ	ITI ટર્નર / મશીનીંગ (ફક્ત ST તાલીમાર્થીઓ માટે)

કેન્ટ ST તાલીમાર્થીઓ માટે : તાલીમની ફી, રહેવા તથા જમવા અંગે નક્કી કરેલ રેતો મુજબની વ્યવસ્થાની ખર્ચ ગુજરાત સરકાર દ્વારા આપવામાં આવશે. તાલીમાર્થીઓ એ ફક્ત રૂ. ૧૦૦૦/- ભરવાના રહેશે.

SC તાલીમાર્થીઓ માટે ફક્ત તાલીમની ફી માફ રહેશે.

એડમીશનલ તેમજ વધુ વિગત માટે સંપર્ક કરો :

ઈન્ડો જર્મન ટલ ડમ. અમદાવાદ - ભારત સરકારની સંસ્થા

નોટ નં. ૫૦૦૩, ફેઝ-૪, ગુઆઈડીસી, મહેમદાવાદ રોડ, વટવા, અમદાવાદ-૩૮૨૪૪૫

મો. ૯૦૬૯૦૪૧૯૮૬, ૯૦૬૯૦૪૦૮૬૮, ૯૦૬૯૩૧૧૯૦૬

ઓનલાઇન જાહેર નિવેદા નં. ૧૩ સને ૨૦૨૦-૨૧
માર્ગ અને મકાન વિભાગ, ગુજરાત રાજ્ય

ગુજરાત રાજ્યના રાજ્યપાલશ્રી વતી કાર્યપાલક ઈજનેરશ્રી, પાટનગર યોજના વિભાગ નં. ૪, “બી” બ્લોક, પાટનગર યોજના ભવન, સેક્ટર નં. ૧૬, ગાંધીનગર-૩૮૨૦૧૬ ફોન નં. ૦૭૯-૨૩૨-૫૯૧૯૯, ૯૮ અને ૯૩ દ્વારા યોગ્ય લાખકાત પરાવતા ઈજનેરદારો પાસેથી

કન્સ્ટ્રક્શન ઓફ મલ્ટીસ્ટોરેડ, બિલ્ડીંગ ફોર સ્ટેટ લેવલ એન્ડ કોન્સ્ટ્રીટયુશનલ ઓફીસ એટ ગાંધીનગર (કર્મચોગી ભવન બ્લોક નં. ૩ પ્રોવાઈડીંગ એન્ડ લેઈંગ એક્ષપોસ્ટ આર.સી.સી. કીનીસ એન્ડ સીન્યેટીક પ્લાસ્ટર) જેની અંદાજિત કિંમત રૂ. ૪૧૮.૦૦ લાખ છે.

જે કામ ઈ-ટેન્ડરિંગ પદ્ધતિથી ઓનલાઈન માંગવામાં આવેલા છે. કામના ટેન્ડર ડોક્યુમેન્ટ તથા વિગતો આ વેબસાઈટ www.mbc.nprocure.com ઉપરથી તા. ૧૫/૦૨/૨૦૨૧ ના ૧૮:૦૦ કલાક સુધી જોવા મળી શકશે. તેમજ ભરી શકાશે.

આ કામો અંગેની વધારાની માહિતી વિગતવાર ઉપરોક્ત કચેરી તથા વેબસાઈટ પરથી મળી શકશે.

ઓનલાઈન ટેન્ડર અંગે અપલોડ કરવાની છેલ્લી તારીખ સુધીમાં આ કચેરી તરફથી કરવામાં આવેલ સુધારા/વધારા ઈજારદારશ્રીએ ધ્યાને લેવાના રહેશે અને ત્યારબાદ ભાવો ભરવાના રહેશે. આ બાબતે ઈજારદારશ્રીની અંગત જવાબદારી રહેશે.

माहिती/१६९८/२०-२१

ਪਸ਼ਚਿਮ ਰੇਲਵੇ

ઈન્ફોર્મેશન એક્ટ નિયંત્રક નં. એસ/૦૫/૨૦૨૧

તારીખ: 03.02.2021

ક્ર.ં	મુદ્દાનું સંક્ષિપ્ત વર્ણન	માત્રા	દી.ઓ.દી.
84	1૩ ટી યોગી બેઠક લીવર	૩૦૦ અદદ	15.02.2021
85	પિન કોર્ટ	2020 અદદ	15.02.2021
86	સર્કિલપ્ત 85 એક્સડબ્લેચ	191 અદદ	16.02.2021
87	એક્સ એસડ વી42 પી2.5 ગ્રીજ	684 ડિગ્રા	18.02.2021
88	ઓટોમેટિક સોપ ડિસ્પેન્સર	25 અદદ	18.02.2021
89	ક્રોમન પાઈપ ક્લેકેટ	150 અદદ	19.02.2021
90	ટાઈપ રિલે વીસીબી માટે કન્ટેક્ટર	13 અદદ	22.02.2021
91	સર્કિટ બ્રેકર મેન ક્રોમ્બેસર	54 અદદ	22.02.2021
92	સર્કિટ બ્રેકર ટ્રીસી	52 અદદ	22.02.2021
93	સર્કિટ બ્રેકર બેટરી ચાર્જર	27 અદદ	22.02.2021
94	ટેપ ચેન્જર માટે સબ ડિટ પીઓએચ-1	48 સેટ	22.02.2021
95	એલઈપી સિગનલ લાઈટીંગ પુનિટ ઈસપેક્ટ કુટ, રાંઠ અને કોલિંગ ઓન	331 અદદ	24.02.2021
96	એલઈપી સિગનલિંગ લાઈટ પુનિટ ઈસપેક્ટ રેડ, વેલો અને ગ્રીન	233 અદદ	24.02.2021
97	ગેપલર સાથે 3ફી-2ટી ઈકો મશીન	1 અદદ	24.02.2021
98	પાર્કિંગ બ્રેક સિસ્ટમ માટે પાર્કિંગ બ્રેક સિસ્ટમ-બર	107 અદદ	25.02.2021
99	સર્કિટ બ્રેકર ટ્રીસી સપ્લાય	61 અદદ	25.02.2021
100	કોર્પોરેટન ટી વાપર (19/2.10 પિપી) 65 વર્ગ મિમી	122500 મીટર	26.02.2021
101	એગ્રાપીટી મીટ સહ બેક રેસ્ટ	275 અદદ	26.02.2021
102	એપ્રાચારવીસી-2 ઈએમયુ રેક માટે આઈએમએસ રેક	9 અદદ	26.02.2021
103	ઈન્ડિગેન લેસ્યુ તથા ઈન્ડિગેનિયમ પુશ બટનનો સેટ	68 સેટ	26.02.2021
104	ગ્રીપર રેસ ટોર્ક આર્મ માટે સ્પ્રિંગ બ્લોક	580 અદદ	26.02.2021
105	હેન્ડલાઈટ માટે સ્વિચ	52 અદદ	26.02.2021
106	બીસીએનએ વેગન માટે ફ્લોર ગ્રોર	1132 અદદ	26.02.2021
107	સિસ્ટમીક લાઈટિંગ બોલ બેરીંગ 6305	184 અદદ	27.02.2021
108	મેટલાઈઝ્ડ કાર્બન ડાયોક્સાઇડ	746 અદદ	27.02.2021
109	સર્કિટ બ્રેકર સ્પેન્ડર બ્લોઅર ટીએપ	11 અદદ	27.02.2021
110	કાઉન્ટ ગ્રીપર કપલીંગ	8 અદદ	27.02.2021

પાંક 97 માટે ટાઇપ્લી: ઉમેદવાર આપૂર્ણકર્તાઓ સાથે જૂન પર બોલી - પૂર્વ બેઠક તા.રૂિપ: 09.02.2021 ના મપરોએ 1.00 કલાકે આપોજ્ઞત કરવાપાં આવશે. જૂન આઈડી 83682518410 છે તપાસવર્ત 9જ્ઞાજી છે. ઉપજુક રૂિલેતા www.ireps.gov.in પરરૂિ વિનિર્દશન તપાસ નિવિધનું વર્ણન પ્રાપ્ત રૂિ છે. કોઉપજા પ્રકારના રૂપરૂિકરૂા માટે રૂિલેતા શ્રી એસ.બી. મિશ્રા (કેઆઈડી સીએમએમ / એકમિન) નો 8004489769 ઉપર રૂપરૂિ રૂિ છે.

पर्यटन सुचना, छिमेकी, परीक्षीया निबंधरुतु तथा विस्तृत निविदा हरतु संभणित जाकादारी माटे महेस्वरानी करीने
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