



67th

ANNUAL REPORT 2021-2022

THE FERTILISER ASSOCIATION OF INDIA



AUDITORS

M/s. Lochan & Co., Delhi

REGISTERED OFFICE

The Fertiliser Association of India
FAI House, 10 Shaheed Jit Singh Marg
New Delhi - 110 067

CIN U85300DL 1955NPL002999

Tel : +91-11-26567144 , 46005204 Fax : +91-11-26960052
E.mail : secy@faidelhi.org Website : www.faidelhi.org

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BOARD OF DIRECTORS



K.S. Raju
Chairman, FAI
Chairman Emeritus, NFCL



Ajay S. Shiram
Emeritus Director, FAI
Chairman & Sr. Managing Director
DCM Shiram Ltd.



A. Vellayan
Emeritus Director, FAI
Chairman Coromandel
International Ltd.



P.S. Gahlaut
MD, IPL



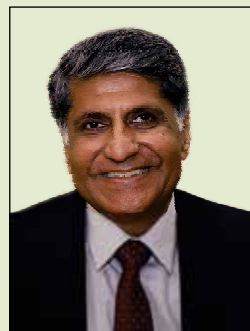
Rakesh Kapur
Jt. MD, IFFCO



P.K. Bansal
MD, NCDC
w.e.f. 21.07.2022



R.K. Chopra
MD, KRIBHCO Fertilizers Ltd.



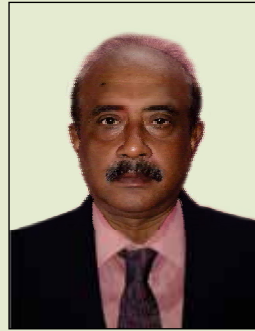
Rajan Chowdhry
MD, KRIBHCO



Virendra Nath Datt
CMD, NFL
upto 24.11.2021



Alok Gaur
COO, KFCL



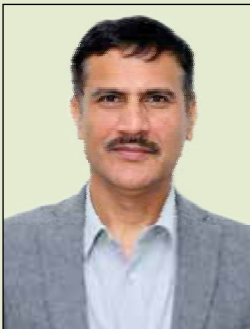
Ashim Kumar Ghosh
CMD, BVFCL
upto 24.11.2021



Sameer Goel
MD, Coromandel International Ltd.



Ashvini Hiran
MD & CEO, Indorama India Pvt. Ltd.



Pankaj Joshi
MD, GNFC



Sanjiv Kanwar
MD, Yara Ferts.India Pvt. Ltd.



K.K. Kaul
WTD, DCM Shriram Ltd.



Shailesh Khaitan
CMD
Khaitan Chems. & Ferts. Ltd.



N. Suresh Krishnan
MD, PPL



Gaurav Mathur
MD, CFCL



Manoj Mishra
MD, MFCL
w.e.f. 25.11.2021



S.P. Mohanty
CMD, BVFCL
w.e.f. 25.11.2021



S.C. Mudgerikar
CMD, RCF



Manish Nagpal
CEO, Greenstar Fertilizers Ltd.



S.K. Nayak
MD, NCDC
upto 21.07.2022



Rohit Pathak
CEO, Hindalco Industries Ltd.



Akshay Poddar
Director, ZAFL



D.S. Sudhakar Ramaiah
Director (Finance), PDIL
upto 22.12.2021



S.R. Ramakrishnan
WTD, SPIC



K. Prabhakar Rao
WTD, MCFL
upto 24.11.2021



C. Narasimha Reddy
VP&BU Head-Agri, JACPL



Kishor Rungta
CMD, FACT



Shubhabrata Saha
MD, MCFL
w.e.f. 25.11.2021



U. Saravanan
CMD, MFL



Nirlep Singh Rai
CMD, NFL
w.e.f. 25.11.2021



S.V. Varma
Sr. VP (Agri Business), GSFC
w.e.f. 21.07.2022



S.P. Yadav
ED (Agri Business), GSFC
upto 21.07.2022



Satish Chander
DG, FAI
upto 07.01.2022



Arvind Chaudhary
DG, FAI
w.e.f. 10.08.2022

PRINCIPAL OFFICERS OF FAI



S. Nand
Additional Director General



D.S. Yadav
Director (Publications & PR)



R.K. Tewatia
Director (Agricultural Sciences)



Naresh Prasad
Director (Marketing)



D. Ramakrishnan
Additional Director
Secretary & Treasurer



A.C. Dubey
Additional Director
(Economics)



Manish Goswami
Chief (Technical)



Parag Dass Saxena
Chief (Marketing)



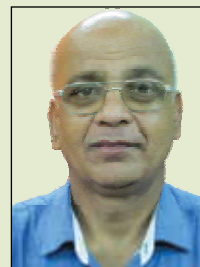
Kuldeep Sati
Chief (Statistics & IT)



Kabita Debnath Das
Chief (Documentation & Information)



Y.V.N. Murthy
Regional Head (South)



D.P. Patra
Regional Head (East)

NOTICE OF ANNUAL GENERAL MEETING

THE FERTILISER ASSOCIATION OF INDIA

(Company Limited by Guarantee)

Licensed Under Section 26 of the Indian Companies Act, 1913 corresponding to
Section 8 of the Companies Act 2013:

Regd. Office: FAI House, 10, Shaheed Jit Singh Marg, New Delhi 110067, INDIA

CIN: U85300DL 1955NPL002999

Phone No. : 011-46005204, 011-26567144, Email: secy@faidelhi.org, website: www.faidelhi.org

Notice is hereby given that pursuant to the provisions of the Companies Act, 2013 and MCA circular dated 05.05.2020 read with other circulars dated 08.04.2020, 13.04.2020, 31.12.2020, 13.1.2021 and 05.05.2022, the Company is intending to conduct the 67th Annual General Meeting (AGM) of the Members of The Fertiliser Association of India (FAI) on Friday, the 9th September, 2022 at 11.30 am through Video Conference (VC) in accordance with the provisions of aforesaid circulars to transact the following business:

ORDINARY BUSINESS

1. To receive, consider and adopt the Audited Financial Statements of the Association including the Balance Sheet as at the 31st March, 2022 and Income and Expenditure Account for the financial year ended on the 31st March, 2022 and the Report of the Board of Directors and Auditors thereon.

2. To re-appoint Directors of the Association:

In accordance with Section 152 and any other applicable provisions of Companies Act, 2013 and Article 83 of the Articles of Association of FAI, the following Directors retire by rotation and being eligible and qualified offer themselves for re-appointment in accordance with Article 85 of the Articles of Association of FAI:

- (i) Mr. K. S. Raju (DIN: 00008177) representative of M/s Nagarjuna Fertilizers and Chemicals Limited (NFCL), to represent the interests of nitrogenous and complex fertilizer manufacturers.
- (ii) Mr. Rakesh Kapur (DIN: 00007230) representative of M/s Indian Farmers Fertiliser Cooperative Limited (IFFCO), to represent the interests of nitrogenous and complex fertilizer manufacturers.
- (iii) Mr. N. Suresh Krishnan (DIN:00021965) representative of M/s Paradeep Phosphates Limited (PPL) to represent the interests of nitrogenous and complex fertilizer manufacturers.
- (iv) Mr. Sameer Goel (DIN: 07298938) representative of M/s Coromandel International Limited to represent the interests of nitrogenous and complex fertilizer manufacturers.
- (v) Mr. S. R. Ramakrishnan (DIN: 00120126) representative of M/s Southern Petrochemical Industries Corporation Ltd, (SPIC), to represent the interests of nitrogenous and complex fertilizer manufacturers.
- (vi) Mr. Kishore Rungta (DIN 00231106) representative of The Fertilizers and Chemicals Travancore Limited (FACT)

to represent the interests of nitrogenous and complex fertilizer manufacturers..

- (vii) Mr. R. K. Chopra, (DIN: 06969911) representing M/s Kribhco Fertilizers Limited (KFL) to represent the interests of nitrogenous and complex fertiliser manufacturers.
- (viii) Mr. Sanjiv Kanwar, (DIN:03379055) representing M/s Yara Fertiliser India Pvt. Ltd to represent the interests of nitrogenous and complex fertilizer manufacturers.

3. Appointment of Statutory Auditors

To re-appoint M/s Lochan & Co., Chartered Accountants as Statutory Auditors of the Association and in this connection, to pass, with or without modification(s), the following resolution as an Ordinary Resolution.

“RESOLVED that pursuant to the provisions of Section 139, 141 and other applicable provisions, if any, of the Companies Act, 2013 & rules made thereunder, M/s Lochan & Co., Chartered Accountants (Firm Registration No.008019N), the retiring Auditors of the Company, be and are hereby re-appointed as Statutory Auditors of the Company to hold office from the conclusion of this Annual General Meeting (‘AGM’) until the conclusion of the sixth AGM (72nd) of the Company, at a remuneration as may be determined by the Board of Directors of the Company and reimbursement of all out-of-pocket expenses in connection with the audit of the accounts of the Company”.

SPECIAL BUSINESS

4. Appointment of Directors against existing vacancies

- (i) To consider and, if thought fit, to pass, with or without modification(s) the following Resolution as an Ordinary Resolution:

“RESOLVED THAT pursuant to the provisions of Section 149, 152 and other applicable provisions, if any of the Companies Act, 2013 and the Rules framed thereunder, Mr. Manoj Mishra (DIN: 06408953) representing M/s Matix Fertilizers & Chemicals Limited, who was appointed by the Board of Directors of FAI w.e.f. 25th November, 2021, as an Additional Director and who holds office upto the date of this Annual General Meeting, be and is hereby appointed as a Director to represent the interests of nitrogenous and complex fertilizer manufacturers, liable to retire by rotation.

- (ii) To consider and, if thought fit, to pass, with or without modification(s) the following Resolution as an Ordinary Resolution:

“RESOLVED THAT pursuant to the provisions of Section 149, 152 and other applicable provisions, if any of the Companies

Act, 2013 and the Rules framed thereunder, appointment of Mr. S. C. Mehta (DIN: 00128204) representative of M/s Smartchem Technologies Limited (STL), who was appointed by the Board of Directors of FAI w.e.f. 21.07.2022 as an Additional Director and who holds office upto the date of this Annual General Meeting, be and is hereby appointed as a Director to represent the interest of nitrogenous and complex fertilizer manufacturers, liable to retire by rotation.

5. Ratification of Appointment of Directors in Casual Vacancy:

- (i) To consider and, if thought fit, to pass, with or without modification(s) the following Resolution as an Ordinary Resolution:

“RESOLVED THAT pursuant to the provisions of Section 149, 152, 161(4), and other applicable provisions, if any of the Companies Act, 2013 and the Rules framed thereunder, the appointment of, Mr. S. P. Mohanty (DIN: 05336787) representing M/s Brahmaputra Valley Fertilizer Corporation Limited (BVFCL), by the Board of Directors of FAI w.e.f. 25.11.2021 to fill the casual vacancy caused due to the resignation of Mr. A.K. Ghosh and who holds office on the date of this Annual General Meeting, be and is hereby approved.”

- (ii) To consider and, if thought fit, to pass, with or without modification(s) the following Resolution as an Ordinary Resolution:

“RESOLVED THAT pursuant to the provisions of Section 149, 152, 161(4), and other applicable provisions, if any of the Companies Act, 2013 and the Rules framed thereunder, the appointment of, Mr. Shubhabrata Saha (DIN: 03036747) representing M/s Mangalore Chemicals & Fertilizers Limited (MCFL), by the Board of Directors of FAI, w.e.f. 25.11.2021 to fill the casual vacancy caused due to the resignation of Mr. K. Prabhakar Rao and who holds office on the date of this Annual General Meeting, be and is hereby approved.”

- iii) To consider and, if thought fit, to pass, with or without modification(s) the following Resolution as an Ordinary Resolution:

“RESOLVED THAT pursuant to the provisions of Section 149, 152, 161(4), and other applicable provisions, if any of the Companies Act, 2013 and the Rules framed thereunder, the appointment of, Mr. Nirlep Singh (DIN: 08725698) representing M/s National Fertilizers Limited (NFL), by the Board of Directors of FAI w.e.f. 25.11.2021 to fill the casual vacancy caused due to the resignation of Mr. V. N. Datt and who holds office on the date of this Annual General Meeting, be and is hereby approved.”

- iv) To consider and, if thought fit, to pass, with or without modification(s) the following Resolution as an Ordinary Resolution:

“RESOLVED THAT pursuant to the provisions of Section 149, 152, 161(4), and other applicable provisions, if any of the Companies Act, 2013 and the Rules framed thereunder, the appointment of, Mr. Pankaj Kumar Bansal (DIN: 05197128) representing M/s National Co-operative Development Corporation (NCDC), by the Board of Directors of FAI w.e.f. 21.07.2022 to fill the casual vacancy caused due to the resignation

of Mr. Sundeep Kumar Nayak and who holds office on the date of this Annual General Meeting, be and is hereby approved.”

- v) To consider and, if thought fit, to pass, with or without modification(s) the following Resolution as an Ordinary Resolution:

“RESOLVED THAT pursuant to the provisions of Section 149, 152, 161(4), and other applicable provisions, if any of the Companies Act, 2013 and the Rules framed thereunder, Mr. the appointment of, S. V. Varma (DIN: 08589717) representing M/s Gujarat State Fertilizers and Chemicals Limited (GSFC), by the Board of Directors of FAI w.e.f. 21.07.2022 to fill the casual vacancy caused due to the resignation of Mr. S.P. Yadav and who holds office on the date of this Annual General Meeting, be and is hereby approved.”

6. Appointment of Director General (DG)

To consider and, if thought fit, to pass, with or without modification(s) the following Resolution as an Ordinary Resolution:

“RESOLVED THAT in pursuant to the provisions of Section 196 of the Companies Act, 2013 and rules made thereunder, as amended from time to time, and in accordance with Schedule V of Companies Act, 2013 and all applicable provisions and guidelines for the managerial remuneration issued by the Central Government from time to time, the Company hereby accords its consent and approval to the appointment of Mr. Arvind Chaudhary (DIN:0009582917) as Director General, designated as Managing Director under the Companies Act, 2013, for a period of three years effective from 10th August, 2022 on the terms and conditions as approved by the Board of Directors of FAI at its meeting held on 14th March 2022 as given in the explanatory note in the notice convening this Annual General Meeting”.

7. a) Assessment of dues for the year 1st April, 2023 to 31st March, 2024 as follows:

Sl. No.	Member Category	Proposed dues
(i)	Associate Members	INR 20,000/-*
(ii)	Overseas Associate Members	US \$ 2000/-*
(iii)	Technical & Professional Associate Associate Members	INR 500/-*

*Plus applicable GST.

- b) To consider and adopt the budget of the Association for the year 1st April, 2023 to 31st March, 2024.

New Delhi
19th August, 2022

By Order of the Board
S/d
D. Ramakrishnan
Secretary & Treasurer

NOTES

1. The Explanatory statement pursuant to Section 102(1) of the Companies Act, 2013 with respect to Special Business listed in terms items 4 to 7 of the Notice is annexed hereto and forms part of this Notice.
2. In view of the outbreak of COVID-19 pandemic, social distancing measures are a pre-requisite and in terms of Ministry of Corporate Affairs (“MCA”) Circular No. 20/2020 dated 5th May, 2020 read with Circular 14/2020 dated 8th April, 2020, Circular 17/2020 dated 13th April, 2020 (“MCA Circulars”), 08.04.2020, 31.12.2020, 13.1.2021 and 5th May, 2022, physical presence of the Members at common venue of Annual General Meeting (AGM) is not mandatory and being conducted through Video Conference (“VC”). The deemed venue for the AGM shall be the Registered Office of the Company.
3. The Members are hereby informed that pursuant to the problems in the postal services in the Country and in compliance with the aforementioned circulars, the notices of virtual AGM shall be sent to all the members through email who have registered the same with the Company. Please note that members who do not register their email addresses shall not be able to receive notice of AGM and hence shall not be able to participate in the Meeting. The Notice of AGM, Auditors Report, Audited Balance Sheet, Income & Expenditure A/C and Budget for the year 2023-24 are also be available on the website of the Company at www.faidelhi.org and by clicking the documents name given in the email.
4. In order to enable the Company to comply with MCA circulars issued for holding AGM via VC and to participate in the green initiative in Corporate Governance the members who have not yet registered their e-mail ids with the Company may contact at Mob No 9871383782, on (secy@faidelhi.org) or (01146005204) for registering their e-mail ids.
5. Since the ensuing AGM is being held pursuant to the MCA Circulars through VC which does not require physical attendance of Members at the AGM, the facility to appoint proxy by the Members will not be available for this AGM and therefore, Proxy Form and Attendance Slip are not annexed to this Notice.
6. Members attending the AGM through VC will be counted for the purpose of reckoning the quorum under Section 103 of the Act.
7. Corporate Members are required to send a scanned copy (PDF/ JPG Format) of its Board or governing body Resolution/Authorization etc., authorizing its representative to attend the AGM through VC on its behalf and to vote thereat by show of hands. The said Resolution/Authorization shall be sent by email to the Company at secy@faidelhi.org.
8. Members may send their questions in advance mentioning their name email id, mobile number and Membership details. The same will be replied by the company suitably.
9. Relevant documents referred to in this Notice are available for inspection electronically without any fee by the Members on all business days (except Saturday, Sunday and Public Holidays) upto the date of AGM. The details of Directors, Key Managerial Personnel and their shareholding maintained under Section 170 of the Act and the Register of Contracts and Arrangements, in which Directors are interested, maintained under Section 189 of the Act, will be available for inspection electronically by the members during the AGM. Members seeking to inspect such documents may send request from their email id registered with the Company to the Company at secy@faidelhi.org.
10. Since the AGM will be held through VC/OAVM, the route map is not annexed with the Notice.
11. Voting at AGM
Every Active Member present in the Meeting shall have one vote by show of hands. The Company shall be providing the facility of voting through Show of Hands during the meeting as provided by the Articles of Association of FAI. The members shall raise their hand when the Chairman requests the member for vote on the particular business.
12. Associate Members, Overseas Associate Members, Technical and Professional Associate Members shall not be entitled to any voting rights but shall be entitled to receive notice and to be present at the Meeting of the Association.

PROCEDURE FOR JOINING THE AGM THROUGH VC i.e WEBEX:

1. The Company is providing VC/OAVM facility to its Members for participating at the AGM.
 - a) Members will be able to attend the AGM through VC at the link <https://thefertiliser.webex.com/thefertiliser/j.php?MTID=m1e722406b0b2e6dcl1631822d5e07ffb> Go to the email in which the link is received and click the link given in your email and join the Meeting by giving i) Your Name with Company’s Name and ii) Email id.
 - b) Facility to join the meeting shall be opened 30 minutes before the scheduled time of the AGM and shall be kept open throughout the proceedings of the AGM.
 - c) Members who need assistance before or during the AGM can contact Mr. Kuldeep Sati, at email id; stat@faidelhi.org. or call at 9818862585/Mr. Ajay Kumar at his Mobile No. 9350006750/ Mr. Ajendra Bhargav at email: it@faidelhi.org or Call 7042400122
 - d) Members who would like to express their views or ask questions during the AGM may do so by sending their queries on e-mail id of company secy@faidelhi.org.

EXPLANATORY STATEMENT

4. Appointment of Directors against existing vacancies:

- (i) Mr. Manoj Mishra (DIN: 06408953) representing M/s Matix Fertilizers & Chemicals Limited, was appointed by the Board of Directors of FAI in its meeting held on 25th November, 2021, as an Additional Director and he holds office up to the date of this Annual General Meeting. The Board of FAI in its meeting held on 21.7.2022 recommended that he could be inducted in this Annual General Meeting, as a Director to represent the interest of nitrogenous and complex fertilizer manufacturers, liable to retire by rotation.

None of the Directors except Mr. Manoj Mishra himself is concerned or interested in the resolution.

- (ii) Mr. S. C. Mehta (DIN: 00128204) representative of M/s Smartchem Technologies Limited (STL) was appointed by the Board of Directors of FAI in its meeting held on 21.07.2022 as an Additional Director and he holds office up to the date of this Annual General Meeting. The Board also recommended that he could be inducted as a Director on the Board of FAI as a Director on the Board of FAI to represent the interest of nitrogenous and complex fertilizer manufacturers, liable to retire by rotation.

None of the Directors except Mr. S. C. Mehta himself is concerned or interested in the resolution.

5. Ratification of Appointment of Directors in Casual Vacancy:

Members are hereby apprised that pursuant to the provisions of section 161(4) of the Companies Act, 2013 if the office of any director appointed by the company in general meeting is vacated before his term of office expires in the normal course, the resulting casual vacancy may, in default of and subject to any regulations in the articles of the company, be filled by the Board of Directors at a meeting of the Board which shall be subsequently approved by members in the immediate next general meeting, provided that any person so appointed shall hold office only up to the date up to which the director in whose place he is appointed would have held office if it had not been vacated.

Notice Item No.5(i)

Mr. S. P. Mohanty (DIN: 05336787) representing M/s Brahmaputra Valley Fertilizer Corporation Limited (BVFCL), was appointed as a Director in casual vacancy by the Board of Directors at its meeting held on 25.11.2021 in place of Mr A K Ghosh. His appointment shall be subsequently approved by members in the immediate next general meeting as per Section 161(4) of the Companies Act, 2013. A person who has been appointed as Director in casual vacancy holds office only up to the date up to which the Director in whose place he is appointed would have held office if it had not been vacated.

None of the Directors except Mr. S. P. Mohanty himself is concerned or interested in the resolution.

Notice Item No.5(ii)

Mr. Shubhabrata Saha (DIN: 03036747) representing M/s Mangalore Chemicals & Fertilizers Limited (MCFL), was appointed as a Director in casual vacancy by the Board of Directors at its meeting held on 25.11.2021 in place of Mr K Prabhkar Rao. His appointment shall be subsequently approved by members in the immediate next general meeting as per Section 161(4) of the

Companies Act, 2013. A person who has been appointed as Director in casual vacancy holds office only up to the date up to which the Director in whose place he is appointed would have held office if it had not been vacated.

None of the Directors except Mr. Shubhabrata Saha himself is concerned or interested in the resolution.

Notice Item No.5(iii)

Mr. Nirlep Singh (DIN: 08725698) representing M/s National Fertilizers Limited (NFL), was appointed as a Director in casual vacancy by the Board of Directors at its meeting held on 25.11.2021 in place of Mr. V. N. Datt. His appointment shall be subsequently approved by members in the immediate next general meeting as per Section 161(4) of the Companies Act, 2013. A person who has been appointed as Director in casual vacancy holds office only up to the date up to which the Director in whose place he is appointed would have held office if it had not been vacated.

None of the Directors except Mr. Nirlep Singh Rai himself is concerned or interested in the resolution.

Notice Item No.5(iv)

Mr. Pankaj Kumar Bansal (DIN: 05197128) representing M/s National Co-operative Development Corporation (NCDC), was appointed as a Director in casual vacancy by the Board of Directors at its meeting held on 21.07.2022 in place of Sandeep Kumar Nayak. His appointment shall be subsequently approved by members in the immediate next general meeting as per Section 161(4) of the Companies Act, 2013. A person who has been appointed as Director in casual vacancy holds office only up to the date up to which the Director in whose place he is appointed would have held office if it had not been vacated.

None of the Directors except Mr. Pankaj Kumar Bansal himself is concerned or interested in the resolution.

Notice Item No.5(v)

Mr. S. V. Varma (DIN: 08589717) representing M/s Gujarat State Fertilizers and Chemicals Limited (GSFC), was appointed as a Director in casual vacancy by the Board of Directors at its meeting held on 21.07.2022 in place of Mr. S. P. Yadav. His appointment shall be subsequently approved by members in the immediate next general meeting as per Section 161(4) of the Companies Act, 2013. A person who has been appointed as Director in casual vacancy holds office only up to the date up to which the Director in whose place he is appointed would have held office if it had not been vacated.

None of the Directors except Mr. S. V. Varma himself is concerned or interested in the resolution.

6. Appointment of Director General (DG)

Mr. Satish Chander, resigned as DG, FAI w.e.f.7th January 2022. The Board of Directors of FAI in its meeting held on 7th January, 2022 after accepting his resignation, constituted a Search Committee to select a suitable person for the post of DG, FAI. On the recommendation of the Committee, the Board in its meeting held on 14th March, 2022, unanimously decided to appoint Mr. Arvind Chaudhary, (DIN: 0009582917) as Director General of the Association and also approved the terms and conditions of his appointment. The Board also authorized Mr. K.S. Raju, Chairman, FAI to issue the Offer Letter to Mr. Arvind Chaudhary. After

accepting the Offer, Mr. Arvind Chaudhary joined his duties as DG, FAI, w.e.f. 10th August 2022. The terms and conditions approved by the Board are given below:

1. Tenure

Initial tenure will be for 3 years with effect from the date of joining his duties subject to termination at three months' notice on either side or payment of Basic Pay in lieu thereof. He will be on probation for an initial period of one year. His performance will be evaluated by the Board at the end of the first year for confirmation for the remaining term.

2. Basic Pay

a) He will be placed in the grade of Rs. 2,00,000-3,70,000 (as applicable to CMD(A) of CPSEs) with the starting Basic Pay of Rs. 2,00,000/- with annual increment of 3% of Basic Pay.

b) Allowances

In addition to Basic Pay, he will be entitled to following allowances:

i) DA on Industrial Pattern which is fixed quarterly depending upon the All India Consumer Price Index as applicable in the Public Sector from time to time.

ii) He will be entitled to annual ex-gratia payment on the same basis as admissible to other FAI Officers/Staff.

3. Perquisites

a) Accommodation

In case he makes his own arrangement for accommodation, then 24% of his Basic Pay will be given to him as House Rent Allowance.

or

He can avail a leased unfurnished accommodation. The Lease Rental ceiling after recovering 7.5% of Basic Pay (House Rent Recovery) shall not exceed net applicable HRA amount. This prerequisite will be evaluated as per Income Tax Rules.

b) Transport

A Chauffeur driven car shall be provided for official as well as for private use. It would be evaluated as per Income Tax Rules.

c) Medical Expenses

Actual reasonable expenses for self, spouse and dependent children will be reimbursed on production of bills, subject to a maximum of one month's Basic Pay in a block of 3 (Three) years. Group Mediclaim coverage will be provided on the terms and conditions as applicable to FAI staff Members.

In case, due to any exigency, the medical expenses exceed the limit, the approval of the Board will be necessary for such reimbursement.

d) Leave

As may be decided from time to time. Currently, Casual Leave (CL) of 12 days, Medical Leave (ML) of 15 days and Privilege Leave (PL) of 33 days per annum are allowed. Unavailed PL can be encashed upto a maximum limit of 300 days at the time of retirement/separation.

e) Leave Travel Concession (LTC)

For self, spouse and dependent children in Indian Railways' AC 1st

Class or by Air (Economy Class) anywhere in India once in a calendar year.

f) Personal Accident Insurance Cover

The Annual Premium of which will not exceed Rs.1000 per annum.

g) Reimbursement of Club Fees

Only annual fee upto 2 clubs will be reimbursed. Admission fee or other expenses would not be covered.

h) Official Entertainment

This will be covered on actual on production of bills.

i) Telephone/Mobile Bills

One telephone at the residence and a mobile phone would be provided at the company's cost. Monthly bills for official calls will be paid by FAI and personal long distance calls will be charged.

4. Retirement Benefits

a) Employer's Contribution to PF : 12% of Basic + D.A.

b) Superannuation Benefits : 15% of Basic + D.A. contributed by employer as per FAI Superannuation Scheme with LIC

c) Gratuity : Half month's salary including D.A. for each Year of service as per Gratuity Act.

He is designated as Managing Director "MD" as per provisions of section 196 read with relevant rules under the Companies Act, 2013. His appointment and the terms and conditions of his appointment, requires the approval of Members of the Association by an Ordinary Resolution.

None of the Directors except Mr. Arvind Chaudhary is interested in the resolution.

Notice Item No. 7

(a) The assessment dues for Associate, Overseas Associate and Technical and Professional Associate Members have to be determined by the Board and approved at the AGM under Article 19 of the Articles of Association of FAI. The proposed rates of membership subscription for the year 2023-24 have been approved by the Board on 21st July, 2022 and the same are given in the AGM Notice.

(b) The Budget for the year 2023-24 is placed before the General Body for ratification after approval of the Board of Directors in accordance with clause 18 of the Articles of Association. The proposed Budget has been approved by the Board in its meeting held on the 21st July, 2022. The approved summary budget is placed at Annexure 7(b) to this Notice.

The Board commends the Resolutions set out at Item no. 7 of the Notice for approval by the Members.

The Fertiliser Association of India

Budget for the year 1st April, 2023 to 31st March, 2024

(Rupees in lakhs)		(Rupees in lakhs)	
A INCOME		B EXPENDITURE	
ANNUAL FEES		(a) Personnel	
Active members	240.66	1. Director General	57.87
Associate members (National)	33.00	2. Central Office	556.59
Overseas Associate members	25.00	3. Eastern Region	41.80
Technical & Professional Associate Members	2.00	4. Southern Region	49.42
Website Receipts	14.00	5. Western Region	37.54
ENTRANCE FEE		6. Northern Region	13.33
Active Members	0.02	TOTAL	756.55
Associate Members	0.05	(b) OTHER EXPENSES	
MISCELLANEOUS INCOME		1 Administrative	
1 Income from Advertisement Sale & Subscription to Journals & Books		i) Central	172.25
a) Central	53.81	ii) Regional	12.22
b) Regional	21.00	2 Publications	
2 Surplus of Training Courses (Excluding Overhead Costs)	50.00	i) Central	41.30
3 Interest on Deposit & Staff Advance	132.00	ii) Regional	8.60
4 Income from Annual Seminar	220.00	3 Liability for DDA & MCD Taxes etc.	17.00
5 Property Income	115.00	TOTAL	251.37
6 Miscellouns Receipts	2.00	GRANT TOTAL (a +b)	1007.92
TOTAL	908.54	INCOME - EXPENDITURE A - B	-99.38
		C CAPITAL EXPENDITURE BUDGET	
		i) Central	23.00
		ii) Regional	2.00
			25.00

DIRECTORS' REPORT

Executive Summary

The Board of Directors has pleasure in presenting 67th Annual Report of the Fertiliser Association of India along with the Audited Statement of accounts for the financial year ended on 31st March, 2022.

Southwest monsoon during the past three consecutive years has been very good. In 2021, southwest monsoon arrived over Kerala coast on 3rd June, 2021 after a delay of two days. Overall rainfall was normal at 99% of long period average, though there were issues of month-wise distribution of rains.

There was a massive increase of 10.8% in consumption of fertilizer nutrients in 2020-21 over 2019-20. Year 2021-22 marked a beginning with adequate inventory of fertilizers in different distribution channels. Production of fertilizers was marginally up but import was down during the year. Further, consumption of fertilizer nutrients is estimated at 29.80 million MT during 2021-22 showing a decline of 8.4% over 2020-21. However, the average out figures of consumption of fertilizer nutrients for 2020-21 and 2021-22 showed a positive growth over 2019-20.

Sown area under *kharif* crops was marginally lower but in *rabi*, it was higher than previous year. As per the 3rd advanced estimates, food grain production touched a record level of 314.5 million tonnes in 2021-22. Production of oilseeds and sugarcane also increased during the year.

FAI continued to take up the issues faced by fertilizer industry with governments at centre and states. The issues were taken up related to but not limited to pricing and subsidy policies, budget allocation, timely payment of subsidy and freight claims, issues under FCO, formulation of Integrated Plant Nutrition Management Act, Energy Conservation Act and Plastic Waste Management Rules.

The issue of minimum fixed cost continued to be followed up during the year. It was highlighted that this issue did not only impact the viability of 3 low cost urea units with annual capacity of 4.3 million MT, but it also impacted additional production of 4 million MT beyond RAC, which is linked to minimum fixed cost. The issue remained under consideration of the government.

Further, there was need for further increase in fixed cost for urea units as the same has increased significantly over 2002-03 and also over the level currently being reimbursed. FAI has been pursuing for one-time increase in fixed cost to address the past increases and linking it to an appropriate cost index for taking care of future increases without going into complex time taking analysis of detailed cost data of individual units. FAI also continued to pursue for payment of differential fixed cost arising due to revision in fixed cost after implementation of Modified NPS-III policy for period 2014-15 onwards. This entitled urea units to get minimum fixed cost of Rs.1635 per tonne instead of Rs.1285 per tonne earlier on production beyond RAC. These differential payments were cleared during the year.

Timely processing of quarterly and annual escalation claims for urea assumed more significance during 2021-22 due to rising gas prices. In the beginning of the year, 2021-22, FAI made an appeal to Department of Fertilizers(DOF) for expediting pending annual escalation claims for 2019-20, quarterly escalation claims for the 2nd and 3rd quarter of 2020-21 and annual claims for 2020-21. Annual escalation claims for 2019-20 were notified during 2021-22. Again, during the last quarter of financial year 2021-22, FAI requested for processing of escalation claims for 3rd quarter *i.e.* October – December, 2021 and also to allow adhoc increase for the 4th quarter (January – March, 2022) to provide some relief from sharp rise in pool price of gas. However, annual claims for 2020-21 and 2021-22 are still pending.

A meeting of industry representatives was held on 13th September, 2021 under the Chairmanship of the Secretary (Fertilizers) to discuss various issues of Urea sector wherein it was decided to constitute a Committee on the subject. Accordingly, a Committee on urea policy has been constituted on 20th September, 2021 under the Chairmanship of the Joint Secretary (NA), DOF (In charge of Urea Policy) and members from the industry and FAI. The Committee had its first meeting on 7th October, 2021 wherein among other things, a Sub-committee was constituted. The Sub-committee also had its first meeting on 3rd November, 2021. The Sub-committee has submitted the draft report to DOF. The deliberations of the Committee and the Sub-committee are continuing.

The government extended the NBS rates of P&K fertilizers applicable for 2020-21 for the next year 2021-22 on 9th April, 2021 till further orders. These rates were grossly inadequate in view of sharp rise in international prices of fertilizers and raw materials which were brought to the notice of the government. Subsequently, DOF notified revised rates of subsidy on 20th May, 2021 applicable from date of notification till 31st October, 2021. The revised per kg subsidy rate on phosphate (P) increased from Rs.14.888 to Rs.45.323. NBS rates for N, K and S remained unchanged at previous year's level putting pressure on manufacturers of complex fertilizers.

FAI highlighted the need for further increase in NBS subsidy rates of all the nutrients in view of sharp rise in international prices of P&K fertilizers and raw materials. DOF notified revised rates of subsidy for *rabi* 2021-22 on 13th October, 2021. This extended the rates of subsidy for N, P, K and S notified in May 2021 for further period upto March, 2022. Additional subsidy of Rs.8769 per tonne on DAP and Rs. 2000 per tonne each on 20-20-0-13, 10-26-26-0 and 12-32-16 grades were also allowed for *rabi* 2021-22. In view of continuously rising international prices, the government also assured of compensating the industry for losses while requesting to maintain adequate availability. The quantum of compensation remained under consideration of DOF.

As the rise in international prices of fertilizers and raw materials continued further, DOF notified increased rates of subsidy for all the four nutrients N, P, K and S for *khariif* 2022-23 on 27th April, 2022. Rates of subsidy on N, P, K and S for *khariif* 2022 are Rs. 91.96, Rs. 72.74, Rs. 25.31 and Rs. 6.94 per kg, respectively. This corrected the distortion in subsidy between DAP and complex fertilizers. Potash derived from Molasses (PDM) was also included in the NBS Scheme. However, SSP was not allowed this increased rate of subsidy.

FAI also continued to follow up the issue of inclusion of taxes likes GST, VAT, etc. in computation of reasonableness of profit/MRP for early decision which is under consideration of the DOF.

Government has constituted an Expert Committee for P&K sector to consider issues like price trends, demand supply, NBS subsidy rates, reasonableness of MRP, etc. The scope of differential subsidy for imported and indigenous P&K fertilizers, strategies for improving competitiveness of domestic manufacturing, securing rock phosphate from global

market on long-term basis and promotion of balance fertilization are also part of the mandate for this Committee. Aggregator model for SSP and guidelines for marketing arrangements are also included in terms of reference.

FAI has been regularly highlighting the need for adequate budget allocation and timely payment of subsidy. Government allocated Rs.79,530 crore for the year 2021-22 in BE. But, this was subsequently increased to Rs.1,40,122 crore in the RE.

The budget allocation for 2022-23 has also been increased by Rs. 1,10,000 crore over and above the BE of Rs.1,05,222 crore to insulate farmers from continuous sharp rise in international prices of fertilizers and raw materials. With this, total allocation for 2022-23 stands at Rs. 2,15,222 crore.

The Hon'ble Supreme Court has given a judgment disallowing levy of IGST on Ocean freight relating to CIF import contracts on reverse charge basis. This is a welcome development, although the Central Government is yet to implement the order.

FAI is pursuing four court cases on behalf of the members. These include (i) reimbursement of remaining 50% losses suffered on sale of bonds issued to fertilizer companies in lieu of cash, (ii) payment of interest on delayed payment of subsidy and freight bills, (iii) recovery of additional cost due to non-recognized input taxation (ACTN) prior to 1st April, 2011, and (iv) reimbursement of marketing margin on KG-D6 gas for past period. FAI continued to pursue these cases including follow up and providing necessary inputs to FAI counsels. However, not much progress could be made in these cases during the year due to repeated re-listing on account of COVID related restrictions.

FAI has been representing to the Bureau of Energy Efficiency (BEE), Ministry of Power, directly and also through the DOF for exclusion of fertilizer industry from the Perform achieve and Trade (PAT) of BEE scheme till 2025 as the objective of energy efficiency is already inbuilt in the existing pricing policy for fertilizer sector. The suggestion of FAI was accepted by the Sectoral Expert Committee of the BEE. The final notification/order in this regard from the BEE is awaited but we are hopeful that there would be relief to the industry from obligations to meet energy saving targets under PAT till 2025. The BEE will again review the situation in 2025 and take decision after consulting industry.

In another initiative to boost energy efficiency, the BEE mooted a proposal for energy intensive industries including fertilizer to switch from captive power to grid based power. FAI contested the proposal and highlighted that the captive power generation in fertilizer industry is highly efficient due to co-generation of steam and power. Further, there is a need for reliable source of power due to continuous operation and high cost of breakdown. Our views were considered and it was concluded that the switch from captive to grid power in case of fertilizer industry would not be viable.

FAI has been regularly representing to the MOEFCC, CPCB and DOF on the issues related to the implementation of provisions of Extended Producer Responsibility (EPR) under Plastic Waste Management (PWM) Rules. The final notification of the MOEFCC on EPR in February 2022 addressed many issues of the industry. FAI has represented to the CPCB on issues related to standard operating procedure for utilization of ETP sludge in the manufacture of complex /NPK plants. The issue will be put up to the Technical Expert Committee of the CPCB. We are hopeful of a positive outcome.

FAI has been representing industry in various committees of Bureau of Indian Standards (BIS). FAI prepared a Guide for Treatment and Disposal of Effluents of Fertilizer Industry which has been accepted and published by the BIS in January 2022. It was selected the Standard of the month for June 2022. The document would help to disseminate information about best practices followed by the industry in the area of effluent management.

Safety in plants is always an area of focus for the industry. FAI brought out a status paper on safety performance of the fertilizer industry for the period 2015-2020. It brought out that there was significant improvement in safety performance of the industry with respect to parameters like incident and severity rates. Key learnings from the incidents were also documented for the benefit of the industry.

As a part of the international activities, FAI provided its inputs to the International Energy Agency (IEA) on IEA's Nitrogen Technology Roadmap. It highlighted the large improvement in energy efficiency and reduction in carbon dioxide emission in ammonia production. This has been duly incorporated by IEA in the final report released in October 2021. FAI also contributed a recorded lecture on the Sustainable Practices in Indian Fertilizer Plants

as a part of the curriculum of IFA's Sustainable Fertilizer Academy.

Proposal to allow the E-marketing of fertilizers came up for discussion in CFC meeting. The CFC after deliberations requested FAI to consult all the stakeholders including dealers and submit a detailed concept note. FAI Board in its 401st meeting on 25th November, 2021 approved in principle the E-marketing of fertilizers as a way forward. It was stated that many companies are already in E-marketing of non-subsidized fertilizers. There are issues of the additional cost of home delivery and entitlement for subsidy as far as subsidized fertilizers are concerned.

Matter related to the label-based fertilizer registration has been in discussion for quite some time. During the *Chintan Shivir*, Working Group on 'Administrative and Legal Reform in Fertilizer Sector' also discussed the matter and referred it to the CFC. After detailed discussion on the subject, the CFC directed to form a Committee under the chairmanship of DDG (NRM), ICAR to look into the matter and make a recommendation in this regard alongwith broad guidelines.

The inclusion of new fertilizers in FCO is an ongoing process. With the continuous efforts of FAI, the procedure for inclusion of new fertilizers has been simplified to some extent and efforts are being made to get it further simplified/ streamlined. A number of new products and other amendments notified upto July 2021 were included in the 19th Edition of FCO published in July, 2021. Thereafter, two liquid fertilizers namely, i) Potassium Thiosulphate ($K_2S_2O_3$) and ii) Calcium Thiosulphate (CaS_2O_3) have been included in FCO. Further, the phospho-gypsum earlier notified as provisional fertilizer has again been notified as provisional fertilizer.

Department of Fertilizers is in the process of formulating an 'Integrated Plant Nutrition Management Act, 2022 (IPNMA) that aims to regulate all aspects of fertilizers including manufacturing, quality control, distribution and pricing in India. In this context, a Committee under the joint chairmanship of Secretary (Fertilizers) & Secretary (DA&FW) with representatives from DA&FW, FAI, and Fertilizer Industry as members was constituted to decide on broad framework of the proposed Act with reference to Fertiliser (Control) Order 1985. Under the guidance of the said Committee, DOF prepared a draft 'Integrated Plant Nutrition Management Act (IPNMA).' FAI circulated the draft

to the Board of Directors with a request to provide comments / suggestions on the proposed Act. After receiving the comments, FAI prepared a comprehensive note on the draft Act and sent it to DOF on 8th February, 2022. A copy of the same was circulated to Board of Directors.

FAI Annual Seminar was held during 1-3 December, 2021 on the theme 'Challenges in Fertilizer and Agriculture'. It was organized in hybrid form due to COVID-19 related restrictions. Inaugural function on the 1st December, 2021 was held in physical form with limited gathering and the proceedings were streamed virtually for around 800 participants across the globe. Dr. Trilochan Mohapatra, Secretary, Department of Agricultural Research and Education and Director General, ICAR, inaugurated the Seminar. The technical sessions during the next two days were held virtually. In total 16 presentations were made by eminent speakers in the areas of challenges of Indian fertilizer industry, meeting challenges in agriculture, sustainable fertilizer production and strategies for fertilizer marketing. Conclusions and recommendations coming out of the Seminar were published in Indian Journal of Fertilisers for dissemination.

FAI continued to bring out monthly journals, annual and adhoc publications enriched with valuable information related to fertilizer and agriculture sectors. The publications are considered authentic source of information by all concerned in the sectors. In addition to regular publications, Fertiliser Statistics, Specialty Fertiliser and Micronutrient Statistics, Biofertiliser Statistics and FCO were also brought out.

FAI has been providing wealth of information to its members and other stakeholders through e-mails, electronic media and publications. FAI website www.faidelhi.org *inter-alia* contains a variety of information including statistical data, maps, environmental issues, energy consumption, government notifications, fertilizer policy developments (highlights), reports, abstract service, daily news bulletin and blogs.

FAI continued to strengthen IT infrastructure for holding virtual meetings, seminars and other interaction with the government and members which proved to be highly useful during the last two years.

The COVID 19 crisis in the beginning of the financial year posed challenges for generating sufficient income to augment the increasing expenditure of the

Association. Rental income of FAI came down substantially due to vacation of rental portion by M/s Technology Development Board effective from 1st August, 2021. Till date of the report, no new tenant has come forward. Work for finding new occupant is on. There were challenges in organizing seminars, training programmes, etc. in physical form. At the beginning of the financial year, budget estimate showed a loss of Rs.90.90 lakh during the year. Some Associate Members defaulted in payment of their membership subscription for the year which added to the problem. As in the previous year, FAI organized seminar and training programmes in hybrid and virtual systems. There were two programmes in physical form also. The activities helped to increase income. This resulted in the excess of income over expenditure of Rs.16,54,173/- lakh during the year. It is worthwhile to mention here that FAI has made sustained efforts to manage its budget without any increase in membership dues for the last 9-years for active members and 11-years for associate members. This has been possible due to efficient management of expenses, mobilization of additional resources and rationalization of man power. FAI's Reserves and Surplus rose from Rs. 6.38 crore in the year 2008-09 to Rs. 25.12 crore in the year 2021-22. Interest income of these reserves is taken as income and has been helping to balance the budget for last two years. Reserves will also help FAI to tide over any crisis situation in future. Simultaneously, substantial capital investment has been made for improvement of physical and IT infrastructure in past few years.

FAI has remained in full compliance with all the rules and regulations under various laws of the land related to Company Act, Labour laws, Income Tax, GST and various other financial legislations including filing of returns periodically.

FAI is registered under section 12A of the Income Tax Act 1961 in the year 1994 according to which the income of the Association is exempted from Income tax on the grounds of working for advancement object of general public utility as FAI is working for the promotion of fertilizer and agriculture sectors. In spite of this, income tax department imposed huge tax liabilities for the assessment years 2010-11 and 2011-12. FAI went through various adjudication stages. The case reached Supreme Court because of successive appeals by the income tax department. FAI got favourable decision even in Supreme Court during the year 2019-20. However, FAI has not received income tax refunds for some of the years in spite of constant follow up by our tax consultants. We have registered

our complaint in Centralized Public Grievance and Monitoring System (CPGRAMS) Portal of the Central Government.

FAI received a Certificate of Appreciation from Ministry of Finance for prompt filing of returns and payment of GST for the year ending 2021-22 thereby substantially contributing to building a strong and resilient nation.

FAI also brought out its Competition Compliance Policy keeping in view the provisions of Competition Act 2002 and sent to all the members of FAI for perusal and compliance in order to ensure compliance and avoid penalties and legal action under the Act, both by FAI and its members.

FAI Staff Provident Fund Trust is exempted from the provisions of EPFO. Due to efficient management of funds as per investment pattern notified by the PF Commissioner and compliance with various provisions applicable to exempted trusts, FAI is able to sustain its exemption status.

Apart from Provident Fund Scheme, FAI provides other various retirement benefit schemes like Superannuation Scheme, Group Gratuity Schemes and Leave Encashment Schemes to its employees. These schemes are managed by LIC on behalf of FAI.

FAI Secretariat continues to work efficiently and effectively. After resignation of DG, FAI with effect from 7th January, 2022, FAI continued to work under the leadership of Dr. S. Nand, Additional Director General under the overall guidance of Mr. K.S. Raju, Chairman, FAI.

1.0 MONSOON, FERTILIZER PRODUCTION, IMPORTS, AVAILABILITY AND CONSUMPTION

The year marked a beginning with adequate inventory of fertilizers in different distribution channels. Weather was normal during monsoon period though there were issues of distribution and timing of rains in some areas. Sown area under *kharif* crops was marginally lower but in *rabi*, it was higher than the previous year. Production of fertilizers was marginally up. Import and sale of fertilizers declined during the year. Details are discussed in the following paragraphs.

1.1 Normal Southwest Monsoon

1.1.1 Southwest monsoon during the past three

consecutive years has been very good. In 2021, Southwest monsoon arrived over Kerala coast on 3rd June, 2021 after a delay of two days. Overall rainfall from 1st June to 30th September, 2021 was normal at 99% of long period average (LPA). Actual rainfall was 874.6 mm as against normal of 880.6 mm. There had been inter-month variations in the distribution of rainfall. Rainfall during June was 10% above LPA. However, it was 7% and 24% below LPA during July and August 2021, respectively. The most active monsoon month during the year was September, when the rainfall was 34% above LPA.

1.1.2 Out of 36 meteorological sub-divisions, 30 sub-divisions received normal to excess rains and remaining 6 sub-divisions received deficient rains during the period. Out of 694 reported districts, 77% districts received normal to excess rains during the period.

1.1.3 Almost timely onset, delayed withdrawal and uneven distribution over the four-month season across different regions were highlights of monsoon 2021. Due to long break in monsoon rains, *kharif* sowing of rice, *jowar* (sorghum), *bajra* (pearl millet), *moong* (green gram), maize, jute and mesta was delayed. There was resumption of rainfall activities in middle of July 2021. But the monsoon rains witnessed a second major break in the first week of August. Heavy rains in September damaged standing crops of soybean, cotton, onion and *urad* (black gram) at many places of Telangana, Maharashtra, Gujarat, Madhya Pradesh and Chhattisgarh. The Southwest monsoon withdrew from the entire country on 25th October, 2021, making it the seventh-most delayed retreat since 1975. It started receding from west Rajasthan and adjoining Gujarat on October 6, 2021. The withdrawal of the Southwest monsoon from northwest India usually begins from mid-September.

1.1.4 Water storage position in major reservoirs was comfortable in 2021. Total live storage capacity in 130 reservoirs in the country was 171.96 billion cubic meter (BCM). Live storage available in these reservoirs was 138.33 BCM as on 30th September, 2021 as against 150.19 BCM on the same date in the previous year. Live storage during the period was 92% of the last year and 104% of the normal storage.

1.1.5 Uneven distribution of rains during the Southwest monsoon resulted in lower coverage under *kharif* crops. According to the 1st advance estimates of *kharif* crops, total sown area under all *kharif* crops 2021 was 108.6 million hectares (Mha) compared to 111.4

Mha during *kharif* 2020, a decline of 2.5%. Among the principal crops, area under food grain and oilseeds declined by 0.9% and 7%, respectively, in *kharif* 2021 over *kharif* 2020. While area under rice, sugarcane and jute & mesta increased, area under coarse cereals, pulses and cotton declined during the season.

1.1.6 As per the 2nd advance estimates of *rabi* crops, total sown area under all *rabi* crops 2021-22 was 66.42 Mha compared to 65.26 Mha during *rabi* 2020-21. Area coverage during *rabi* 2021-22 was 1.8% higher over *rabi* 2020-21. Among the principal crops, area covered under food grain and oilseeds increased by 0.1% and 14%, respectively, during the period. Sown area under wheat, rice and coarse cereals declined whereas sown area under pulses increased during the period.

1.2 Comfortable Availability of Fertilizers

1.2.1 There was comfortable availability of fertilizers from opening inventory during 2021-22. Inventory of urea at various points was about 5.7 million MT at the beginning of 2021-22. Inventory of DAP and NP/NPKs together was about 5.5 million MT, SSP 2.0 million MT and MOP 1.6 million MT during the period. Availability from domestic production was marginally up and imports were lower during 2021-22.

1.2.2 Marginal Growth in Production

1.2.2.1 Production of total fertilizer products at 43.75 million MT during 2021-22 showed a marginal increase of 0.6% over 2020-21. Production of urea at 25.08 million MT, DAP at 4.22 million MT and SSP at 5.35 million MT during 2021-22 recorded increase of 1.9%, 11.9% and 8.9%, respectively, over 2020-21. However, production of NP/NPK complex fertilizers at 8.31 million MT witnessed a sharp decline of 10.9% during the same period.

1.2.2.2 In terms of nutrients, production of total nutrients (N+P₂O₅) registered marginal increase of 0.6% during 2021-22 over the previous year. While production of N at 13.87 million MT during 2021-22 recorded an increase of 0.9% over 2020-21, P₂O₅ at 4.71 million MT witnessed a decline of 0.5% during the same period.

1.2.2.3 Among the existing urea operating plants, one plant in Assam was shut down during the entire year due to equipment failure in ammonia synthesis section. Another plant in Andhra Pradesh was also under shut down due to financial stress. A few other urea plants suffered equipment problems. It was

expected that there would be higher urea production due to additional contribution from two new urea plants but the old plants did not operate well compared to previous year. Some of the DAP/NP/NPK fertilizer plants suffered due to raw material limitations. There has been considerable increase in prices of raw materials/intermediates during the year. In spite of several challenges, industry has maintained the production level and imports during the year. Production could have been higher but for these bottlenecks.

1.2.3 Low Imports

1.2.3.1 Except DAP, import of all major fertilizers declined significantly during 2021-22 over the previous year due to steep hike in the prices of finished fertilizers and fertilizer raw materials/intermediates in the international market. The import of urea declined by 7.1%, NP/NPKs by 15.8% and MOP by 41.8% during 2021-22 over 2020-21. However, import of DAP increased by 11.9% during the period. The quantum of imports of urea, DAP, NP/NPKs and MOP were 9.14 million MT, 5.46 million MT, 1.17 million MT and 2.46 million MT, respectively, during 2021-22.

1.3 Decline in Consumption

1.3.1 The actual consumption data of fertilizers for 2021-22 are yet to be finalized by the Government. In the absence of actual consumption data, DBT sales data for 2021-22 have been used as an estimate of consumption. Consumption of fertilizers in terms of nutrients (N+P₂O₅+K₂O) estimated at 29.80 million MT during 2021-22 witnessed a decline of 8.4% over 2020-21. It is well known that there was a massive increase in sale of fertilizer nutrients by 10.8% during 2020-21 over 2019-20. However, sale of fertilizer nutrients during 2021-22 declined but the average outfigures of sale of fertilizer nutrients for 2020-21 and 2021-22 showed a positive growth over 2019-20.

1.3.2 The estimated consumption of N, P₂O₅ and K₂O at 19.44 million MT, 7.83 million MT and 2.53 million MT during 2021-22 showed decline of 4.7%, 12.8% and 19.8%, respectively, over 2020-21.

1.3.3 In terms of product, All-India estimated consumption of urea at 34.18 million MT, DAP at 9.27 million MT, NP/NPK complex fertilizers at 11.48 million MT and MOP at 2.46 million MT during 2021-22 registered decline of 2.5%, 22.2%, 2.8% and 28.3%, respectively, over 2020-21. However, consumption of

SSP at 5.68 million MT recorded an increase of 26.6% during the period. Total consumption of all fertilizer products at 63.91 million MT during 2021-22 showed a decline of 5.5% over 2020-21.

1.3.4 State-wise analysis of fertilizer consumption shows similar pattern. Consumption of urea witnessed negative growth during 2021-22 over 2020-21 in majority of the states except Assam, Odisha, West Bengal, Himachal Pradesh, Punjab, Karnataka and Tamil Nadu. Similarly, consumption of DAP and MOP registered negative growth during the year in most of the states. Consumption of NP/NPK fertilizers showed a mixed growth among the states during the year. However, consumption of SSP recorded positive growth in most of the SSP consuming states except Himachal Pradesh and some north-eastern states.

2.0 POLICIES RELATED TO FERTILIZER SECTOR

2.1 Major Issues Faced by the Industry

2.1.1 FAI continued to take up the issues faced by Indian fertilizer industry with concerned government authorities including the Ministry of Chemicals & Fertilizers, Ministry of Agriculture & Farmers Welfare and Ministry of Finance. These issues mainly covered pricing and subsidy policies for urea and P&K fertilizers, budget allocation for fertilizer subsidy, processing and payment of subsidy claims, freight reimbursement, Fertilizer Control Order, Integrated Plant Nutrition Management Act, Energy Conservation Act and Plastic Waste Management Rules. Means of communications included virtual meetings, physical meetings, power point presentations, representations and deliberations in various Committees /Sub-committees formed by the government.

2.2 Issues of Urea Industry

2.2.1 Minimum Fixed Cost

2.2.1.1 Provision of Minimum Fixed Cost for urea units was integral part of the Modified NPS-III Policy originally notified on 2nd April, 2014. However, this policy remained pending till 2020. It was implemented after amendment in March 2020 by removing the clause pertaining to Minimum Fixed Cost. It was decided to take up the policy of Minimum Fixed Cost subsequently. FAI has been regularly following up this issue and the efforts continued even during 2021-22. In July 2021, it was highlighted that delay in approval of policy for minimum fixed cost was not only

affecting the viability of three low cost gas based urea units with reassessed annual capacity of 4.3 million MTs, but it was also impacting the viability of additional production beyond Re-Assessed Capacity (RAC) of another 4 million MTs per annum. This issue was also flagged in response to the DOF directive dated 18th January 2022 to gas based urea units not to take any annual shutdown and maximize domestic production of urea in view of steep increase in prices of imported urea. While assuring maximum domestic production by the domestic gas based urea units, it was pointed out that approval of the pending policy of minimum fixed cost would encourage such additional production beyond RAC, as reimbursement against additional production is also linked to minimum fixed cost.

2.2.2 Escalation Claims

2.2.2.1 FAI representation dated 18th May, 2021 requested for payment of pending subsidy dues for April, 2021 which remained pending in spite of funds being available. This representation also requested for expediting pending annual escalation claims of 2019-20, quarterly escalation claims for the 2nd and the 3rd quarter of 2020-21 and also the annual escalation claims of 2020-21. It was highlighted that pool gas prices have been rising sharply in the recent quarters which are not reflected in the subsidy rates due to pending escalation claims. In view of the continuous sharp rise in pool prices of gas during the year 2021-22 and delay in processing of quarterly escalation claims by DOF, FAI representation in January 2022 pleaded for processing the pending escalation claims for the 3rd quarter of 2021-22 (October-December 2021) and also allowing proportionate adhoc increase in cost of gas for the 4th quarter (January-March 2022). This was to provide some relief against steep rise in cost of production due to increase in cost of gas.

2.2.3 Further Increase in Fixed Cost

2.2.3.1 Modified NPS-III policy amended and approved in March 2020 was implemented for 2014-15 onwards. This allowed a nominal increase of Rs.350/tonne of urea in fixed cost to partly address the increase in selected 4 elements viz., salaries & wages, contract labour, repair & maintenance and selling expenses. This increase was allowed based on the analysis of increase in cost upto the year 2008-09. There has been significant increase in these 4 elements of cost beyond 2008-09. Moreover, significant increase in elements of fixed cost, other than these selected 4 items, over the costed year 2002-03 for NPS-III policy

for about 19 years also remain unrecognised. Further, the Government has mopped up successive improvements in energy efficiency against the NPS policy. But, the fixed cost related to investment made for energy improvement projects remain to be included as part of fixed cost. Hence, there was an urgent need for updating all elements of fixed cost to ensure continued viability of all existing urea units. Needless to mention, these units are consistently providing urea at much lower cost than the cost of imported urea and relative advantage of domestic production has increased significantly due to steep increase in international prices of urea.

2.2.3.2 FAI has been regularly pursuing for updation of fixed cost beyond the nominal relief that was provided under Modified NPS-III policy. The DOF has been regularly collecting fixed cost data from all urea units latest being for the year 2018-19 to 2020-21. The increase in fixed cost of all urea units over the fixed cost being currently allowed is well within the knowledge of the Government. All these issues have been discussed on various forums like Working Groups set up under *Chintan Shivir*, Committees and Sub-committees constituted for review and formulation of new urea policy and the Taskforce which are undertaking various exercises.

2.2.4 Committee on Urea Policy

2.2.4.1 A meeting of industry representatives was held on 13th September, 2021 under the Chairmanship of the Secretary (Fertilizers) to discuss various issues of Urea sector wherein it was decided to constitute a Committee on the subject. Accordingly, a Committee on urea policy has been constituted on 20th September, 2021 under the Chairmanship of the Joint Secretary (NA), DOF (In charge of Urea Policy) and members from the industry and FAI.

2.2.4.2 The terms of reference for the Committee are as under:

- (a) The Committee will examine the feasibility of formulating a single, uniform and simplified policy for administering urea subsidy mechanism pegged at import parity price of urea or NBS or any other objective criteria.
- (b) Suggest any other changes as required in the existing policy provisions.
- (c) The Committee will submit its report/draft proposal for feasibility of formulating a single,

uniform and simplified policy for administering urea subsidy within 3 months from the date of its constitution.

2.2.4.3 The Committee had its first meeting on 7th October, 2021 wherein among other things, a Sub-committee was constituted. The Sub-committee also had its first meeting on 3rd November, 2021. The Sub-committee has submitted the draft report to DOF. The deliberations of the Committee and the Sub-committee are continuing.

2.2.5. Payment of Increased Fixed Cost as per Modified NPS-III Policy for Production beyond RAC

2.2.5.1 With the amendment and approval of Modified NPS-III Policy, the minimum fixed cost allowed for production of urea beyond RAC became Rs.1635/tonne instead of Rs.1285/tonne applicable earlier. The differential between Rs.1635 and Rs.1285 per tonne became payable on additional production from the period 2014-15 onwards. FAI pursued this issue vide its communications dated 18th May 2021, 13th July, 2021 and 6th August, 2021. These payments were cleared during the year.

3.0 POLICIES RELATED TO P&K FERTILIZERS

3.1 NBS Policy for 2021-22

3.1.1 Department of Fertilizers vide O.M. dated 9th April, 2021 decided to extend the NBS rates of 2020-21, for the year 2021-22 till further orders. There was significant increase in international prices of fertilizers and raw materials, intermediates used to manufacture P&K fertilizers. This made it difficult for the industry to maintain the MRP at old levels. To keep the MRP at the old level, DOF revised the NBS rates of the year 2021-22 on 20th May, 2021 applicable from the date of notification till 31st October, 2021. The revised per kg subsidy on phosphate (P) increased from Rs.14.888/- to Rs. 45.323/-. Accordingly, NBS rates for P containing fertilizers increased significantly. NBS rate of DAP increased from Rs. 10,231/- to Rs. 24,231/- per tonne and for SSP, it went up from Rs. 2,643/- to Rs. 7,513/- per tonne. NBS rates for different grades of NP/NPK fertilizers were in the range of Rs. 11,134/- to Rs. 19,910/- per tonne. However, NBS rates for N, K and S remained unchanged at the previous year's level. Therefore, NBS rate for MOP and ammonium sulphate remained unchanged at Rs. 6,070/- and Rs. 4,398/- per tonne, respectively. Two new NPK complex fertilizers (8-21-21 and 9-24-24) were included in the NBS scheme during the year.

3.1.2 The international prices continued to rise further putting tremendous pressure on the margins of suppliers. The need for increasing the MRP or subsidy was rising with continuous increase in international prices. This was brought to the notice of the DOF in August 2021 with a request for extending the increased rates of subsidy for *khariif* 2021 to *rabi* 2021-22. It was also requested to revise the NBS subsidy rates for all nutrients. This was necessary to enable the industry to maintain supply of the fertilizers. Government took cognizance of situation in international market. Vide O.M. dated 13th October, 2021, DOF extended the NBS rates applicable from 20th May, 2021 for *rabi* 2021-22 *i.e.* from 1st October, 2021 to 31st March, 2022. The potash derived from molasses (PDM) *i.e.* 0-0-14.5-0 was included under the NBS scheme and subsidy rate was fixed at Rs.1,467/- per tonne. Special one-time package with an additional subsidy of Rs. 8,769/- for DAP and Rs. 2,000/- per tonne each for 20-20-0-13, 10-26-26-0 and 12-32-16 was also notified for period from 1st October, 2021 to 31st March, 2022.

3.1.3 In view of continuously rising international price of fertilizers and raw materials, the industry had been finding it difficult to arrange adequate quantities of fertilizers with the prevailing rates of subsidy. This was communicated to the Government. The Government being fully aware of the situation, vide its letter dated 25th January, 2022 promised to provide additional relief on losses incurred in producing and importing additional quantities of DAP/NPKs. Subsequently, FAI brought to the notice of DOF that the domestic manufacturers of DAP were losing Rs.18,000-20,000 per tonne even after factoring in the additional rate of subsidy announced in October, 2021. In view of the magnitude of losses, the DOF was also requested to compensate for the losses on entire quantity produced during the 4th quarter of 2021-22 and not only additional quantities produced during the period.

3.2 NBS Policy for 2022-23

3.2.1 The international prices of finished fertilizers and raw materials increased further after Russia-Ukraine crisis. In order to keep the P&K fertilizer prices affordable to the farmers, DOF vide notification dated 27th April, 2022, enhanced the rates of subsidy under NBS policy. Revised rates are Rs. 91.96, Rs.72.74, Rs.25.31 and Rs.6.94 per kg for N, P, K and S, respectively for *khariif* 2022. Thus, there was significant increase in rates of subsidy on P&K fertilizer materials included in NBS. However, subsidy for SSP was kept

at the same level *i.e.* Rs.7,513/- per tonne as applicable from 20th May, 2021 to 31st March, 2022.

3.3 Reasonableness of Profits/MRP

3.3.1 The issue of exclusion of indirect taxes like GST while computing reasonableness of profit has been under the consideration of the Government for long time. FAI has been pursuing this issue with DOF. In continuation of its earlier efforts, FAI again requested DOF in February, 2022 to expedite the decision on this issue.

3.4 Potash Derived from Molasses

3.4.1 Regarding payment of subsidy on potash derived from molasses (PDM), a meeting was held under the chairmanship of Joint Secretary, DOF, on 12th November, 2021 for framing the guidelines to claim the subsidy on the sale of PDM. Because it would be difficult to include all the interested small / big sugar industries under the NBS scheme, FAI suggested that fertilizer industry may enter with an agreement with the sugar factories / distilleries for marketing of PDM. The bags containing PDM may include the name of both manufacturers and marketers and the subsidy should be allowed to be claimed by the marketers only. The fertilizer companies will be responsible for quality / standard of PDM. The guidelines are still to be issued.

3.5 Constitution of Expert Committee

3.5.1 Department of Fertilizers constituted an expert committee comprising of officials from the NITI Aayog, Department of Agriculture and Farmers Welfare, Department of Expenditure, Department of Agricultural Research and Education and from the fertilizer industry to recommend measurers in the NBS policy to promote the objectives of present policy initiatives of the Government of India including Atma Nirbhar Bharat Mission. The terms of reference for the Committee are as under:

- i. To examine and recommend strategies for economizing/rationalizing NBS subsidy rates as per market dynamics/trend, demand availability and reasonableness of MRP.
- ii. To examine the scope of differential NBS rates for imported and indigenous P&K fertilizers under the NBS policy and make recommendations.
- iii. To examine and recommend measures for improving competitiveness of indigenous manufacturing of phosphoric acid/SSP along with

long-term strategies for securing rock phosphate globally.

- iv. To examine the issue of disposal of phosphogypsum (by product in the production of Phos Acid) and use as fertilizer under FCO, under the circular economy concept.
- v. To recommend measures in the NBS policy towards promotion of balanced use of fertilizers.
- vi. To examine the aggregator model for SSP/marketing arrangements guidelines for P&K fertilizers.
- vii. To include any other issue.

3.6 SSP Industry

3.6.1 Hon'ble Minister of Chemicals & Fertilizers and Health & Family Welfare, Dr. Mansukh Mandaviya called a meeting of some SSP manufactures and FAI on 29th July, 2021 to discuss the issues of quality, MRP and assessment of likely production. Hon'ble Minister of State for Chemicals and Fertilizers, Mr. Bhagwanth Khuba was also present along with Secretary (Fertilizers). SSP manufacturers were told that there would be no compromise on the unreasonable MRP and quality of SSP. Stringent action would be taken by keeping out SSP fertilizer or the SSP companies from the NBS scheme. As a follow up action of the meeting, DOF asked all the P&K fertilizer companies, including SSP manufacturers to keep the reasonableness of their profits and not to increase the MRP of fertilizers. The Government still found that some companies were selling at higher than reasonable MRP. The DOF issued show cause notices to some of the SSP manufacturers for not complying with the quality standard and reasonable MRP.

3.6.2 SSP is the most popular phosphatic fertilizer after DAP as it contains three major nutrients along with many micronutrients. SSP is indigenously manufactured fertilizer and supply can be made at a short notice. With this background, DOF circulated O.M. dated 10th December, 2021 to the Principal Secretary/Secretary (Agriculture) of all states/UTs with a request to carrying out awareness programmes and promotional activities across the states in India to make farmers aware about the benefits of SSP.

3.6.3 Rock Phosphate

3.6.3.1 PDIL and FEDO have been drawing the random samples of imported Rock Phosphates from the ports for testing. However, due to outbreak of Covid-19 pandemic, the samples were not drawn from

the ports. In the meantime, the material was shifted from ports to the production units to continue production. On the request of FAI, the DOF deferred the random sampling of Egyptian Rock Phosphate (ERP) for uninterrupted production of fertilizers in 2020-21. Department of Fertilizers vide letter dated 29th April, 2021, sought the comments of FAI for further extension for drawing the random samples. FAI reviewed the situation and suggested that in view of pandemic situation, the present arrangements of the testing of ERP and Technical Audit Inspection of SSP units may be continued. It was also mentioned that in any case, the quality of the finished product *i.e.* SSP has to be ensured as per the provisions of FCO, 1985. Further, DOF deferred the random sample testing of ERP by PDIL/FEDO up to 31st July, 2021. It was mentioned that the SSP units shall keep the adequate minimum stock of imported ERP at the port or plant so that the sampling may be done at a later stage after easing of restriction on travel.

3.6.3.2 The guidelines for using un-notified grade of Rock Phosphate for manufacturing SSP of FCO standard from new sources were issued by the DOF on 26th July, 2021. The SSP manufacturing units had to get the prior permission from the DOF for purchase of the new grade of Rock Phosphate and the quantity shall not exceed 500 tonne for trial purpose for the production of SSP. The SSP produced in the trial run shall not be eligible for subsidy.

3.6.3.3 Department of Fertilizers vide O.M. dated 24th December, 2021 notified the Morocco Rock Phosphate having 30% P₂O₅ content for using as primary rock for production of SSP under NBS policy.

3.6.3.4 Department of Fertilizers also granted permission to some of the SSP manufacturers to use Algerian Rock Phosphate (ARP) having 29% P₂O₅ provisionally for one year. A clarification was issued by the Department allowing such companies to import and use ARP for one year over and above the quantity permitted earlier. However, the clarification was withdrawn on 27th January, 2022 with immediate effect.

3.6.4 MOU signed with Jordan

3.6.4.1 A high level delegation led by Hon'ble Minister of Chemicals & Fertilizers and Health & Family Welfare, Dr. Mansukh Mandaviya visited Jordan in May 2022 for enhanced cooperation in the fertilizer sector. MoUs were signed with Jordan Phosphate Mining Company for supply of 30 lakh tonne rock

phosphate, 2.5 lakh tonne of DAP, 1 lakh tonne of phosphoric acid for the current year. India has also signed a long term (5 years) MOU with Jordan for annual supplies of 2.75 lakh tonne of MOP, which will uniformly increase every year upto 3.25 lakh tonne.

3.6.5 Multi-disciplinary Committee on Beneficiated Rock Phosphate

3.6.5.1 A Multi-Disciplinary Committee (MDC) was constituted on 21st August, 2019 by the DOF with the mandate to visit the existing private beneficiated rock phosphate (BRP) plants for conducting techno-commercial, environmental study, to analyse and give a report regarding feasibility of production of good quality BRP for manufacturing of SSP. The Committee submitted the report in November, 2020. The DOF notified the guidelines for BRP manufacturers on 10th November, 2021. Amongst other things, import of low grade Rock Phosphate (26% P₂O₅ or below) was not allowed for beneficiation.

4.0 OTHER POLICY RELATED ISSUES

4.1 Freight for Primary and Secondary Road Transportation

4.1.1 The primary and secondary road freights for urea were revised by the DOF in 2018 for the year 2016-17 and the industry continued to get freight subsidy on the basis of last notified rates. Primary road freight for P&K fertilizers were paid on the basis of slab-wise (km) rates of railways (Rs./ tonne) effective from 1st April 2012. These rates have not been revised in spite of revision in rail freight thrice by the railways. Further, there is a provision of special compensation of secondary movement of P&K fertilizers to difficult areas/regions notified in July 2012. FAI requested DOF to update all the freight rates as under-recovery of freight cost hurting the industry. The DOF vide letter dated 6th April, 2022 notified the primary and secondary freight rates for urea till 2020-21. However, the revision in primary road freight for P&K fertilizers remained pending.

4.2 Shortage of Jumbo Rakes

4.2.1 There were shortages of Jumbo rakes at the Gandhidham Subdivision of Western Railways during February, 2022. This resulted in constraints of movement of both domestic as well as imported fertilizers from the west coast *i.e.* Kandla, Mundra and Tuna ports. The fertilizer manufacturing units operate continuously and are having limited storage space.

Ports also have limited storage capacity and material was often stored in open space which could affect the quality of fertilizers. In view of huge stocks of fertilizers piled up at the ports / plants, there was an urgent need to transport the fertilizers to ensure the timely availability to the farmers. FAI requested the Additional Member-Traffic, Railway Board for her intervention in the matter to ensure availability of sufficient rakes at the ports and fertilizer plant located in Gujarat.

4.3 Demurrage and Wharfage Charges

4.3.1 In view of spurt in positive cases under 2nd wave of Covid-19 pandemic and subsequent partial / full lockdown by the government, availability of labour hampered loading and unloading operations. FAI requested the Secretary (Fertilizers), to take up the matter with the Ministry of Railways to waive the charges of demurrage, wharfage, etc., at the rake points as was done in the 1st wave of Covid-19, till the situation normalizes. Ministry of Railways vide letter dated 5th May, 2021 authorized general managers of Zonal Railways to take decision on waiver of demurrage and wharfage charges, based on local conditions regarding lockdown, either full or partial, and the extent to which it affects detention of rakes or occupation of wharfs.

4.4 Sale to Customized/Mixture Fertilizer Manufacturing Units

4.4.1 Department of Fertilizers notified the revised guidelines for subsidised fertilizer delivery mechanism for mixture/customized manufacturers and planters' units under DBT system on 9th November, 2021. As per the guidelines, mixture/customized manufacturers will be eligible for 25% of their total requirement authorized by the state government.

4.5 City Compost

4.5.1 Department of Fertilizers notified the policy on promotion of city compost with market development assistance (MDA) of Rs.1500/- per tonne in 2016. As per the guidelines for payment of MDA, fertilizer companies submitted the claims for 'On Account' and also for 'Balance Claims' for 2016-17 and 2017-18. The Department made payment only for the 'On Account' bills. The reason for non-payment of 50% balance claims was due to pending quality certification by the state governments. The state governments did not draw the samples from the fields due to non-existence

of facilities in the states for testing of city compost. The state governments certified the quality of city compost as 'sample drawn-NIL and quantity rejected-NIL'. FAI vide letter dated 6th August, 2021 requested the Secretary (Fertilizers) to facilitate the payment of balance MDA claims for sale of city compost for the period 2016-17 and 2017-18, but the same has not been settled. From 2018-19 onwards, 100% payment was linked to sale by the retailers through POS machines to the farmers in line with other P&K fertilizers.

4.5.2 The Expenditure Finance Committee Chaired by Finance Secretary & Secretary Expenditure in its meeting held on the 2nd August, 2021 reviewed continuation of on-going scheme of policy on promotion of city compost. The Committee recommended that as there are similar schemes in other departments with larger budget and better field presence, promotion of city compost scheme should be discontinued by September 2021. Accordingly, DOF de-notified the policy on promotion of city compost w.e.f. 30th September, 2021.

5.0 BUDGET ALLOCATION AND PAYMENT RELATED ISSUES

5.1 FAI Pre-Budget Memorandum

5.1.1 FAI submitted fertilizer industry pre-budget memorandum for Union Budget 2022-23 containing industry suggestions regarding taxation issues facing the industry covering indirect & direct taxes and also budget allocation for fertilizer subsidy.

5.1.2 Representation to Hon'ble Finance Minister regarding various issues faced by the fertilizer sector under the GST law was submitted on 21st October, 2021 for the consideration in GST Council, as GST is not a part of the Union Budget exercise. It was requested to allow refund of unutilized ITC in respect of both inputs and input services, reduce GST rate on micro-nutrients from 12% to 5%, exempting importers from

payment of IGST under reverse charge basis on ocean freight service for CIF contracts and exempting transportation service of fertilizers by road and rail from GST. Similar letter was sent to the Joint Secretary, DOF, requesting to take up the matter with the Ministry of Finance.

5.1.3 FAI suggestions for Union Budget 2022-23 pertaining to Direct Taxes was submitted to the Joint Secretary (TPL-I), CBDT, Ministry of Finance vide letter dated 19th November, 2021. Similar letter was sent to the Joint Secretary, DOF requesting for taking up the issues of fertilizer industry with the Finance Ministry. Issues mainly included continuation of weighted deduction of 200% under Section 35 (2AB) for R&D activities and 150% deduction under Section 35 (CCC) to encourage farmers' education and allowing 80% depreciation on energy saving devices. Suggestions like, taxing of foreign dividend received from joint ventures / subsidiaries by fertilizer cooperatives in India, abolition of surcharge on income tax for cooperatives, exemption from capital gains tax against transfer of capital assets to wholly own subsidiaries of cooperatives were also submitted.

5.1.4 FAI's suggestions on customs duty were submitted to the Joint Secretary (TRU-I), CBIC, Department of Revenue vide letter dated 23rd November, 2021. The representation *inter-alia* sought exemption from customs duty on fertilizer raw materials/intermediates like rock phosphate, sulphur, phosphoric acid, ammonia, sulphuric acid, etc. Similar letter dated 22nd November, 2021 was sent to the Joint Secretary, DOF, requesting for taking up these issues with the Ministry of Finance.

5.2 Budget Allocation for 2020-21, 2021-22 and 2022-23 (BE)

5.2.1 The Table on budget allocation depicts subsidy outgo for 2020-21, Budget Estimate (BE), Revised Estimate (RE) for 2021-22 and BE for 2022-23.

Budget Allocation for Fertilizer Subsidy (2020-21 to 2022-23) (Rs.in crore)				
Particulars	2020-21 (Actual)	BE 2021-22	RE 2021-22 (as per budget 2022-23)	BE 2022-23
Indigenous Urea	68807.41	43236.28	48612.00	46596.78
Imported Urea	25049.62	19550.00	36250.40	20590.00
DBT in fertilizer subsidy	9.96	11.40	27.92	15.54
Recovery	-3317.72	-4030.00	-8960.00	-3980.00
Net Subsidy on Urea	90549.27	58767.68	75930.32	63222.32
Indigenous P&K	22288.36	12460.00	39062.66	25200.00
Imported P&K	15015.37	8260.00	25087.34	16800.00
City Compost	68.74	42.00	42.00	-
Total P&K Fertilizers	37372.47	20762.00	64192.00	42000.00
Grand Total	127921.74	79529.68	140122.32	105222.32

Source: Budget documents 2022-23

5.2.2 Budget Allocation for 2021-22

5.2.2.1 Allocation in BE for 2021-22 was Rs.79,529.68 crore against the expenditure of Rs.1,27,921.74 crore during the previous year 2020-21, including additional allocation of Rs.65,000 crore as per the Union Budget 2022-23 documents, Ministry of Finance. The allocation was significantly lower than the estimated requirement. FAI took up this issue with DOF for additional allocation of funds for fertilizer subsidy. It was highlighted that the need for higher allocation was for both urea as well as P&K fertilizers. Government made additional allocation of Rs.58,430 crore in the 2nd Supplementary Grants increasing allocation to Rs.1,37,960 crore. This allocation was further revised to Rs.1,40,122.32 crore in the RE at the time of presentation of Union Budget 2022-23. The actual expenditure on fertilizer subsidy for 2021-22 is estimated to be still higher at about Rs.1.58 lakh crore.

5.3 Budget Allocation for 2022-23

5.3.1 The Budget Estimate for 2022-23 given in the Union Budget document is Rs.1,05, 222.32 crore against the RE for 2021-22 of Rs.1,40,122.32 crore. This amount was again inadequate, in view of continuing steep rise in international prices of fertilizers and raw materials. However, the Government has again taken timely steps in assessing the situation and has announced additional provision of Rs.1,10,000 crore in May 2022. With this, the total provision for fertilizer subsidy for 2022-23 comes to Rs.2,15,222 crore. The Government has been successively providing additional allocations for last three years to protect the farmers' interest. This additional allocation will be helpful in ensuring adequate availability of fertilizers during the year.

5.4 Payment Related Issues

5.4.1 Freight bills on P&K fertilizers were pending since 2020. FAI took up the issue with DOF in August 2021 with a request for expeditious processing and settlement of freight bills on both domestic and imported P&K fertilizers. It was underlined that delay in freight payment aggravates the financial position of P&K fertilizer suppliers which was already suffering due to sharp rise in international prices of fertilizers and raw materials. Subsequently, payments of freight were made upto October 2021.

5.4.2 In February, 2022, DOF was requested to facilitate raising of bills for P&K fertilizers for payment of revised rates of subsidy under NBS policy

in iFMS to enable fertilizer units raise bills of increased subsidy resulting from two successive revisions in rates of subsidy, 1st on 20th May 2021 and again on 13th October, 2021. The payment is under process.

6.0 OTHER TAXATION ISSUES

6.1 Continuation of Customs duty Exemption/Concession on Goods Imported for Fertilizer Projects under Renovation/Modernization Scheme and Spare Parts

6.1.1 Apart from pre-budget memorandum, FAI also takes up taxation issues of the industry. As part of review exercise of existing tax concessions/exemption allowed to the fertilizer industry, Ministry of Finance raised some queries. In response to these queries received by FAI through DOF, FAI submitted its suggestions to DOF requesting for continuation of customs duty exemption/concession on goods imported for fertilizer projects under renovation/modernization scheme and spare parts for maintenance of the same. The representation was supported with a note justifying the need for continuation of these duty concessions for facilitating renovation/modernisation of fertilizer units.

6.2 IGST on Ocean Freight on Reverse Charge Basis in CIF Import Contracts

6.2.1 The levy of IGST on reverse charge basis on Ocean freight on imports made on CIF contracts was resulting in double taxation on ocean freight. First, as part of CIF value of imports and again separately on Ocean freight portion (service of transportation) on reverse charge basis. This matter was dealt with earlier by the Hon'ble Gujarat High Court in the Petition of M/s Mohit Minerals Pvt. Ltd. However, the Centre filed an Appeal in the Hon'ble Supreme Court against the judgement of the Gujarat High Court. The Hon'ble Supreme Court agreed with the Judgement of the Gujarat High Court that a tax on supply of service, which has already been included by the legislation as a tax on the composite supply of goods, cannot be allowed. The Apex Court also observed that levy imposed on the 'service' aspect of the transaction is in violation of the principle of 'composite supply'. Since the Indian importer is liable to pay IGST on 'composite supply' comprising supply of goods and supply of services of transportation, insurance, etc. in a CIF contract, a separate levy on the Indian importer for the 'supply of service' by the shipping company would be in violation of the GST Law. This decision should provide much needed relief to the industry.

6.2.2 Now, options available before the Centre include honouring the Supreme Court Ruling and rescinding the concerned notification by administrative order/ notification or it may also choose to amend the Law with retrospective effect to negate the Supreme Court's decision, which would require going back to the Parliament. Centre may also chose to challenge the Ruling through a review petition before a larger bench or even curative petition if review petition is rejected. The Centre has not taken any decision on the matter yet.

7.0 FAI COURT CASES

7.1 Government is providing subsidy on fertilizers to make them affordable for the farmers. Production, distribution, sale, quality and prices of fertilizers are regulated by the Government. Farmers' prices of fertilizers are kept significantly below the cost of production/import so that these remain affordable and farmers are encouraged to use them to increase agriculture production and productivity. The difference between the cost of fertilizers and the farmers' price is reimbursed to the industry which is called subsidy. Government recognizes cost generally based on information regularly submitted by the industry, information already available with the Government and analysis of this information. Any delay in updating costs or non-recognition of any part of genuine costs results in under-recovery of cost for the industry. FAI keeps taking up such issues at appropriate levels on regular basis with the Government for timely redressal of the same. However, sometimes issues don't get resolved through deliberation at administrative levels with the Government. When all administrative redressal mechanisms get exhausted, the industry is forced to seek relief through legal route. There have been a few such incidences in the recent past when industry through FAI was forced to take legal recourse for redressal of unresolved issues. Currently, there are four such court cases being pursued in Delhi High Court by FAI for appropriate relief on behalf of the industry. The following paragraphs briefly explains these cases alongwith their progress and current status:

7.2 Writ Petition No. W.P.(C) 1861/2013 in the Matter of Fertilizer Bonds

7.2.1 The Government issued bonds worth Rs.27,500 crore to fertilizer companies in lieu of payment of subsidy in cash in 2007-08 and 2008-09. These bonds were of inferior quality. Fertilizer companies were

cash starved due to inordinate delays in payment of subsidy. Hence most of them were forced to sell these bonds. Fertilizer companies suffered huge losses in sale of such bonds even to the RBI under buy-back scheme of the Government. Government compensated only 50% of the losses incurred on sale of Bonds to RBI. Repeated appeals with concerned departments for years did not yield any result for compensation of the balance 50% losses. The industry was ultimately forced to move the Hon'ble Delhi High Court in 2013 for reimbursement of the balance loss and buy-back of remaining bonds to avoid any further loss to the fertilizer companies. The Petition was accepted by the Hon'ble Court and the case is progressing.

7.2.2 Regarding progress and current status of this case, it may be noted that after written pleadings, FAI counsel had pleaded that the Government decision to compensate 50% losses was interim and petitioners (fertilizer companies) did not agree for compensation of only 50% losses. Further, Government's final decision, if any, to this effect had not been communicated to the petitioners. Subsequently, DOF communicated on 12th April, 2019 its decision that the remaining 50% of total loss on account of buy-back of bonds through RBI shall be borne by fertilizer companies. DOF also stated that no further intervention is necessary in respect of losses incurred on account of sale or buy-back of fertilizer bonds as well as in respect of unsold bonds remaining with fertilizer companies. In response to DOF's this decision, FAI filed application in Hon'ble Delhi High Court on 3rd May, 2019 seeking ad-interim stay on DOF's above decision. FAI also pleaded for adjudicating the Writ Petition on its merit and quash DOF's communication dated 12th April, 2019. DOF filed reply to FAI petition on the 7th November, 2019 with application for condonation of delay. After several postponement of dates due to COVID, the case was listed for 3rd December, 2021. But, again due to COVID-19 Pandemic, the matter is now relisted for 1st August, 2022.

7.3 FAI Writ Petition No. W.P.(C) 1800/2015 in the matter of Interest on Delayed Payment of subsidy and Freight Bills

7.3.1 Fertilizer subsidy scheme for the benefit of farmers with increasing subsidy bills year after year is having impact on Government finances. Due to fiscal constraints of the Government, a large amount of unpaid subsidy dues of the industry remained unpaid and used to be carried forward from one year to the next. Unpaid subsidy dues year after year severely

impacted fertilizer industry' finances. It resulted in increase in working capital requirement and consequent increase in interest cost. Government is not paying any interest on these outstanding unpaid subsidy dues. Industry's repeated appeals and requests for payment of interest on such long pending dues did not yield any result. Hence FAI was forced to file a Writ petition in Hon'ble Delhi High Court in 2013 on behalf of industry for interest on delayed payment of subsidy and freight bills. The Hon'ble Delhi High Court directed DOF to decide the matter in terms of DOF's Office Memorandum dated 14th February, 2011. However, DOF vide its Communication No.21011/4/2013-MPR dated 6th January 2015 rejected FAI's representation in this respect. Hence, a second Writ Petition was filed in 2015.

7.3.2 Written pleadings in this case have been completed. FAI submitted data on outstanding dues as on 31st March of every year from 2013-14 to 2017-18 as per court's instruction on 25th April, 2018. However, DOF submitted affidavit on 30th October, 2019 providing status of outstanding subsidy as on 21st August, 2019 and stated that no dues were pending. DOF's plea was strongly objected to by FAI counsel submitting that DOF had tried to mislead the Hon'ble Court. Fresh data comprising age-wise, year-wise, company-wise information on outstanding subsidy was collected from companies and submitted to the Hon'ble Court by FAI on 24th February, 2020 along with data of outstanding subsidy shown in DOF's own publications, which depicted large amount of outstanding dues year after year. The respondent had sought time to examine the same. Due to COVID-19 pandemic, there has not been any progress in the matter after that. The matter was listed for 14th March, 2022 but, now relisted for 25th August, 2022.

7.4 FAI Writ Petition No.WP (C) 1822/2016 in the matter of Reimbursement of Additional Cost due to Non-recognized Input Taxation (ACTN)

7.4.1 Gujarat and Uttar Pradesh levied additional VAT on feedstock for urea. These taxes being statutory levies, fertilizer companies had no option but to pay them. But, these state levies were not reimbursed under urea policy of the Central Government. Denial of such genuine statutory cost by the Government impacted the viability of the urea units. FAI represented to the Central Government and kept pursuing for reimbursement of these taxes under pricing and subsidy policy. Finally, Central Government allowed recovery of these taxes by way

of increased MRP from the consumers of urea from respective states w.e.f. 1st April, 2011. But, recovery of these taxes prior to April 2011 remained unresolved in spite of repeated appeals by the industry and FAI. Finally, the industry filed a Writ Petition in 2016 in the Hon'ble Delhi High Court for recovery of these statutory levies for the period prior to April, 2011. The Petition was admitted by the Hon'ble Court and the case is progressing.

7.4.2 In addition to the general arguments on merit for reimbursement of unavoidable statutory costs, FAI counsel also argued that decision of the respondent not to reimburse additional taxes is per se, discriminatory, as similar tax (purchase tax) levied on natural gas has been reimbursed to one of the fertilizer companies. FAI also submitted that respondent had not replied to this aspect in its reply which was one of the arguments submitted by the petitioners. The respondent subsequently filed affidavit on this aspect and arguments were partly heard on 2nd August, 2019. Next date of hearing was 17th September, 2019. However, on 17th September, 2019, the matter was released from being part heard and listed before the Roster Bench for 24th September, 2019. After that no substantial progress has been made except adjournments and relisting on various grounds and also due to COVID-19 pandemic. It was listed for 12th April, 2022 which has now been relisted for 4th January, 2023.

7.5 Case Relating to Marketing Margin (W.P. (C) No. 6068 of 2019

7.5.1 FAI had filed a fresh petition No. W.P. (C) No. 6068 of 2019 for reimbursement of marketing margin paid on gas from KG-D6 for period prior to 18th November, 2015 which is pending in Delhi High Court. Department of Fertilizers filed a counter affidavit. FAI filed a rejoinder to the counter affidavit of the DOF. The Ministry of Petroleum and Natural Gas (MOPNG) which is also a respondent in the FAI petition filed its counter affidavit on 21st September, 2019. The same was taken on record in hearing on 23rd September, 2019. Subsequently, FAI filed a rejoinder to the counter affidavit of MOPNG. The petition was listed for hearing on 10th December, 2019. At the request of the counsel for respondents, the matter was adjourned to 14th February, 2020. The bench could not assemble on the date and the matter was listed for 18th May, 2020 and further got adjourned to 23rd October, 2020 as functioning of the court was affected due to COVID-19. It was listed a few times but could not be taken due to pandemic. Last, it was listed for 10th March, 2022 but it was adjourned to 23rd September, 2022.

8.0 ISSUES RELATED TO ENERGY CONSERVATION

8.1 Implementation of PAT in Fertilizer Sector

8.1.1 FAI had represented to the DOF and Bureau of Energy Efficiency (BEE) requesting exclusion of fertilizer plants from the PAT Scheme as there is already a mechanism under fertilizer policy for incentive and penalty for energy efficiency. The DOF supported the FAI view in its communication to the BEE. Members of FAI Technical Advisory Committee were of the view that fertilizer plants should be exempted from PAT scheme at least till 2025.

8.1.2 A meeting of the BEE Sectoral Expert Committee was held on 22nd October 2021. The Sectoral Expert Committee made recommendations to exempt the fertilizer plants from PAT Scheme till 2025. Designated Consumers (DCs) who have earned energy saving certificates should remain valid till 2025. It also recommended that complex fertilizer plants may also be exempted from the PAT Scheme in view of their very small share in the total energy consumption in fertilizer sector. Committee agreed with BEE proposal of other provisions of the Energy Conservation Act including Form I or other data to be provided to BEE to remain in force. The BEE clarified that the exclusion of fertilizer sector from the PAT Scheme will be temporary only till 2024-25. The BEE will review the status for setting up the targets beyond 2025.

8.1.3 The BEE sent a letter dated 23rd February, 2022 to the DOF with a copy to FAI seeking its views on the recommendations of the Sectoral Expert Committee. The DOF in turn forwarded the BEE letter to FAI and requested to provide the comments directly to the BEE. FAI in its reply to the BEE reaffirmed the recommendations of the Sectoral Expert Committee. Final decision of the BEE in the matter is awaited.

8.2 Study to Assess Potential for Switch over to Grid Power from Fossil Fuel Based Captive Generations

8.2.1 The BEE had initiated a project to study the potential for switchover to grid power from fossil fuel based captive generation as grid power is generated from high efficiency thermal power plants. Further, the share of renewable power is anticipated to increase in future which would further reduce the CO₂ emission factor for the grid power. Four sectors were taken up for the study *viz.* cement; iron & steel; paper & pulp; and fertilizer. A stakeholder consultation meeting was held in February 2022. FAI participated in the meeting and informed that most fertilizer plants have captive power plants, which operate in cogeneration mode

with very high overall efficiency. Fertilizer plants are continuous process plants and require reliable power supply. Even a single shutdown due to disruption in power supply will have huge energy penalty. Subsequently, a Workshop to present the finding of the study was held on 21st April 2022. It was concluded that the heat rate of captive power plants and emission factor in fertilizer sector are better than grid power on same source basis. Therefore, switch to grid power in case of fertilizer sector was not found to be feasible.

8.3 Draft Electricity (Promoting Renewable Energy through Green Energy Open Access) Rules

8.3.1 The Ministry of Power issued Draft Electricity (Promoting Renewable Energy through Green Energy Open Access) Rules, 2021 dated 16th August, 2021 for comments. The draft was circulated to all the members. FAI received comments from a few members which were consolidated and sent to the Ministry of Power for consideration on 15th September, 2021. FAI highlighted that gas based plants cogenerate steam in addition to generation of power. This steam is used in the plants as feed or as motive power for running large compressors and pumps. Many processes are highly exothermic and lot of waste heat is generated. This waste heat is used for co-generation of steam which is used in plants for various applications. It was suggested that power consumed /produced in captive power plants operating in cogeneration mode be exempted from Renewable Purchase Obligations. The waste heat recovery and its utilization should also be considered as equivalent to green energy. Terms of contract between the discom /distribution licensees and consumers for green quantum of energy should be on equitable basis *i.e.* any charges for non-use or non-supply should be same for both parties. Final notification in this regard has not been issued yet.

8.4 Green Hydrogen Policy

8.4.1 The Ministry of Power vide communication No. 23/02/2022-R&R dated 17th February, 2022 notified the Green Hydrogen Policy. The policy provides for measures/incentives to facilitate production of green hydrogen/green ammonia in the country. A copy of the same was circulated to the members.

8.4.2 The policy *inter-alia* provides for waiver of interstate transmission charges for a period of 25 years to the producer of green hydrogen/green ammonia for the projects commissioned before 30th June, 2025. Manufactures of green hydrogen/green ammonia can use renewable energy from co-located renewable energy plant or sourced from a remotely located

renewable energy plants, whether setup by same developer or third party or procured from power exchange. Banking for renewable energy has been permitted for a period of 30 days. Land in the renewable energy parks can be allotted for manufacture of green hydrogen/green ammonia. Government of India has proposed to set up manufacturing zones where green hydrogen/green ammonia production plant can be setup. Manufactures of green hydrogen/green ammonia shall be allowed to setup bunker near ports for storage of green ammonia for export / use by shipping. The land for such storage purpose will be provided by the respective port authorities. The renewable energy consumed for the production of green hydrogen/green ammonia shall count towards Renewable Purchase Obligation compliance of the consuming entity. Ministry of New and Renewable Energy will also establish mechanism to achieve competitive prices for green hydrogen/green ammonia.

8.4.3 In order to assess the level of developments of technologies for production of green hydrogen and green ammonia, FAI in collaboration with Indian Institute of Technology (IIT), Delhi and Indian Institute of Chemical Engineers (Northern Regional Centre) organised a Seminar on “Production and Use of Green Hydrogen and Green Ammonia in Process Industry” during 24th – 25th June, 2022 at IIT Delhi.

8.5 Special Issue of Indian Journal of Fertilisers

8.5.1 The July 2021 issue of Indian Journal of Fertilisers was devoted to the theme of “Energy Conservation in Fertilizer Plants”. The issue consisted of six papers highlighting the efforts of ammonia, urea, acids and complex fertilizer plants in conserving energy. It included a paper by FAI which documented energy conservation efforts of ammonia and urea plants during last few years.

8.6 Think Tank for Innovation in Fertilizer Sector

8.6.1 Department of Fertilizers has constituted a Think Tank for Innovation in Fertilizer Sector. The Think Tank comprises members from DOF, Ministry of Agriculture and Farmers Welfare, Fertilizer Industry, FAI and traders. The first meeting of the think tank on 30th March, 2022 was chaired by the Secretary (Fertilizers). FAI provided its inputs during the meeting. It was followed up by providing notes to the DOF on potential indigenous sources for recovery of potash and ways to improve utilization of phosphogypsum in the country.

9.0 ISSUES RELATED TO SUPPLY OF NATURAL GAS

9.1 Natural Gas Consumption

9.1.1 Almost entire production of urea has been converted to natural gas feedstock. One plant is partially using naphtha in reformer and a few other plants are using coal for steam and power generation. Two new gas based urea plants have started operation in 2021. One of these plants is partially utilizing Coal Bed Methane and rest of the requirement is met by imported gas. The quantities of domestic gas supplied to fertilizer plants have been declining continuously. In 2021-22, only 2.91 BCM of domestic gas was supplied which constituted only 17.6% of total gas supplied to urea plants.

10.0 ENVIRONMENT AND SAFETY RELATED ISSUES

10.1 Plastic Waste Management Rules

10.1.1 FAI has been representing to the Central Pollution Control Board (CPCB) and the Ministry of Environment, Forests and Climate Change (MOEFCC) on the issues related to implementation of Plastic Waste Management (PWM) Rules. The fertilizer companies were facing issues related to preparation of action plan based on Standard Operating Procedure (SOP) under PWM Rules issued by CPCB in March 2021. FAI made a detailed representation to the Chairman, CPCB vide letter dated 18th June, 2021 and highlighted the problems faced by member companies in implementation of the PWM Rules. A letter was also sent to the Secretary (Fertilizers) apprising about the issues. It was also underlined that fertilizer companies have to incur additional expenditure to comply with the PWM Rules and requested that it should be recognized as a cost in the urea subsidy policy.

10.1.2 In the FAI Environment Advisory Committee on 2nd September, 2021, Ms. Divya Sinha, Additional Director, CPCB, Delhi clarified the queries of each member present in the meeting related to classification of bags, registration procedure, reporting, and compliance requirements. She advised the members to start implementing the action plan even before formality of registration.

10.1.3 Subsequently, the MOEFCC issued a draft Extended Producers Responsibility (EPR) guidelines dated 6th October, 2021. The draft notification specifies a recycle target of 35%, 70% and 100% for 2021-22, 2022-23 and 2023-24, respectively. The draft

notification also provides 25% deviation to registered brand owners in state-wise compliance during 2021-22 to 2024. FAI represented to CPCB on 14th October, 2021 to allow members flexibility in meeting the EPR target and deviations as per the draft notification. The CPCB, then issued a notice dated 20th October, 2021 mentioning that registration process has been kept in abeyance for 3 months. It also allowed Producers, Importers and Brand Owners (PIBOs) to realign their target as per the said draft notification during the intervening period. FAI consolidated the comments received from the members on the draft notification and sent for the consideration of the MOEFCC on 3rd December, 2021.

10.1.4 The MOEFCC vide GSR 133 (E) dated 16th February, 2022 notified the Guidelines on EPR for plastic packaging as a Schedule II to the PWM (Amendment) Rules, 2022. A few issues raised by us have been addressed in the notified guidelines. Some of the important features are as follows:

- ◆ The Guidelines shall come in force with immediate effect. The on-going processes related to EPR obligations will be aligned with these guidelines.
- ◆ An entity falling in more than one sub-category *viz.* producer, importer or brand owner has to register under each sub-category separately and entity having operating units under a sub-category in different states has to register separately. The CPCB shall prescribe the SOP for registration.
- ◆ The EPR target for the 2021-22 year has been reduced to 25% from 35% as proposed in the draft. The EPR targets will be 70% for 2022-23 and 100% in 2023-24.
- ◆ The EPR target will be applicable on virgin plastic packaging material which means the quantum of recycled plastic used in the plastic packaging material will be excluded from the obligation.
- ◆ State-wise obligations for EPR requirement proposed in the draft have been removed.
- ◆ There is a provision to ensure minimum recycling excluding end of life disposal for each category of waste. End of the life disposal means using plastic waste for generation of energy and includes co-processing (*e.g.* in cement kilns) or waste to oil or for road construction as per Indian Road Congress Guidelines.
- ◆ There is also a provision to utilize recycled plastic in plastic packaging from the year 2025-26. In case it is not possible to utilize the recycled plastic due to statutory requirement, exemption will be

granted on case to case basis. However, Producers, Importers & Brand Owners (PIBOs) have to fulfill this obligation by purchasing certificate of equivalent quantity from PIBOs who have used recycled content in excess of their obligations.

- ◆ PIBOs are required to provide details of fulfillment of EPR obligation by filing annual return up to 30th June of next financial year. This has been relaxed from earlier requirement of half yearly return filing.
- ◆ Excess EPR obligations can be carried forward in succeeding year. Surplus in one category can only be used for off-setting, carry forward and sale in the same category. EPR obligations can be met by purchasing surplus EPR certificates from other PIBOs of the same category.
- ◆ There is a provision of Environmental Compensation in case of not fulfilling the EPR obligations. This, however, does not absolve a PIBOs of the obligations set out in the guidelines. The unfulfilled EPR obligations for a particular year will be carried forward to the next year for a period of three years. There is also a provision for partial refund of environmental compensation based on the year of fulfillment of EPR obligation.
- ◆ A Committee under the Chairmanship of Chairman, CPCB will monitor the implementation of EPR and take measures for removal of difficulties. The Committee includes representatives of regulators, government department/ ministries, institutes like CIPET, NEERI and members from 3 industry associations.

10.2 Standard Operating Procedure for Utilization of ETP Sludge of Fertilizer Industry in Manufacturing of Di-Ammonium Phosphate /NPK Fertilizers

10.2.1 The CPCB issued SOP for “Utilization of ETP Sludge of Fertilizer Industry in Manufacturing of Di-Ammonium Phosphate (DAP)/NPK Fertilizer” in December 2021. The SOP was circulated to the concerned fertilizer companies. The SOP stipulates various conditions for utilization including labeling requirement, monitoring of certain parameters in emissions and heavy metals in the product. Based on the comments received by the members, FAI represented to the CPCB on 30th March, 2022 to address these issues. In response, the CPCB vide letter 11th April, 2022 provided some clarifications. Some issues related to classification of ETP sludge, utilization of dry ETP sludge, monitoring of parameters in air emissions and heavy metals in the products were not addressed in the letter. These issues were further

discussed with CPCB officials in a meeting arranged by FAI.

10.3 Nitric Acid Climate Action Group Initiative

10.3.1 Nitric Acid Climate Action Group (NACAG) is an initiative by Germany to mitigate nitrous oxide (N₂O) emissions from nitric acid plants around the world. The NACAG provides the technical support and additionally offers financial support for installation and operation of abatement technology and monitoring equipment. For receiving financial support, it requires involvement of Indian Government with certain commitments post 2023 including design and implementation of suitable policies, regulations and/or incentive mechanisms to permanently mitigate N₂O emissions in the nitric acid plant.

10.3.2 The FAI received a letter dated 30th June, 2021 from the DOF requesting comments on the NACAG initiative. FAI sent a note to the DOF mentioning that fertilizer plants account for only a small part of total nitric acid produced in the country. Therefore, all nitric acid producers (fertilizer and non-fertilizers) should be consulted before any commitment made by the Government of India. Fertilizer companies have also provided comments individually. FAI again received a letter on 20th October, 2021 from the DOF seeking FAI views on the draft proposal for the project. The draft was circulated again to the concerned member companies. Comments received from two out of four concerned companies, were forwarded to the DOF. Meanwhile, M/s Smartchem Technologies Limited organized a meeting which was attended by consultants from N₂O abatement technology providers, CPCB and some concerned member companies. The doubts of the members regarding technology were clarified. However, emission standards for N₂O required detail deliberations.

10.4 Utilization of Phosphogypsum

10.4.1 The Ministry of Industry and Commerce, Government of India set up a Working Group for Achieving Circular Economy in phosphogypsum. FAI and a few member companies were members of the Working Group. Working Group prepared a report and made wide range of recommendations for utilization of legacy stock. This included improving logistics and conducive policy initiatives on utilization of phosphogypsum. FAI made a representation to the DOF on 22nd December, 2021 with a note for promoting utilization of phosphogypsum. It was requested to

take up the matter appropriately with the Ministry of Railways and the Ministry of Ports, Shipping and Waterways to resolve the logistic issues.

10.4.2 IFA constituted a Phosphogypsum Working Group where the developments and issues related to utilization of phosphogypsum around the globe are discussed. IFA has published two reports on sustainable management and use of phosphogypsum in 2016 and 2020. It covered the status of phosphogypsum generation and utilization in various countries. FAI made contribution to both the reports. A meeting of the Working Group was held on 15th December, 2021 virtually. FAI made a presentation on the status of generation, management and utilization of phosphogypsum in India. The recommendations of the report prepared by the Working Group under the Ministry of Industry and Commerce were also presented.

10.5 Safety Performance of Fertilizer Plants

10.5.1 FAI carries out safety performance evaluation of fertilizer plants every five years. The latest study was carried out for the period 2015-16 to 2019-2020. The status paper on safety performance of fertilizer plants was published in December 2021 issue of Indian Journal of Fertilisers. During 2015-2020 period, there was reduction in number of injuries. The safety indices viz. the loss time injury rate and severity rates were lower at an average of 0.22 and 0.10, respectively than the previous survey period of 2010-2015. The fatal accidents also showed significant reduction. The longest accident free period of operation improved from an average of 847 in 2010-15 to an average of 1150 days in 2015-20 period. The paper also presented the cause-wise and area-wise analysis of accidents. Benchmarking report of individual plants with respect to key parameters was provided to each participating plant.

10.6 Guide for Treatment and Disposal of Effluents of Fertilizer Industry

10.6.1 As informed last year, BIS requested FAI to prepare a Guide for Treatment and Disposal of Effluents of Fertilizer Industry. FAI prepared a draft of the Guide for Treatment and Disposal of Effluents of Fertilizer Industry with the help of a consultant. The Draft Guide was circulated a few times to the members for comments. FAI received a few comments and were incorporated in the Draft. The Draft Guide was submitted to BIS which in turn circulated the Draft to Technical Committee (CHD 32) members for

comments. The comments received on the Draft Guide were suitably addressed by FAI. In a meeting held on 19th January 2022, the Committee approved the Guide for printing.

11.0 EFFORTS FOR SUSTAINABILITY IN FERTILIZER INDUSTRY

11.1 IFA Sustainability Committee

11.1.1 As a part of its strategy, International Fertilizer Association (IFA) merged its Agriculture Committee and Technical & SHE Committee into a new Sustainability Committee. A new Strategic Advisory Team (SAT) has also been constituted as part of Sustainability Committee. Dr. S. Nand, Additional Director General, FAI was earlier member of SAT for Technical & SHE Committee for 2019-21. He has been retained as member of SAT of new Committee for the years 2021-22.

11.1.2 The 1st meeting of IFA Strategic Advisory Team of Sustainability Committee was held virtually on 13th July, 2021. The eight top priorities of Sustainability Committee include nitrogen technology road map; carbon dioxide reduction commitments; nutrient stewardship roadmap; nutrient stewardship benchmark; Sustainability Committee Vision; IFA sustainability principles; sustainability metrics; and sustainable fertilizer academy. During the meeting, the developments in the priority areas were discussed.

11.2 IFA Nitrogen Technology Roadmap

11.2.1 IFA provided a draft report of Nitrogen Technology Roadmap for sustainable nitrogen fertilizer prepared by International Energy Agency. This technology roadmap uses scenario analysis to explore three possible futures for ammonia production viz. Stated Policy Scenario, Sustainable Development Scenario and Net Zero Emission by 2050 Scenario. In the Stated Policies Scenario, it has been assumed that the industry will follow current trends and make incremental improvements but fall well short of a sustainable trajectory. The Sustainable Development Scenario considered adoption of the technologies and policies required to put ammonia industry on a pathway aligned with the goals of the Paris Agreement. The Net Zero Emissions by 2050 Scenario describes a trajectory for the ammonia industry that is compatible with reaching net zero emissions globally for the energy system by 2050. A chapter in the roadmap outlines the necessary roles and actions of key stakeholders, namely governments, producers, and financial and research institutions for achieving the goal of net zero emission.

11.2.2 FAI peer reviewed the report and suggested International Energy Agency (IEA) to include the achievement of Indian Fertilizer Industry with respect to energy efficiency and carbon dioxide emission. Final report of IEA on “Ammonia Technology Roadmap: Towards More Sustainable Nitrogen Fertilizer Production” was released on 11th October, 2021. FAI’s suggestions were duly incorporated in the final report. It has been mentioned in the report that in the past three decades, India’s ammonia plants have reduced carbon dioxide emission by 45% and energy consumption by 34%.

11.3 IFA - Sustainability Fertilizer Academy

11.3.1 IFA will be launching a Sustainable Fertilizer Academy (SFA) in middle of the Year 2022. Through this Academy, IFA plans to provide an e-learning platform for industry professionals to learn about sustainability in all its facets including sourcing, production and use of fertilizer products on the farm. The curriculum will focus on the sustainability methodology, its implementation in the fertilizer industry, as well as the nutrient stewardship to outcomes on the farm.

11.3.2 All courses will be provided in collaboration with leading educational institutions, industry companies/associations and experts. FAI has provided a lecture on the efforts of Indian fertilizer industry towards sustainable fertilizer production.

12.0 DEVELOPMENTS RELATED TO FERTILISER CONTROL ORDER

12.1 Central Fertilizer Committee Meeting

12.1.1 Seventy-first meeting of the Central Fertilizer Committee (CFC) was held on 22nd June, 2021 through video-conferencing under the Chairmanship of Agriculture Commissioner, Ministry of Agriculture and Farmer’s Welfare (MOA&FW), Government of India, New Delhi. FAI participated in this meeting. In all, sixteen items came up for discussion. Some of the important developments and recommendations, which emerged out of the deliberations in CFC meeting, are given below:

12.2 E-marketing of Fertilizers

12.2.1 Proposal to allow the E-marketing of fertilizers came up for discussion in CFC meeting. It was expressed that the E-marketing of fertilizers has not been permitted so far due to various concerns linked to regulating supply, sale and quality control of fertilizers. However, it was felt that the E-marketing for organic fertilizers and other non-subsidized

fertilizers may be allowed as the production and supplies of these products are not regulated by the Government. Three models for E-marketing of fertilizers along with issues involved and amendments required in FCO, were proposed in the meeting.

12.2.2 Chairperson stated that the concept proposed for E-marketing of fertilizers is remarkable, which lays emphasis on the involvement of both State Governments and Stakeholders for its ground level implementation. Further, it takes into consideration the interconnected issues like spillover of liquid fertilizers, quality check, packaging, transportation, exact delivery and harmful effects, if any. The CFC after deliberations requested FAI to consult all the stakeholders including dealers and submit a detailed concept note.

12.2.3 FAI Board in its 401st meeting on 25th November, 2021 approved in principle the E-marketing of fertilizers as a way forward. It was stated that many companies are already in E-marketing of non-subsidized fertilizers. There are issues of the additional cost of home delivery and entitlement for subsidy as far as subsidized fertilizers are concerned. Board advised that the matter may be taken up in the FAI Marketing Advisory Committee.

12.2.4 The meeting of Marketing Advisory Committee held on 28th January, 2022 discussed the matter of E-marketing of fertilizers. It was expressed that E-marketing of fertilizers should be allowed and to begin with it should be restricted to non-subsidized fertilizers. E-marketing should be approved as a concept and not as the model. It should be left to the company to decide on the model to follow. Pricing part is very important in E-marketing and ex-gate price from the dealer should be considered. Definition of E-marketer should be given in FCO to legalize E-marketing. There should be a national level registration / E-retailer license for E-marketing.

12.3 Label-based Fertilizer Registration

12.3.1 Matter related to the label-based fertilizer registration has been in discussion for quite some time. During the *Chintan Shivir*, Working Group on 'Administrative and Legal Reform in Fertilizer Sector' also discussed the matter and referred it to the CFC. After detailed discussion on the subject, the CFC directed to form a Committee under the chairmanship of DDG (NRM), ICAR to look into the matter and make a recommendation in this regard along with broad guidelines.

12.4 Inclusion of Auto-analyzers

12.4.1 The proposal for inclusion of auto-analyzer was placed before CFC to consider its possible inclusion as necessary equipment for enhancing the analytical capacity of laboratories. The Director, CFQC&TI explained about the functioning, usefulness and also drawback of auto-analyzer(s). He placed before the CFC comparative data on analysis of urea sample carried out both by FCO method and through auto-analyzer. CFC, after detailed deliberations, agreed in principle to recommend the inclusion of auto-analyzer as essential lab equipment under FCO. The CFC directed Director, CFQC&TI to provide the detailed method of analysis and also the comparative analysis data for other fertilizers.

12.5 Inclusion of 20-8-12, 14-5-21 and 14-14-14

12.5.1 A proposal for inclusion of three products *viz.* 20-8-12; 14-5-21 and 14-14-14 in FCO came up for discussion in CFC meeting. It was informed that these products are essentially produced from the same raw materials as are already listed for the products in the FCO. These are mere variants of products already included in FCO. It was requested for inclusion of these three products in FCO without agronomic trials.

12.5.2 It was informed that this issue was also discussed in the earlier meeting of CFC. The company was asked to provide trial data under Indian conditions which is still being awaited. The CFC reiterated its earlier stand that for inclusion of these products in FCO, the trials under Indian conditions are required.

12.6 Amendment in the Specification of Orthosilicic Acid

12.6.1 A proposal for making an amendment in the pH specification of Ortho Silicic Acid (OSA) 2.0% WSL was discussed in CFC meeting. The representative of the company made a presentation and explained that based on the field trials, OSA imparts resistance to microbial attack. It is unstable at acidic pH and polymerizes to silica gel. During the course of deliberations, the issue was raised that silicon is a beneficial element and it also acts as a bio-stimulant. CFC observed that role of silicon based products needs to be examined from the perspective as to whether it is to be categorized as source of nutrient *i.e.* fertilizer or as a bio-stimulant.

12.7 Allowing Data of Bio-efficacy Trials of Imported Fertilizers Done in Other Countries

12.7.1 During the *Chintan Shivir*, one of the

recommendations was that the importers may be allowed to use the data already generated on the foreign soil and dispense with the requirement of conducting bio-efficacy/agronomic trials under the indigenous conditions. The CFC observed that on the basis of different climatic conditions, different agro-climatic zones have been identified in the country. The soils of these regions vary in terms of texture, nutrient value, etc. Also the cropping pattern varies from region to region. Therefore, the CFC was of the view that it is not possible to consider the data generated in other countries for introduction of new products in our country. The agronomic trials under the indigenous conditions are a must.

12.8 Inclusion of Hygienised and Enriched Sludge/ Bio Solids as Organic Fertilizer

12.8.1 CFC was briefed about the proposal of Ahmedabad Municipal Corporation (AMC) for inclusion of hygienised and enriched sludge/bio solids for agricultural applications in FCO as the organic fertilizer. The Committee observed that product contains heavy metals which are higher than the limits notified for the city compost. AMC was advised to explore the possibility of keeping the product specifications in the prescribed range of city compost or vermi compost. The comments on the use of sludge in agriculture from Ministry of Environment, Forest and Climate Change (MOEFCC) were sought by the INM Division. Officials from MoEFCC shared their views on the proposal and stated that CPCB has already been requested to examine the matter expeditiously. The CFC emphasized on the need to ensure safety aspects and requested the representative of the MOEFCC to expedite the matter with the CPCB and also requested AMC to share the information available with CPCB.

12.9 Inclusion of Solid Sludge-based Organic Fertilizer

12.9.1 A proposal for considering the solid sludge generated in Sewage Treatment Plants (STPs) under the category of city compost was discussed in CFC meeting. It was informed that the company has shortlisted the technology for converting solid waste generated in STPs into an organic fertilizer. The organic fertilizer produced is assured to meet the specifications for city compost. The proposed organic fertilizer product will not have any pathogens and the heavy metals will also be within limits.

12.9.2 After detailed deliberations, CFC observed that since the issue involved is as to whether the sludge be

permitted to be used for agriculture purpose, the matter would be considered only after receiving the comments from CPCB.

12.10 Inclusion of New Fertilizers

12.10.1 The inclusion of new fertilizers in FCO is an ongoing process. With the continuous efforts of FAI, the procedure for inclusion of new fertilizers has been simplified to some extent and efforts are being made to get it further simplified/ streamlined. A number of new products and other amendments notified upto July 2021 were included in the 19th Edition of FCO published in July, 2021. Thereafter, two liquid fertilizers namely, i) Potassium Thiosulphate ($K_2S_2O_3$) and ii) Calcium Thiosulphate (CaS_2O_3) have been included in FCO. Further, the phosphogypsum earlier notified as provisional fertilizer has again been notified as provisional fertilizer.

12.11 FCO Amendments

12.11.1 Amendments are carried out in FCO from time to time to address the quality related issues. A number of amendments have been issued in FCO after July, 2021. The date to submit an application to Controller for grant of Provisional Registration for Bio-stimulants has been extended from 31st March, 2022 to 30th September, 2022. Maintaining digital stock register has been allowed by amending sub-clause (a) of Clause 35 of FCO. The magnesium content (maximum) of zinc polyphosphate has been amended to 9.0% from 3.0%. The method of analysis of zinc polyphosphate has been in part B of schedule-II of FCO. Clarity has been given in FCO for filing the case in court by inserting a new clause (19A) in FCO.

“19 A. In cases where the samples were drawn from the dealers out of original sound bags (without any mark of tempering) and are found non-standard, then in such circumstances both dealer and manufacturer shall be made party for filing the case in the concerned court under the Act and proceedings under clause 31 of this Order”.

13.0 FORMULATION OF 'INTEGRATED PLANT NUTRITION MANAGEMENT ACT, 2022

13.1 The Department of Fertilizers is in the process of formulating an 'Integrated Plant Nutrition Management Act (IPNMA), 2022 that aims to regulate all aspects of fertilizers including manufacturing, quality control, distribution and pricing in India. In this context, a Committee under the joint chairmanship of Secretary (Fertilizers) & Secretary (DA&FW) with representatives from DA&FW, FAI,

and Fertilizer Industry as members was constituted to decide on broad framework of the proposed Act with reference to Fertiliser (Control) Order 1985.

13.2 In first meeting of the Committee, FAI expressed that law should be farmer friendly to provide quality nutrients at reasonable prices and industry friendly free from malpractices. The approvals by the state authorities should be on-line. The law should end/reduce unfair practices at the hands of state implementation authorities. The punishment should commensurate with the degree of offence. Spurious, grossly sub-standard and sub-standard with minor deviations should be dealt with different penalties. There should be provision of compounding for minor offences/deviations. Since, the proposed Fertilizer Act will deal with promotion & use of chemical fertilizers, biofertilizers, organic fertilizers, bio-stimulants, nano-fertilizers, etc. it may be named as the Plant Nutrition Act.

13.3 Under the guidance of the said Committee, DOF prepared a draft 'Integrated Plant Nutrition Management Act (IPNMA).' FAI circulated the draft to the Board of Directors with a request to provide comments / suggestions on the proposed Act. After receiving the comments, FAI prepared a comprehensive note including FAI and Companies comments/suggestions on the draft Act and sent it to DOF on 8th February, 2022. A copy of the same was circulated to Board of Directors.

13.4 The objectives of the proposed Act seek to promote balanced use of fertilizers, improve ease of doing business, promote innovation, support farmers' welfare, and self-sufficiency or Aatma Nirbharta. Feedback and comments mentioned that the provisions of the Act are not in consonance with these laudable objectives. It seeks control through licensing, regulation, directions, penalty, etc. The proposed Act enables the Central Government to exercise price control for any fertilizer sold in the market. This is at variance with the existing pricing policy which allows the Government to fix maximum retail price (MRP) for urea only. There is mention of label claim, but it is not clear enough. The power to investigate *suo motto* in proposed Act will cause unnecessary fear in the minds of manufacturers and will also discourage further new investment.

13.5 The penalties provided for offences are harsh in nature. The penalty must be quantified and the upper cap may commensurate with the nature of offence. All the offences except misbranding and

spurious fertilizer should be compoundable. Offence should be compoundable irrespective of number of times. Subsidy should be product-agnostic and be passed on directly to the farmers. Farmers should be free to make informed choices on the product best suited for their local needs. Apart from Central and State Government laboratories, NABL-accredited private labs should be allowed for testing fertilizer samples. This will reduce the burden on state-run laboratories and bring speed into the system.

14.0 INITIATIVES TO IMPROVE FERTILIZER USE EFFICIENCY

14.1 Special Issue of Indian Journal of Fertilisers on Specialty Fertilizers

14.1.1 Low and declining use efficiency of bulk fertilizers has underlined the use of more efficient innovative / specialty fertilizers. Consumer demand is also witnessing a paradigm shift from traditional to specialty fertilizers, particularly in the high value crops. The use of specialty fertilizers, particularly WSFs, is increasing rapidly in our country but its share is still very low *vis-a-vis* the global market. FAI devoted April 2021 issue of the Indian Journal of Fertilisers (IJF) on Specialty Fertilizers. The main objective of the special issue was to present the current status and highlight the increasing need for specialty fertilizers in Indian agriculture. The special issue included eight articles covering latest information on various aspects of specialty fertilizers.

14.2 Special Issue of IJF on Agri Innovations to Combat Food and Nutrition Challenges

14.2.1 The Indian Society of Agronomy in collaboration with Professor Jayashankar Telangana State Agricultural University (PJTSAU), Hyderabad organized the Fifth International Agronomy Congress "Agri Innovations to Combat Food and Nutrition Challenges" at PJTSAU, Hyderabad, Telangana during November 23-27, 2021. To commemorate this occasion, the FAI brought out the November 2021 issue of IJF on the theme of the Congress. Eight papers covering the whole canvass of the Congress were published in the November issue of IJF.

14.3 Webinar on Recent Developments in Fertiliser (Control) Order

14.3.1 The Fertiliser Association of India organized a Webinar on Recent Developments in Fertiliser (Control) Order on 10th June, 2021. Over 200 delegates

representing Fertilizer Industry, Indian Council of Agricultural Research (ICAR), and Ministry of Agriculture and Farmers Welfare participated in the Webinar. Dr. S.K. Chaudhari, Deputy Director General (NRM), ICAR, gave the introductory remarks. Dr. S.K. Malhotra, Agriculture Commissioner and Chairman, Central Fertilizer Committee (CFC), Government of India, delivered the opening address. In all six presentations were made in the two technical sessions.

14.4 Brainstorming Session on Safe Use of Fertilizers and Other Agrochemicals

14.4.1 A Brainstorming Session on Safe Use of Fertilizers and Other Agrochemicals was organized by NRM Division of ICAR on 19th July, 2021 under the Chairmanship of DG, ICAR. DDG (NRM) apprised the delegates about the concerns voiced by Hon'ble Prime Minister on use of chemical fertilizers and their impact on human health and environment. Over forty participants from ICAR/SAUs/DOA&FW and various other line departments attended the session. From FAI, Director (Agricultural Sciences) attended. Recommendations of the brainstorming session were circulated to the FAI Board Members on 24th August, 2021.

15.0 METHODOLOGY FOR CALCULATION OF AVERAGE SALE PRICE FOR GLAUCONITE AND POTASH

15.1 Department of Fertilizers vide letter dated 9th November, 2021 sought the comments of FAI on the proposal of Ministry of Mines regarding the methodology for calculation of average sale price and royalty for different minerals, particularly glauconite and potash. After going through the proposal, FAI sent following comments to the Secretary (Fertilizers).

- (i) The initiative of Ministry of Mines to work on the modalities of commercial mining of glauconite and potash needs appreciation as India is entirely dependent on imports to meet its potash demand. Encouraging indigenous mining of glauconite is in the national interest. It would help in reducing potash imports and containing import price of potassic fertilizers.
- (ii) The development of glauconite as a source of potential K fertilizer is a complex task. Attracting private investment in mining of glauconite is going to be a daunting challenge. We have to provide commercial incentive to begin with. In this regard, an article on Development Feasibilities of Glauconite as an Alternate Source of Potash in

India: Pros and Cons by Ranjit Choudhuri and Arvind Mathur, was published in March 2021 issue of IJF.

- (iii) Fixing rate of royalty for glauconite mineral on the basis of rock phosphate (6% of the average sale price on *ad valorem* basis) mineral may not be advisable.
- (iv) We feel that the rate of royalty of glauconite mineral or any potash derived from it should be on per tonne basis and not based on *ad valorem* basis or international price of muriate of potash (MOP). To begin with, the rate of royalty may be nil. It may be reviewed after some time depending on the progress of mining of this mineral in India.

16.0 57th FAI ANNUAL SEMINAR

16.1 FAI Annual Seminar over the years has emerged as one of the most important international events for those connected with fertilizer and agriculture. The 57th FAI Annual Seminar was held during 1-3 December, 2021 on the theme 'Challenges in Fertilizer and Agriculture'. It was organized in hybrid form due to COVID-19 related restrictions. Inaugural function on the 1st December, 2021 was held in physical form with limited gathering and the proceedings were streamed virtually for around 800 participants across the globe. The Seminar was inaugurated by Dr. Trilochan Mohapatra, Secretary, Department of Agricultural Research and Education and Director General, ICAR. The technical sessions during the next two days were held virtually. In total 16 presentations were made by eminent speakers in 4 technical sessions viz., (i) Challenges of Indian Fertilizer Sector, (ii) Meeting Challenges in Agriculture, (iii) Sustainable Fertilizer Production, and (iv) Strategies for Fertilizer Marketing. The speakers included wide range of stakeholders including Government representatives, industry leaders, technical experts, policy makers and representatives of leading international think tanks in the field of agriculture and fertilizers. The Seminar generated valuable conclusions and recommendations for the policy makers.

16.2 Important among those recommendations were the need for reforms in the Indian fertilizer sector. It was underlined that business as usual will continue to take the country down the road of degraded soil, poor farm income, adverse impact on environment and wastage of precious natural resources. Emphasis was laid on the need for revision in fixed cost for urea including one time revision to address the past increases and then linking it to appropriate cost index

to take care of future increases, provision of minimum fixed cost, need for enabling recovery of investments in energy saving projects and incentives for coal using units. There was consensus among speakers regarding implementation of NBS policy for urea for promoting balanced fertilization. Measures for P & K sector included need for reduction / exemption of customs duty for major raw materials, intermediates used in fertilizer manufacturing and diplomatic & financial support to domestic industry for investment in mining and manufacturing assets in resource rich countries. Implementation of DBT in true sense where subsidy is paid directly in the bank account of farmers was also suggested. The need for adequate budget allocation for ensuring timely payment of subsidy as per notified government policy was stressed. It was acknowledged that government's initiative in allocating higher amounts for fertilizer subsidy during the past two years have helped in ensuring adequate availability of fertilizers and insulating the farmers from unprecedented rise in cost of fertilizers and raw materials in the international markets.

16.3 The need for balanced and integrated use of all plant nutrients was emphasized including the use of organic and bio-fertilizers with use of more innovative and efficient fertilizer products like liquid, specialty, water soluble and nano-fertilizers. Similarly, use of modern technologies for application of fertilizers including use of drone for improving fertilizer use efficiency, reducing cost and improving crop yield was recommended. Issues like exploring possibility of using green hydrogen in fertilizer manufacturing, reducing greenhouse gas emissions from fertilizer & agriculture and minimising environmental damages were also discussed for effective measures.

17.0 INTERNATIONAL RELATIONS

17.1 FAI, with its professional services and valuable contributions to the industry over the years, has emerged as an important organisation in the field of agriculture and fertilizers. Its views on concerned issues are widely acclaimed and solicited both nationally and internationally. Apart from its representation and participation in national level research and decision-making forums including Government, FAI maintains cordial relations and exchanges information with number of reputed international organisations. Some of these organisations include Food and Agriculture Organization (FAO), Rome; The International Fertilizer Association (IFA), Paris; The Sulphur Institute (TSI), Washington DC; The International

Potash Institute (IPI), Switzerland; International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Hyderabad, India; International Fertilizer Development Centre (IFDC), Muscle Shoals, USA; International Rice Research Institute (IRRI), Los Banos, Philippines; International Maize and Wheat Improvement Center (CIMMYT), Mexico; International Zinc Association (IZA), Belgium; and many others. This helps to promote better understanding of the global developments and their impact on the Indian fertilizer and agriculture sectors.

18.0 FAI WEBSITE (www.faidelhi.org)

18.1 FAI website, www.faidelhi.org was launched during 2000-01. It has been always the endeavour in FAI to update the members and other users with up-to-date information through this channel. FAI website has been providing wealth of information to its members and other users. In addition to statistical data and maps, other information *inter-alia* includes subjects like environmental issues, energy consumption, government notifications, fertilizer policy developments (highlights), reports and Abstract Service. Daily news bulletins are also posted on the website. FAI website provides on-line registration facility to the delegates of FAI Annual Seminar held during November/December every year. The website has many additional features including virtual library, FAI Competition Compliance Policy, Social media sites, Blogs, Press releases, etc.

18.2 In addition to the classified information available on FAI website, news items relating to the development in the fertilizer and agriculture sectors and other key information are sent to the web members regularly on the working days. The site has received good response from its members and other users.

18.3 The number of subscribers of the FAI website as on 31st March, 2022 was as under:

Active	:	9
Associate	:	29
Total		38

19.0 IT INFRASTRUCTURE IN FAI

19.1 Dedicated Internet Lease Line

20.1.1 In view of the COVID-19 pandemic, holding of FAI Board meetings, AGM, training programmes and other meetings in physical gathering were not possible. Conducting meetings, programmes, etc., through virtual media became a necessity. Therefore,

a dedicated bandwidth internet lease line of 10 MBPS (1:1) was installed in FAI in October 2020 with necessary installation set up to organize various programmes through virtual media. Airtel has been the internet service provider and Webex is the platform for conducting such programmes on virtual platform.

19.1.2 This facilitated organization of FAI Annual Seminar, Board meetings, AGM, training programmes and advisory committee meetings during 2020-21 and 2021-22. This has also facilitated attendance of FAI officials in meeting conducted by various government ministries/departments and international organizations. In addition to events of head office, the programmes/meetings of the Regional Offices of FAI are also being conducted with these facilities.

20.0 PUBLIC RELATIONS

20.1 FAI continued to interact with media and provided relevant inputs/information on various developments in the fertilizer sector. Interactions were aimed to facilitate accurate reporting of developments and also to reflect industry views. During the year direct live and audio telecast and recorded interviews were carried out by many business TV channels in English and Hindi. Important editorials were circulated to the media to keep them updated about the sector and take the inputs from the same to cover in their daily.

20.2 The press releases were given on issues of concern to the fertilizer industry. These were covered by leading business and economic dailies during the year. Prominent newspapers/magazines and news agencies published report of the industry based on the Annual Review of Fertilizer Production and Consumption and editorials in Indian Journal of Fertilisers.

20.3 Media personnel were invited to attend the inaugural session of the FAI Annual Seminar on 1st December, 2021 at India Habitat Centre and also to participate in the technical sessions on 2-3 December, 2021. The Seminar was covered by national and regional dailies, business and economic newspapers, All India Radio, Delhi Doordarshan, etc.

20.4 An informative article titled 'Meeting Challenges in Indian Agriculture' authored by Mr. K.S. Raju, Chairman, FAI was published in Delhi edition of the Financial Express; and all editions of HT Mint on 1st December, 2021.

20.5 During 2021-22, five special issues of Indian Journal of Fertilisers were brought out related to agriculture, technology, marketing and Annual Seminar. January 2021 issue gave highlights of FAI Annual Seminar. Three special issues of Khad Patrika (Hindi) each on *kharif*, *rabi* and *zaid* were also published. The highlights of FAI Annual Seminar were also brought out in February 2022 issue of Khad Patrika. Fertiliser Marketing News published articles related to marketing and logistics. It also covered Annual Seminar in January 2022 issue.

21.0 AWARDS OF EXCELLENCE

21.1 FAI continues to reward excellence in various functional areas viz., production, environment, safety, nutrient management, etc. The achievements of individuals and organizations are recognized by way of various awards. Two new awards were instituted in 2016-17 by IFFCO, namely, 'U.S. Awasthi- IFFCO awards' for life time contribution in the fields of agriculture and fertilizer industry. These awards were given to two eminent personalities. Dr. Amitava H. Roy, Former President and CEO, International Fertilizer Development Centre, USA received the prestigious U.S. Awasthi IFFCO Award for life time contribution to the growth and development of fertilizer industry. Dr. K.L. Chadha, Former Horticulture Commissioner & Deputy Director General (Horticulture), ICAR, New Delhi received the U.S. Awasthi IFFCO Award for his life time contribution in the field of agriculture research and development.

22.0 FAI PUBLICATIONS

22.1 Annual Review of Fertiliser Production and Consumption 2020-21

22.1.1 *Annual Review of Fertiliser Production and Consumption 2020-21* was published in September 2021. It provided a detailed review of fertilizer policies, production performance, state-wise analysis of fertilizer consumption and agricultural development programmes undertaken by central government, state governments and fertilizer industry in 2020-21 and also presented outlook of fertilizer availability and expected consumption for 2021-22.

22.2 Fertiliser Statistics – 2020-21

22.2.1 *Fertiliser Statistics* is a valuable repository of fertilizer, agriculture and allied statistics. The 66th Edition of *Fertiliser Statistics 2020-21* published in

November 2021 was divided into 3 parts. First part covered Indian fertilizer statistics on capacity, production, import, despatch/sale, consumption, prices, taxes for fertilizers & raw materials, etc. Second part deals with Indian agricultural and allied statistics. Third part gives world fertilizer and agricultural statistics. The publication also gives in a nutshell the developments in fertilizer related policies in India.

22.3 Specialty Fertiliser and Micronutrient Statistics – 2020-21

22.3.1 The deficiencies of primary, secondary and micronutrients in soil are on increase posing threat to sustainable agriculture. Balanced use of fertilizer is needed to supplement the deficiencies of nutrients in the soil. To ensure balanced fertilization, besides existing fertilizer products, a number of new efficient fertilizer products have emerged in the market in recent years. These include *neem* coated urea, water soluble fertilizers, customized fertilizers, fortified fertilizers, bentonite sulphur, micronutrients, etc. *Specialty Fertiliser and Micronutrient Statistics – 2020-21*, the 10th Edition published in November 2021 covered the details of capacity, production, import, sale, and other related information about these products.

22.4 Biofertiliser Statistics – 2020-21

22.4.1 Biofertilisers are important supplement to chemical fertilizers which help in augmenting crop production by enriching the soil fertility, soil enzymes and soil microbial population. *Biofertiliser Statistics – 2020-21*, the 13th Edition published in November 2021 covered comprehensive data on capacity, production, dispatches, specifications of biofertilisers and other related information.

22.5 Revised Edition of FCO

22.5.1 FCO 1985 is a dynamic Order and updated Editions of this document have been issued by FAI from time to time incorporating various amendments made by the Government. Eighteenth Edition of FCO 1985 was brought out in February, 2019. Nineteenth Edition, brought out in July, 2021, includes new schedules on Biostimulants and Nano fertilizers besides other amendments issued upto July, 2021.

23.0 MEMBERS

23.1 The position of members as at the end of the year compared to the previous year stands as under:

Member	2022	2021
Active	40	40
Associate	171	191
Overseas Associate	22	23
Technical & Professional Associate	378	399
Total	611	653

The particulars of Active, Associate & Overseas Associate Members are given in Appendix IX.

23.2 Membership Subscription

23.2.1 In the 400th meeting held on 24th August, 2021, the Board of Directors approved the rates of subscription for Active Members for the year 2021-22 which are the same rates applicable since 2013-14. The rates are as under:

Ceiling – Based on the Nutrient Sold	
Category*	Rupees in Lakh
Sales up to 25000 te	0.63
Sales > 25,000 te but < 50,000 te	1.25
Sales > 50,000 te but < 1,50,000 te	2.50
Sales > 1,50,000 te but < 3,00,000 te	4.37
Sales > 3,00,000 te but < 5,00,000 te	6.25
Sales > 5,00,000 te but < 10,00,000 te	8.75
Sales > 10,00,000 te but < 15,00,000 te	11.25
Sales > 15,00,000 te but < 20,00,000 te	13.75
Sales > 20,00,000 te but < 25,00,000 te	17.50
Sales > 25,00,000 te	25.00

*Category is determined based on domestic production plus imports of nutrients sold except imported urea.

23.2.2 The members approved the rates of annual subscription as given under for the following categories of Associate Members for the year 2021-22 in the 65th Annual General Meeting held on the 28th September, 2020:

S.No.	Category	Amount
(i)	Associate Members	Rs.20,000* (Same rates as applicable from 2009-10)
(ii)	Overseas Associate Members	US \$ 2000* (Same rates as applicable from 2011-12)
(iii)	Technical & Professional Associate Members	Rs. 500* (Same rates as applicable from 2009-10)

* plus GST

24.0 BOARD OF DIRECTORS

24.1 The appointments of the following Directors who were appointed in the Casual Vacancy during the year were ratified and also regularised as Rotational Directors in Extraordinary General Meeting held on 28th June, 2021.

Mr. S.P. Yadav, (DIN: 06900056), representing M/s Gujarat State Fertilizers and Chemicals Limited (GSFC), appointed as a Director of the company to represent the interests of nitrogenous and complex fertilizer manufacturers.

- i) Mr. Gaurav Mathur, (DIN: 07610237), representing M/s Chambal Fertilisers and Chemicals Limited (CFCL), appointed as a Director of the company to represent the interests of nitrogenous and complex fertilizer manufacturers.
- iii) Mr. Rohit Pathak, (DIN 0008539796), representing M/s Hindalco Industries Limited, appointed as a Director of the company to represent the interests of nitrogenous and complex fertilizer manufacturers.

24.2 The following Ten Directors, who retired by rotation under clause 83 of the Articles of Association on the date of the last Annual General Meeting held on the 20th September, 2021, were re-appointed as Directors:

- \i) Mr. P.S. Gahlaut, (DIN 00049401), representative of M/s Indian Potash Limited (IPL), was appointed to represent the interests of potassic fertilizers.
- ii) Mr. K.K.Kaul, (DIN 00980318), representative of M/s DCM Shriram Fertilizers Limited, was appointed to represent the interests of nitrogenous and complex fertiliser manufacturers.
- iii) Mr. Akshay Poddar, (DIN: 00008686), representative of M/s Zuari Agro Chemicals Limited (ZACL), was appointed to represent the interests of nitrogenous and complex fertiliser manufacturers.
- iv) Mr. Ashvini Hiran, (DIN:07484872), representative of M/s Indorama India Private Limited, was appointed to represent the interests of nitrogenous and complex fertilizer manufacturers.
- v) Mr. Manish Nagpal, (DIN 03169160), representative of M/s Greenstar Fertilizers Limited, was appointed to represent the interests of nitrogenous and complex fertilizer manufacturers.

- vi) Mr. U. Saravanan, (DIN: 07274628), representative of M/s Madras Fertilizers Limited (MFL), was appointed to represent the interests of nitrogenous and complex fertilizer manufacturers.
- vii) Mr. Shailesh Khaitan, (DIN 00041247), representative of M/s *Khaitan Chemicals & Fertilizers Limited* (KCFL), was appointed to represent the interests of Super Phosphate manufacturers.
- viii) Mr. Challa Narasimha Reddy, (DIN: 02466228), representative of M/s Jubilant Agri and Consumer Products Limited (JACPL), was appointed to represent the interests of Super Phosphate manufacturers.
- ix) Mr. Sundeep Kumar Nayak, (DIN: 02140600), representative of M/s National Cooperative Development Corporation (NCDC), was appointed to represent the interests of Associate Members.
- x) Mr. D.S. Sudhakar Ramaiah, (DIN: 07636872), representative of M/s Project and Development India Limited (PDIL) was appointed to represent the interests of Associate Members.

24.3 The following Directors resigned/vacated from the Board of Directors of FAI during the year:

1. Mr. Arvind Agarwal w.e.f. 6th December, 2020
2. Mr. Anil Kapoor w.e.f. 29th May, 2021
3. Mr. Praveen Kumar Maheshwari w.e.f. 29th May, 2021
4. Mr. K. Prabhakar Rao w.e.f. 25th November, 2021
5. Mr. Virendra Nath Datt w.e.f. 25th November, 2021
6. Mr. A.K. Ghosh w.e.f. 25th November, 2021
7. Mr. D.S. Sudhakar Ramaiah w.e.f. 22nd December, 2021

24.4 To fill up the vacancies the following were appointed.

1. Mr. S.P.Yadav, w.e.f. 29th May, 2021
2. Mr. Gaurav Mathur, w.e.f. 29th May, 2021
3. Mr. Rohit Pathak w.e.f. 29th May, 2021
4. Mr. Shubhabrata Saha w.e.f. 25th November, 2021(In Casual Vacancy)
5. Mr. Nirlep Singh Rai w.e.f. 25th November, 2021 (In Casual Vacancy)
6. Mr. Siba Prasad Mohanty w.e.f. 25th November, 2021 (In Casual Vacancy)

24.5 Additional Director

Mr. Manoj Mishra, was appointed as an Additional Director on the board of FAI w.e.f. 25th November, 2021.

24.6 Extension of Tenure of Emeritus Director

The tenure of Mr. A Vellayan, as an Emeritus Director was extended for a further period of 3 years w.e.f. 29th May, 2021.

24.7 Resignation of Director General

Mr. Satish Chander, DG, FAI, resigned from the services of FAI w.e.f. 7th January, 2022.

24.8 In terms of 92(3) of the Companies Act 2013, extract of annual return is given in Form No. MGT-9 in Appendix-X.

25.0 FINANCE

25.1 The excess of income over expenditure is *Rs. 16,54,173 /- for the year ended the 31st March, 2022.

26.0 STAFF

26.1 FAI has been striving to keep the manpower requirement at an optimum level which enables effective and efficient service to the members. In this

process, conscious efforts have been made to rationalize the staff strength of FAI through retirements and reallocations of work without compromising the delivery and quality of services provided to member companies. Total staff strength has come down from 68 at the end of the financial year 2006-07 to 44 at the end of the financial year 2021-2022.

26.2 The Board has great pleasure in acknowledging the unstinted cooperation extended and the hard work put in by the Officers and staff of the Association in successfully carrying out various programmes during the year. In particular the Board would like to congratulate Mr. D. Ramakrishnan, for completing 35 years and Dr. Kabita Debnath Das for completing 25 years of dedicated service in FAI during the year.

27.0 PREVENTION OF SEXUAL HARASSMENT OF WOMEN AT WORKPLACE

27.1 The Association has complied with the provisions relating to the constitution of Internal Complaints Committee under the Sexual Harassment of Women at Workplace (Prevention, Prohibition and Redressal) Act 2013 [14 of 2013]. ■

APPENDIX I

MEMORANDA/REPRESENTATIONS SUBMITTED TO GOVERNMENT

1.0 FERTILIZER PRICING AND SUBSIDY POLICY, PAYMENT AND GOVERNANCE ISSUES

1.1 Issues of Urea Industry

- 1.1.1 FAI wrote a letter dated 18th May, 2021 to Secretary (Fertilizers) requesting for expediting the payments of increased fixed cost for production above Reassessed Capacity (RAC) as per Modified NPS-III policy approved on 30th March 2020, processing, notification and payment of Annual escalation claims for 2019-20, quarterly escalation claims for 2nd and 3rd quarter of 2020-21 and annual escalation claims for 2020-21 in view of sharp increase in gas prices. It also requested for payment of subsidy bills for the month of April 2021 which remained pending despite funds being available.
- 1.1.2 On 13th July, 2021, FAI again requested the Secretary (Fertilizers) for expediting the payment of increased fixed cost as per MNPS-III policy to urea units for urea production beyond RAC, as amended on 30th March 2020, which had been pending since 2014-15 onwards.
- 1.1.3 FAI vide letter dated 15th July, 2021 represented to the Secretary (Fertilizers) for approval of policy for revision of minimum fixed cost which was left out while approving the policy for Modified NPS-III. It was highlighted that delay in approving this policy not only impacts the viability of three low cost units but it also impacts viability of production beyond RAC by all urea units.
- 1.1.4 On 6th August, 2021, FAI again wrote a letter to the Secretary (Fertilizers) requesting to allow urea units to raise bills of pending subsidy payments on account of increased fixed cost for urea production beyond RAC as per MNPS-III policy, which are due since 2014-15.
- 1.1.5 FAI vide letter dated 19th January, 2022 requested the Secretary (Fertilizers) to allow escalation claims for third quarter and from January 2022 onwards on proportionate ad-hoc basis to ease the problem of working capital requirement of urea units in view of sharp rise in pool price of gas.
- 1.1.6 In response to DOF letter dated 18th January, 2022 to domestic gas based urea units not to plan shut-down during the year and maximize urea

production in view of high international prices of urea, FAI in its letter dated 31st January, 2022 assured of maximum possible production of urea. It further requested DOF to revise the minimum fixed cost as per the provisions of MNPS-III policy dated 2nd April, 2014, as additional production beyond RAC is also linked to minimum fixed cost.

1.2 Issues of P&K Fertilizers Industry

- 1.2.1 In view of continuing upsurge in international prices of fertilizer raw materials and finished fertilizers, FAI vide letter dated 27th August, 2021 addressed to Secretary (Fertilizers) highlighted the need for suitable adjustment in MRP by companies and requested for extending the increased rate of subsidy (allowed for Kharif 2021) for Rabi 2021-22. It was further requested to revisit the NBS rates to reflect further increases in raw material costs of all the nutrients enabling the industry to ensure supplies in cost effective manner.
- 1.2.2 FAI vide its letter dated 28th December, 2021 addressed to Secretary (Fertilizers) emphasized the need for setting right the imbalance in per unit subsidy on nutrients NPK under the NBS scheme and its early announcement for timely contracting of the raw materials. Besides, FAI also stressed upon the importance of rationalization of basic custom duty on raw materials and allowing pricing across grades within the framework of reasonableness for a reasonable return to suppliers of P & K fertilizers.
- 1.2.3 In response to DOF letter dated 25th January, 2022 to manufacturers/importers of DAP and NPK regarding providing relief on losses incurred in producing and importing additional DAP/NPK due to increased cost, FAI vide letter dated 31st January, 2022 clarified that the domestic manufacturers are incurring loss of Rs. 18000-20000 per tonne on DAP even after factoring in the increased subsidy due to steep increase in the price of raw materials. FAI requested the Secretary (Fertilizers) to compensate the manufacturers for entire quantities of DAP/NPKs produced in Q4, not only on additional quantities produced up to March 2022.
- 1.2.4 In a letter dated 24th February, 2022, FAI requested Secretary (Fertilizers) to expedite the decision on

the issue relating to exclusion of indirect taxes while computing 12% return on P&K fertilizers for reasonableness of MRP.

- 1.2.5 FAI vide letter dated 30th April, 2021 addressed to Director, DOF requested that in view of pandemic situation, the present arrangements of testing of Egyptian Rock Phosphate and technical audit inspection of SSP units may be continued.

1.3 Other Issues

- 1.3.1 FAI wrote a letter to Secretary (Fertilizers) on 7th December, 2021 and requested that the Department may pursue with the state governments for timely uploading B₁ and B₂ proforma and provision of the policy be applied if these are not uploaded in the stipulated time by the state governments. Further, the fertilizer companies are in no way responsible for uploading of B₁ and B₂ proforma in the system and payment of subsidy bills may continue to be made as per the policy.

- 1.3.2 FAI vide letter dated 5th May, 2021 requested the Secretary (Fertilizers) for his intervention to take up the matter with the Ministry of Railways to waive the charges of demurrage, wharfage, etc., at the rake points as was done in 1st wave of 2020 till the situation normalizes.

- 1.3.3 ADG, FAI vide letter dated 10th March, 2022 requested the Additional Member-Traffic, Railway Board for her intervention in the matter to ensure availability of sufficient Jumbo rakes at the ports and fertilizer plant located in Gujarat.

- 1.3.4 FAI vide letter dated 6th August, 2021 requested the Secretary (Fertilizers) to facilitate the payment of balance MDA claims for sale of city compost for the period 2016-17 and 2017-18.

1.4 Budget and Payment Related Issues

- 1.4.1 FAI vide letter dated 6th August, 2021 addressed to Secretary (Fertilizers) requested for expeditious processing and settlement of freight bills on both domestic and imported P&K fertilizers, which had been pending since 2020. It was highlighted that delay in payments increases the financial difficulty of P&K fertilizer industry, which was already suffering because of sharp rise in international prices of fertilizers and raw materials.

- 1.4.2 FAI vide letter dated 24th February, 2022 requested the Secretary (Fertilizers) that freight related issues may kindly be resolved expeditiously for smooth movement of fertilizers to every nook and corner of the country.

- 1.4.3 FAI vide letter dated 24th November, 2021 addressed to the Secretary, DOF requesting for allocating additional funds of at least Rs. 30,000 crore for paying subsidy in the year 2021-22. This was to ensure uninterrupted payment to fertilizer companies to enable them tie up procurement of raw materials. This is to maintain domestic production of fertilizers for *Kharif* 2022 in view of unprecedented rise in international prices of fertilizers and raw materials.

- 1.4.4 FAI vide letter dated 21st December, 2021 addressed to Secretary (Fertilizers) urged for additional allocation of at least Rs.15000 crore for domestic urea in the 3rd Supplementary Grants to help clear the subsidy bills up to February 2022. It was requested to take up the matter with the Finance Ministry.

- 1.4.5 FAI wrote a letter to Secretary (Fertilizers) dated 22nd February, 2022 requesting for facilitating raising of bills by P&K fertilizer industry for payment of revised rates of subsidy under NBS policy arising due to revision in rates of subsidy on 20th May and 13th October, 2021.

1.5 Pre-Budget Memorandum

- 1.5.1 FAI sent a representation to Hon'ble Finance Minister on 21st October, 2021 regarding various issues faced by the fertilizer sector under the GST law for her consideration in GST Council, as GST is not a part of Union budget exercise. It was requested to allow refund of unutilized ITC in respect of both inputs and input services, reduce GST rate on micro-nutrients from 12% to 5%, exempting importers from payment of IGST under reverse charge basis on ocean freight service for CIF contracts and exempting transportation service of fertilizers by road and rail from GST. Similar letter was sent to the Joint Secretary, DOF requesting her to take up the matter with the Finance Ministry.

- 1.5.2 FAI sent industry's suggestions for Union Budget 2022-23 pertaining to Direct Taxes to the Joint Secretary (TPL-I), CBDT, Ministry of Finance vide letter dated 19th November, 2021. Similar letter dated 23rd November, 2021 was sent to the Joint Secretary, DOF requesting for taking up the issues related to direct taxes of fertilizer industry with the Finance Ministry.

- 1.5.3 FAI's suggestions on customs duty for Union Budget 2022-23 were submitted to the Joint Secretary (TRU-I), CBIC, Department of Revenue vide letter dated 23rd November, 2021. The representation *inter-alia* sought exemption from

customs duty on fertilizer raw materials/ intermediates. Similar letter dated 22nd November, 2021 was sent to the Joint Secretary, DOF requesting for taking up these issues with the Finance Ministry.

1.6 Taxes & Duties

1.6.1 FAI vide letter dated 26th July, 2021 requested the Secretary (Fertilizers) for continuation of customs duty exemption/concession on goods imported for fertilizer projects under renovation/modernization scheme and spare parts for maintenance of the same. The letter was supported by enclosed note on the subject justifying the need for continuation of these duty concessions.

2.0 ISSUES RELATED TO ENERGY CONSERVATION

2.1 The Ministry of Power issued a Draft Electricity (Promoting Renewable Energy through Green Energy Open Access) Rules, 2021 dated 16th August 2021 for comments. FAI sent consolidated comments to the Ministry of Power for consideration on 15th September 2021. It was requested to consider waste heat generation from process as green energy and terms and conditions for discom/distribution licensee to be on equitable basis.

2.2 BEE had requested the DOF to provide their comments on the recommendations of the Sectoral Expert Committee of BEE. The DOF forwarded the same to FAI and advised to send its comments directly to BEE with a copy to DOF. Accordingly, FAI sent a letter to Director, BEE on 17th March, 2022 concurring with the view of the Sectoral Expert Committee.

3.0 ISSUES RELATED TO ENVIRONMENT

3.1 A representation was sent to the Chairman, CPCB on 18th June, 2021 highlighting the issues and problems due to implantation of Standard Operating Procedure (SOP) on Extended Producer Responsibility under Plastic Waste Management Rules as some of the provisions were not practicable.

3.2 A letter was also sent to the Secretary (Fertilizers) 18th June, 2021 apprising of the issues due to implementation of the SOP on Extended Producer Responsibility under PWM Rules to take up the matter with the CPCB. It was also highlighted that fertilizer companies would have to incur additional expenditure to comply with the PWM Rules and requested that it should be recognized as a cost in the urea subsidy policy.

3.3 FAI sent a letter to Chairman, CPCB on 14th October, 2021 requesting CPCB to allow fertilizer industries to follow the provisions of Draft EPR notification of MOEFCC dated 6th October, 2021. It was also requested to take a lenient view till the Draft EPR is finalized.

3.4 In response to the letter dated 30th June 2021 received from the DOF, FAI sent a note dated 12th July 2021 on NACAG initiative for nitrous oxide (N₂O) abatement mentioning that only four fertilizer plants are producing nitric acid and any decision should be taken after consulting all of them. DOF again sought the comments of FAI vide letter dated 20th October 2021. FAI forwarded the comments received from two member companies to DOF on 16th November 2021. One of the companies provided comments directly to the DOF.

3.5 FAI vide email dated 3rd December 2021 sent its comments on the Draft Extended Producer Responsibility for Plastic Packaging under Plastic Waste Management Rules, 2016. Additional comments were sent on 8th December 2021.

3.6 FAI received a mail from Director, Department of Commerce, Ministry of Commerce & Industry seeking comments on impact of European Union (EU) Carbon Boarder Adjustment Mechanism on fertilizer sector. FAI sent its comments on 14th March 2022 stating that there is no export of fertilizer from India to EU and any calculation of carbon dioxide emission should exclude CO₂ used for urea production.

3.7 In its representation dated 30th March 2022 to the Member Secretary, CPCB, FAI highlighted the issues arising due to implementation of SOP for utilization of sludge generated from effluent treatment plant in DAP/NPK fertilizer plants and requested to review the SOP.

4.0 ISSUE RELATED TO FUEL SUPPLY

4.1 FAI in its letter to the Secretary (Fertilizers) on 4th October, 2021 requested to take up the matter suitably with the Ministry of Coal, the Ministry of Railways and Railway Board to give priority to fertilizer sector equivalent to power sector in loading and movement of coal to fertilizer plants.

4.2 FAI sent a representation to Secretary (Fertilizers) on 7th February, 2022 requesting intervention of DoF with the Coal India Limited and the Ministry of Railways to ensure loading and movement of coal, respectively to help in maximizing urea production in difficult times.

5.0 OTHER ISSUES

- 5.1 FAI sent a representation to the DOF on 22nd December, 2021 along with a note on promoting utilization of phosphogypsum as per the recommendations of Working Group on Circular Economy in Phosphogypsum constituted by the Department for Promotion of Industry and Internal Trade, Ministry of Commerce and Industry. It was requested to take up the matter appropriately with the Ministry of Railways and the Ministry of Port, Shipping and Waterways to resolve the logistic issues.
- 5.2 As a follow-up of the Think Tank meeting of the DOF held on 30th March, 2022, FAI sent two separate notes to the DOF on 31st March, 2022 on utilization of phosphogypsum and recovery of potash from sea bittern.
- 5.3 FAI wrote a letter to the Secretary (Fertilizers) on 10th November, 2021 regarding amendment of the MCR, 2016 for specifying formula for calculating ASP of glauconite and potash for calculating value of estimated resources for auction of Blocks of miners.
- 5.4 ADG, FAI vide letter date 17th March, 2022, to Joint Secretary (Petrochemicals) submitted the feedback of the industry on the latest BIS standards for HDPE/PP fertilizer bags. It was

requested to look into the feedback before issuing the 'Quality Control Orders' for making BIS standard mandatory for the fertilizer industry.

6.0 REGIONAL ISSUES

- 6.1 FAI-WR submitted representations to the Director of Agriculture, Government of Maharashtra, Pune on 9th October 2021, 7th January 2022 and 12th March 2022 on various issues related to non-usage of point of sale (POS) machines by some retail dealers, legal issues arising out of physical stock held by the dealers who expired in the course of business, stocks held by state institutional agencies like Cooperative Marketing Federations, appearance of more stocks in the POS machines than the physical stock available, delay in certification of B₁ and B₂ proforma, problems at railway goods shed created by labour and truck associations, etc.
- 6.2 FAI-SR submitted representation to the Director of Agriculture, Government of Tamil Nadu, Chennai on 16th April 2021 and 13th August 2021 regarding issues arising out of non-usage of POS machines by some retailers resulting in showing more stock in POS machines compared to actual physical stock, delay in certification of B₁ and B₂ proforma, issues related to organic fertilizers quality certification and locked entries for various reasons.



SEMINAR HIGHLIGHTS



SEMINAR HIGHLIGHTS



SEMINAR HIGHLIGHTS



A GLIMPSE OF EXHIBITION STALLS



APPENDIX II

FAI REPRESENTATION ON NATIONAL AND INTERNATIONAL BODIES

1. International Fertilizer Association (IFA), Paris
 - a) IFA Sustainability Committee
 - Strategic Advisory Group
 - Sustainable Fertilizer Production Working Group
 - Sustainable Fertilizer Academy Working Group
 - Norm in Phosphogypsum Working Group
 - Method Harmonization Working Group
 - Sustainable Fertilizer use Steering Group
 - b) Market Intelligence Committee
 - Fertilizer Demand Working Group
 - NPK Compounds Task Force
 - c) Public Affairs Committee
 - d) Working Group on Special Products
2. Bureau of Indian Standards, GOI New Delhi
 - a) Standardization Cell
 - b) Environment Protection and Waste Management Sectional Committee (CHD 32)
 - c) Solid Waste Management Sectional Committee (CHD 33)
 - d) Environment Management Sectional Committee (CHD 34)
 - e) Occupational Health and Safety Sectional Committee (CHD 08)
 - f) Water Quality for Industrial Purposes Sectional Committee (CHD 13)
 - g) Energy Management Sectional Committee (MED 39)
 - h) Air Quality Sectional Committee (CHD 35)
 - i) Environmental Services Sectional Committee (SSD 07)
 - j) Soil Quality and Fertilizers Sectional Committee, FAD 7
 - k) Biotechnology for Food and Agriculture Sectional Committee, FAD 23
 - l) Textile Materials Made from Polyolefins (Excluding Cordage) Sectional Committee TX 23.
3. Sectoral Committee & Sub-Committee on Fertilizer for Implementation of PAT in Fertilizer Sector of Bureau of Energy Efficiency, Ministry of Power, GOI, New Delhi
4. Project Screening /Evaluation/Monitoring Committee of Technology Development Board, GOI, New Delhi
5. Multi-Disciplinary Committee on BRP, Department of Fertilizers, GOI, New Delhi
6. Working Group to look into various aspects of Green Ammonia production and utilization, Ministry of New and Renewable Energy, GOI, New Delhi
7. Working Group on Circular Economy in Phosphogypsum, Department for Promotion of Industry and Internal Trade, Ministry of Commerce and Industry, GOI, New Delhi
8. Think Tank for Innovation in the Fertilizer Sector, Department of Fertilizers, GOI, New Delhi
9. Various Expert Groups and Committees of Ministry of Chemicals and Fertilizers, GOI, New Delhi
10. Central Fertilizer Committee, Ministry of Agriculture and Farmers Welfare, GOI, New Delhi
11. Society for Promotion of Wasteland Development, New Delhi
12. Steering Committee of Indo-Canadian Potash Promotion Project, New Delhi
13. Scientific Advisory Committee – TERI Deakin Nano Biotechnology Centre, Gurugram, Haryana
14. Railway Users' Consultative Committee of Eastern, Northern, Western and Southern Railways
15. Fertilizer Advisory Committee and State Coordination Committee of Various States

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APPENDIX III

FAI PARTICIPATIONS IN CONFERENCES, SEMINARS, WORKSHOPS AND MEETINGS

Participations

1. DG made a presentation on the Proposed Plant Nutrition Act 2021 in second meeting of the Committee constituted for the formulation of concept note for the Plant Nutrition Act under the Joint Chairmanship of Secretary (Fertilizers) and Secretary (DOA&FW) at Krishi Bhawan, New Delhi on 7th September, 2021 Director (Agricultural Sciences) also attended the meeting.
2. DG and Chief Economist participated in IHS Markit (Fertecon)-FAI virtual Workshop on Short-term International Forecasting of Fertilizers & Raw Materials on 6th April, 2021.
3. DG participated virtually in the meeting of Market Intelligence Committee's Strategic Advisory Team of IFA on 7th April, 2021.
4. DDG participated as panellist for TERI's South Asia New Energy Series Session on H₂ Strategies & Use-Cases for India on 1st July, 2021.
5. DDG attended online Release of Energy Saving Certificates (ESCerts) to Designated Consumers (DCs) under PAT Cycle-II and a Booklet on ESCerts Trading Experience in PAT Cycle-I organized by BEE on 18th August, 2021.
6. DDG presented a paper on Challenges in Fertilizer Sector in IFFCO Leadership Bootcamp Programme on 28th September 2021.
7. DDG virtually attended the IFA's invitation to Launch of IEA Ammonia Technology Roadmap on 11th October, 2021.
8. DDG and Chief (Technical) attended virtual panel discussion on Abatement of N₂O Emissions from Nitric Acid Production organized with support from Nitric Acid Climate Action Group on 16th December, 2021.
9. Acting DG participated as panellist for TERI's World Sustainable Development Summit 2022 session on Research and Innovation Outlook for Industry Decarbonization in India on 16th February, 2022.
10. Director (Agricultural Sciences) attended the First FAO-IFA Webinar of the Sustainable Plant Nutrition Series on Microbial – A New Tool for Sustainable Agriculture on 26th May, 2021.
11. Director (Agricultural Sciences) made a virtual presentation on Specialty Fertilizer Market in India on 8th June, 2021 in Market Session of the IFA Smart & Green Conference held during 8-10 June, 2021.
12. Director (Agricultural Sciences) attended the FAO-IFA virtual event on A New Paradigm for Plant Nutrition on 7th July, 2021.
13. Director (Agricultural Sciences) attended the virtual event for UN Food Systems Pre-Summit on Adopting a New View of Soil Health for Human Health on 27th July, 2021 organized by IFA during 26-28 July, 2021.
14. Director (Agricultural Sciences) attended the webinar organized by Bureau of Indian Standards (BIS) on Building Nation through Standards for celebrating 75 years of Independence under Azadi Ka Amrut Mahotsav on 16th August, 2021.
15. Director (Agricultural Sciences) attended Virtual IFA Global Sustainability Conference 2022 organized during 28-31 March, 2022.
16. Director (Agricultural Sciences) delivered lectures on Fertilizer Marketing and Distribution System in India on 24th November, 2021 and 23rd February, 2022 in the Refresher Training Course on Fertilizer Quality Control for Notified Fertilizer Inspectors organized by Central Fertilizer Quality Control & Training Institute, Faridabad, through webinar
17. Director (Agricultural Sciences) and Chief (Technical) attended the virtual IFA Global Sustainability Conference 2022 held during 28-31 March 2022.
18. Chief (Technical) attended the webinar on Standards on Drinking Water organized by BIS in association with National Water Mission, Ministry of Jal Shakti, Department of Water Resources on 31st August 2021.
19. Regional Head, ER chaired the session of a national webinar on Managing Agro Chemicals for Crops and Environmental Health organized by Society for Fertilizers and Environment on 26th February, 2022.
20. Regional Head, SR made presentations on Fertilizer Policy, Distribution and Marketing of Fertilizers on 5th October 2021 and 14th December 2021 in the Refresher Training Course for Fertilizer Inspectors

of State Department of Agriculture organized by Regional Fertilizer Control Laboratory, Chennai.

21. Regional Head, WR made presentation on Fertilizer Policy, Distribution and Marketing of Fertilizers on 12th August, 2021 in the Refresher Training Course for Fertilizer Inspectors of State Department of Agriculture organized by Regional Fertilizer Control Laboratory, Mumbai.

Meetings

1. DG had meetings with the Hon'ble Minister of Chemicals and Fertilizers and Hon'ble Minister of State of Fertilizers and Chemicals to apprise them about the fertilizer sector and market situation of fertilizers from time to time.
2. DG participated in the meetings Chaired by Secretary (Fertilizers) to review situation of fertilizer availability in *kharif* 2021 on 1st April and 9th April, 2021.
3. DG participated in the meeting with the MD/CMDs of IFFCO, IPL, RCF, NFL, CFCL, Coromandel International Limited and KRIBHCO Chaired by Hon'ble Minister of State of Fertilizers and Chemicals on 12th April, 2021 to review the availability of fertilizers.
4. DG participated in virtual meeting held under the Chairmanship of Secretary (Fertilizers) on 19th April, 2021 to explore possibilities of installing oxygen plants by fertilizer companies in their campus and start producing medical grade oxygen.
5. DG participated virtually in the meeting of the SSP Committee of DOF on 16th June, 2021 held under the Chairmanship of Joint Secretary, DOF.
6. DG and Director (Agricultural Sciences) attended the meeting of Central Fertilizer Committee on 22nd June, 2021 through video-conferencing and provided valuable inputs.
7. DG virtually attended the meeting held under the Chairmanship of Hon'ble Minister of Chemicals and Fertilizers with the representatives of single super phosphate manufacturers on 27th July, 2021 to discuss the issues related to SSP industry.
8. DG and Chief Economist virtually attended the meeting with the Secretary (Fertilizers) on the issues of urea sector held on 13th September, 2021.
9. DG and DDG participated in the first meeting of the Committee constituted to review urea policies held under the Chairmanship of Joint Secretary (Fertilizers) on 7th October, 2021.
10. DG attended meeting on optimizing indigenous urea production on 29th October, 2021 in the Chamber of Joint Secretary (DOF).
11. DG participated in virtual meeting to discuss potash derived from molasses (PDM) and CCEA note of the Ministry of Mines held under the Chairmanship of Joint Secretary (DOF) on 12th November, 2021.
12. DG virtually attended meeting with the Secretary (Fertilizers) to review the fertilizer availability position and strategy for *kharif* 2022 with specific reference to DAP and NPK on 23rd December, 2021.
13. DDG attended virtual meeting of Strategic Advisory Team (SAT) of the IFA Sustainability Committee on 13th July, 2021.
14. DDG and Director (Agricultural Sciences) attended virtual meeting of Brain Storming Session on safe use of chemical fertilizers and other agro-chemicals organized by ICAR on 19th July, 2021.
15. DDG attended virtual meeting of Technology Development Board, Ministry of Science & Technology on the progress of the project of M/s. Biogen Fertilizers India Private Limited on 10th August, 2021.
16. DDG attended IFA Sustainability Committee: Hybrid SAT Meeting on 28th September, 2021.
17. DDG attended virtual meeting of IFA Sustainable Fertilizer Academy Working Group on 28th September, 2021.
18. DDG attended the meeting of multi-disciplinary committee for beneficiation plants of rock phosphate constituted by the DOF on 1st October, 2021.
19. DDG and Chief (Technical) attended 11th meeting of technical expert committee of fertilizer sector under PAT Scheme on 22nd October, 2021.
20. DDG and Chief Economist attended virtual meeting of the sub-committee constituted to review Urea Policies by the DOF on 3rd November, 2021.
21. DDG and Chief (Technical) virtually attended the IFA phosphogypsum working group meeting on 15th December, 2021.
22. Acting DG and Director (Agricultural Services) attended virtual meeting on Vision India@2047 for Fertilizer Sector Chaired by Joint Secretary (DOF) with the industry on 14th February, 2022.
23. Acting DG and Chief (Technical) attended virtual group meeting on the findings of project - Study to access the potential of switching over from fossil fuel based captive generation to grid based captive generation organized by CII on 15th February, 2022.

24. Acting DG attended the first meeting of Think Tank for innovation in the Fertilizer Sector at Shastri Bhawan on 30th March, 2022.
25. Director (Agricultural Sciences) and Chief (Statistics & IT) attended virtual meeting of Commission for Agricultural Costs and Prices (CACP), Ministry of Agriculture & Farmers Welfare, Government of India for formulating the price policy for *rabi* crops marketing season 2022-23 on 15th June, 2021 under the Chairmanship of Chairman, CACP. A brief note on the FAI inputs was also submitted.
26. Acting Director General and Director (Agricultural Sciences) attended the virtual meeting of the CACP for formulating the price policy for *kharif* crops on 2nd February, 2022. A brief note containing the FAI inputs was also submitted.
27. Director (Agricultural Sciences) attended 18th virtual meeting of Soil Quality and Fertilizers Sectional Committee, FAD 7 of BIS, New Delhi on 7th March, 2022.
28. Chief (Technical) attended meetings of Environment Protection and Waste Management Sectional Committee, CHD 32 of BIS on 2nd June, 2021 and 24th September 2022 through video conferencing.
29. Chief (Technical) attended meetings of Environmental Management Sectional Committee, CHD 34 of BIS on 4th June, 2021 and 29th March, 2022 virtually.
30. Chief (Technical) attended meetings of Air Quality Sectional Committee, CHD 35 of BIS on 31st August, 2021 and 29th March, 2022 virtually.
31. Chief (Technical) attended meetings on Energy Management and Energy Savings Sectional Committee, MED 39 of BIS on 22nd September, 2021 and 28th February, 2022 virtually.
32. Chief (Technical) attended meeting of Water Quality for Industrial Purposes Sectional Committee CHD 13 of BIS on 27th October, 2021 virtually.
33. Regional Heads regularly attended meetings such as review, pre-zonal conference, state advisory committee, etc., organized by the State Department of Agriculture of their respective regions.
34. RH-WR regularly participates in meetings of Railway Fertilizer Industry Coordination Committees of the Western Railways. Four meetings (three on virtual platform and one on physical form) were held during 2021-22. Various issues related to wagon availability, loading/unloading of rakes, etc. are deliberated at length by the industry representatives for amicable solution by the Western Railways.
35. Regional Head, ER attended meetings on virtual platform of the Board of Directors of Sikkim IFFCO Organics Limited on 7th June, 2021, 8th September, 2021, 29th September, 2021, 30th December, 2021 and 29th March, 2022.
36. Regional Head, ER attended meeting virtually on 22nd June, 2021 of the Board of Studies of School of Agriculture and Allied Sciences, The Neotia University, South 24-Parganas, West Bengal.
37. Regional Head, ER virtually attended meeting as a member of Project Monitoring Committee of Technology Development Board, Department of Science and Technology, GOI, on 7th October, 2021 for the project on Commercialization of cow dung compost as a means of strain delivery by applying electromagnetic radio nuclides C⁶⁰ alternative of synthetic NPK. The project is under implementation in Midnapore district of West Bengal.
38. Regional Head, ER participated in meeting convened by Mr. Pradip Mazumdar, Adviser (Agriculture) and Dr. Paritosh Bhattacharyay, Special Secretary (Agriculture), West Bengal on 18th November, 2021 for a discussion on availability of fertilizers in the state up to March 2022.



APPENDIX IV

TRAINING PROGRAMMES/ORIENTATION COURSES HELD DURING 2021-22

S. No.	Name of the programme	Period	Virtual or Name of the City	No. of Participants	Inaugurated by
CORPORATE OFFICE					
1.	Investment Opportunities in the Fertilizer Sector in South Africa	7 April 2021	Virtual	48	Mr. Sibusiso Ndebele High Commissioner, South African High Commission
2.	Recent Developments in Fertiliser (Control) Order	10 June 2021	Virtual	200	Dr. S.K. Malhotra, Agriculture Commissioner Ministry of Agriculture and Farmers Welfare, New Delhi
3.	Digitalization in Fertilizer Industry	6 July 2021	Virtual	64	Mr. S.R. Ramakrishnan Whole Time Director SPIC, Chennai
4.	Inspection and Maintenance of Compressors and Turbines in Fertilizer Plants	25 August 2021	Virtual	83	Mr. G.K. Gautam Director (Technical) IFFCO, New Delhi
5.	Key Areas of Fertilizer Sector	21 September 2021	Virtual	202	Mr. Satish Chander Director General FAI, New Delhi
6.	Manufacturing of Acids and Complex Fertilizers for Coromandel International Limited	7-8 October 2021	Virtual	30	Dr. S. Nand Deputy Director General FAI, New Delhi
7.	Fertilizer Industry Orientation Programme for HURL	9-11 November 2021	Noida	90	Dr. S. Nand Deputy Director General FAI, New Delhi
8.	Inspection and Maintenance of Critical Static Equipment in Ammonia and Urea Plants	16 February 2022	Virtual	54	Mr. Nirlep Singh Rai Chairman & Managing Director NFL, Noida
SOUTHRN REGION					
1.	Soil Health Governance through Integrated Nutrient Management	27 April 2021	SBVR Agricultural College, Badvel, Kadapa Andhra Pradesh	63	Dr. B. Padmodaya, Director, District Agricultural Advisory and Technology Transfer Centre, Utukuru, District : Kadapa
2.	Fertilizer Orientation Course	28 April 2021	SBVR Agricultural College, Badvel	55	Dr. Y. Narasimhudu Associate Dean, SBVR Agricultural College, Badvel
3.	Sustaining Soil Health through INM – Role of Fertilizer Policy	24 September 2021	Karaikal Puducherry	72	Mr. S. Narayanan Director (Marketing) SPIC and Greenstar Fertilizers Ltd., Chennai
4.	Innovations in Nutrient Management for Enhancing Fertilizer Use Efficiency	15 December 2021	Krishi Vigyan Kendra Perambalur, TamilNadu	72	Dr. V.E. Nethaji Mariappan Programme Coordinator KVK, Perambaluru
5.	Fertilizer Orientation Course	17 December 2021	Agricultural College, Madurai TamilNadu	40	Dr. V.K. Paulpandi Associate Dean of College

S. No.	Name of the programme	Period	Virtual or Name of the City	No. of Participants	Inaugurated by
6.	Fertilizer Orientation Course	24 February 2022	School of Agriculture, SR University Warangal Telangana	204	Prof. G.R.C. Reddy Vice Chancellor S.R. University, Warnagal
7.	Soil Health Management – Key to Sustainable Agriculture	25 February 2022	Regional Agricultural Research Station Warangal	114	Dr. R. Uma Reddy Associate Director of Research of the Station
8.	Fertilizer Orientation Course	25 March 2022	College of Horticulture, Rajendranagar Hyderabad	170	Dr. A. Girwani Associate Dean of College

SOUTHERN AND WESTERN REGIONS

1.	Need for Reforms in Fertilizer Sector	21 May 2021	Virtual	153	Mr. Satish Chander Director General FAI - New Delhi
2.	Emerging Trends in Plant Nutrition	15 July 2021	Virtual	144	Mr. Satish Chander Director General FAI - New Delhi
3.	Fertiliser (Control) Order - Provisions	23 August 2021	Virtual	130	Mr. Satish Chander Director General FAI - New Delhi

EASTERN REGION

1.	Fertiliser (Control) Order (1985) - Recent Amendments	10 August 2021	Virtual	95	Mr. Satish Chander Director General FAI, New Delhi
2.	Healthy Marketing of Agriculture Inputs	4 February 2022	Kolkata	25	Dr. Rajesh Yadav Regional Manager PPL, Kolkata
3.	Fertilizer Management Development Programme on Fertilizer and Agriculture : Challenges and Way Forward	12-14 February 2022	Virtual	63	Dr. S. Nand Acting Director General FAI, New Delhi
4.	Balanced Fertilization for Healthy Soil and Crop	4 March 2022	Memari, Burdwan, West Bengal	90	Mr. Madhusudan Bhattacharya MLA Memari, Burdwan
5.	Fertilizer Orientation Course	21 March 2022	The Neotia University Sarisha, South 24 Parganas West Bengal	133	Prof. Dr. Biswajit Ghosh Vice Chancellor The Neotia University

NORTHERN REGION

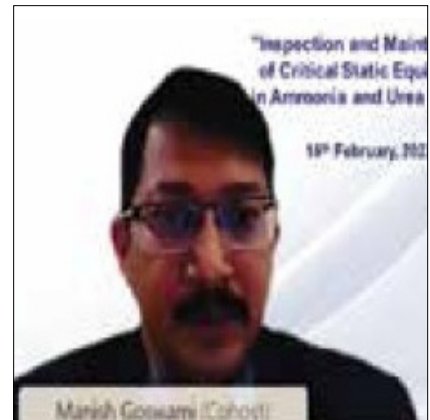
1.	Challenges and Strategies for Fertilizer Industry	6-9 September 2021	Kufri Shimla Himachal Pradesh	36	Dr. Raj Krishan Pruthi Director Agriculture Government of Himachal Pradesh, Shimla
2.	Challenges and Strategies for Fertilizer Industry	8-11 March 2022	Ranthambore Sawai Madhopur Rajasthan	71	Dr. S Nand Acting Director General FAI, New Delhi
3.	Fertilizer Orientation Course	28 March 2022	SGT University Gurugram Haryana	126	Prof. R.C. Kuhad Pro Chancellor SGT University

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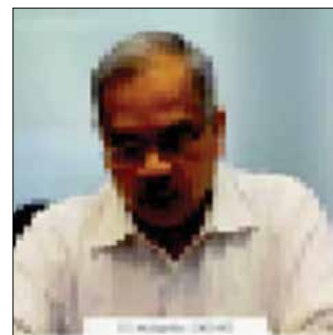
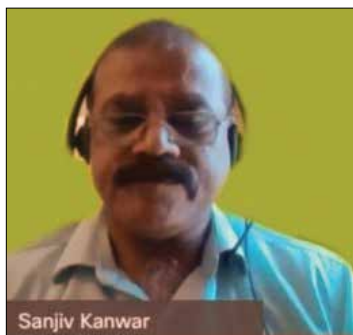
ACTIVITIES - CORPORATE OFFICE



ACTIVITIES - CORPORATE OFFICE



ACTIVITIES - REGIONAL OFFICE



ACTIVITIES - REGIONAL OFFICE



ACTIVITIES - INDUSTRY



આધાર કાર્ડ દ્વારા ખાતર ખરીદી કરવાથી થતા ફાયદા

આધાર કાર્ડ

આજણ સંકલ્પ કરીએ કે ખેડૂતોને સહાયક ખાતરોમાં આધારી સભ્યશ્રીઓ દુરુપયોગ રોકવા હવે આધારકાર્ડથી જ ખાતરોની ખરીદી કરીએ.

સમવસ્તર તથા સુલ્ભવર્ધિત ખાતરોના વિતરણમાં મદદરૂપ

સહાયક ખાતરોની સંભાળભરી, દુરુપયોગ અને કાચા ખાતરો પર અંકુશ

વિસ્તૃત પાણે ઉપલબ્ધ સ્ટોકની ખાતરી

ખેત ખરીદેલ સહાયક ખાતરોની વિગત ઠાકણ દ્વારા વાર્ષિક રુપય પર ખેડૂતોના ખાંચાઈલ પર

ઉત્પાદક થી સીધા જપરાશકર્તા સુધીની વાર્ષિક સમય પર ખાતરી

સહાયક ખાતરોની ગુણવત્તાની ખાતરી



APPENDIX V

FAI AWARDS FOR 2021

I. FAI GOLDEN JUBILEE AWARDS

1. BEST PRODUCTION PERFORMANCE AWARDS

A. Nitrogenous (Ammonia & Urea) Production Performance Fertilizer Plants

Joint Winners

Indian Farmers Fertiliser Cooperative Limited, Aonla-II and Chambal Fertilisers and Chemicals Limited, Gadepan-III

B. Phosphoric Acid Plants

Winner

Not Awarded

C. Complex (P₂O₅) Fertilizer Plants

Special Award

Rashtriya Chemicals & Fertilizers Limited, Trombay

Winner

Indorama India Private Limited, Haldia

D. Single Super Phosphate Plants

Winner

Rama Krishi Rasayan, Pune
(A Division of Rama Phosphates Ltd.)

E. Improvement in Overall Performance of a Company

Joint Winners

Indian Farmers Fertiliser Cooperative Limited, Kalol and Kribhco Fertilizers Limited, Shahjahanpur

2. BEST TECHNICAL INNOVATION

Winner

Chambal Fertilisers and Chemicals Limited, Gadepan for their innovation **Solving Long-standing Problem of Higher Pressure in Low Pressure Decomposition Section**

Runner-up

Southern Petrochemical Industries Corporation, Tuticorin for their innovation **Waste Heat Recovery through Hybrid VAM for Suction chilling of Syn Gas**

3. RESEARCH, DEVELOPMENT AND INNOVATION AWARD

Indian Farmers Fertiliser Cooperative Limited for their innovative work in Development of **NANO UREA (Liquid) Fertilizer**

II. AWARD FOR EXCELLENCE IN SAFETY

Special Award

Rashtriya Chemicals & Fertilizers Limited, Thal

Winner

Chambal Fertilisers and Chemicals Limited, Gadepan

Runner-Up

Yara Fertilisers India Private Limited, Babrala

III. ENVIRONMENT PROTECTION AWARDS

A. Nitrogenous Fertilizer Plants (including ammonia, urea and other straight nitrogenous fertilizer units)

Winner

Mangalore Chemicals & Fertilizers Limited, Mangaluru

Joint Runner-Up

Krishak Bharati Cooperative Limited, Surat and

Chambal Fertilisers and Chemicals Limited, Gadepan

B. NP/NPK Complex Fertilizer Plants with Captive Acids

Joint Special Award

Indian Farmers Fertiliser Cooperative Limited, Paradeep and Paradeep Phosphates Limited, Paradeep

C. NP/NPK Complex Fertilizer Plants without Captive Acids

Winner

Indian Farmers Fertiliser Cooperative Limited, Kandla

D. Single Super Phosphate Plants

Special Award

Indorama India Private Limited, Haldia

Winner

Khaitan Chemicals & Fertilizers Limited, Nimrani

IV. VIDEO FILM COMPETITION AWARDS

Winner

Chambal Fertilisers and Chemicals Limited, New Delhi for the film on स्वस्थ मृदा, स्वस्थ जीवन

Runner-Up

Krishak Bharati Cooperative Limited, Noida for the film on स्मार्ट खेती अपनाएं – खुशियां उपजाएं

V. AWARD ON PRODUCTION, PROMOTION AND MARKETING OF BIOFERTILIZERS/ORGANIC FERTILIZERS/CITY COMPOST

Winner

Rashtriya Chemicals & Fertilizers Limited, Mumbai

VI. FAI AWARD ON APPLICATION OF ICT/DIGITAL TRANSACTIONS IN AGRICULTURE

Not awarded

VII. FAI AWARD FOR INNOVATIVE WORK ON TRANSFER OF IMPROVED FARM TECHNOLOGIES

Special Award

Indian Farmers Fertiliser Cooperative Limited, New Delhi

Winner

Adventz Group (ZACL, MCFL, PPL), Bangalore

VIII. AWARD ON PROMOTION AND MARKETING OF MICRONUTRIENTS IN INDIA

Special Award

Indian Farmers Fertiliser Cooperative Limited, New Delhi

Winner

Rashtriya Chemicals and Fertilizers Limited, Mumbai

IX. FAI AWARD FOR EXCELLENCE FOR OUTSTANDING RESEARCH IN PLANT NUTRITION

Winner

Dr. N.B. Prakash, Professor, University of Agricultural Sciences, GKVK, Bangalore

X. FAI AWARD FOR OUTSTANDING DOCTORAL RESEARCH IN FERTILIZER USAGE

Winner - Dr. Abhijit Sarkar, Division of Soil Science and Agricultural Chemistry, ICAR-IARI, New Delhi

Dr. Abhijit Sarkar did his Ph.D. on “Synthesis and Evaluation of Controlled Release NP-Fertilizer Formulations on Enhancing Nutrient Use Efficiency in Wheat” from the ICAR-Indian Agricultural Research Institute, New Delhi. Dr. Sarkar synthesized the controlled release NP-fertilizer formulations (CRNPFs) using surface modification and polymer matrix loading techniques and evaluated the influence of CRNPFs on nitrogen (N) and phosphorus (P) use efficiencies in two texturally different soils belonging to the soil orders of Inceptisols and Vertisols. He observed that all the CRNPFs were significantly superior to uncoated diammonium phosphate in reducing the release, and increasing the efficiencies of N and P. The *Aspergillus awamori* and *Trichoderma viride* could be successfully used for decontamination of residual polymeric substances. Dr. Sarkar quantified the effects of CRNPFs on important soil properties and nutrient availabilities. Based on in-depth research, he found that whereas the fertilizer developed by using surface modification was a better option for use in agricultural crops; polymer matrix loading technique based fertilizers could be used in the moisture deficit regions for gardening purposes.

XI. IPI-FAI AWARD FOR PROMOTING BALANCED AND INTEGRATED FERTILIZER USE WITH EMPHASIS ON POTASSIUM

Winner - Dr. A.S. Panwar, Dr. N. Ravisankar, Dr. M. Shamim, Dr. Raghuvir Singh, Dr. A.K. Prusty and Dr. M.A. Ansari, ICAR-IIFSR, Modipuram, Meerut

Dr. Azad Singh Panwar, Dr. N. Ravisankar, Dr. Mohammad Shamim, Dr. Raghuvir Singh, Dr. A.K. Prusty and Dr. M.A. Ansari have made outstanding research contributions by promoting balanced and integrated fertilizer use with emphasis on potassium through Integrated Farming Systems (IFS) and Organic farming approaches. The team conducted the on-station and on-farm research studies in 25 States/UTs involving 7,680 farmers from 384 villages covering 128 blocks in 64 districts which resulted in improvement in productivity, profitability, potassium use efficiency, environment friendly IFS and documented 84 geo-tagged success stories. Dr. Panwar and his team has developed and pioneered the concept of Integrated Organic Farming System (IOFS) and established 60 integrated farming systems including 8 number of IOFS models in 25 States/UTs. They have re-organized research activities to achieve the set goals of GOI such as Doubling of Farmers Income, reducing the use of mineral fertilizers and addressing the national issues such as nutritional security and carbon footprints. Their contribution in Integrated farming systems approach of nutrient management provides opportunity for balanced fertilization by recycling organics back into the system. They have conclusively proved that the integrated fertilizer use reduces the greenhouse gas (GHGs) emissions under various IFS models in all the agro-ecological zones.

XII. BEST ARTICLE AWARDS

A. RASHTRIYA CHEMICALS AND FERTILIZERS LIMITED AWARDS IN PRODUCTION AND TECHNOLOGY

First Prize

Mr. Rakesh Puri and Mr. Neeraj Rajesh, IFFCO, Aonla for their article entitled **Energy Saving and Reliability Improvement in Urea Plant through Innovative Solutions at IFFCO Aonla** published in the July, 2021 issue of *Indian Journal of Fertilisers*.

Second Prize

Mr. C.J. Shah and Mr. N.M. Bhoj, Krishak Bharati Cooperative Limited, Surat for their article entitled **Development of Anti-Surge Controls and Protection System for Motor Driven CO₂ Compressors in DCS at KRIBHCO** published in the August, 2021 issue of *Indian Journal of Fertilisers*.

B. SHRIRAM AWARDS IN MARKETING

First Prize

Mr. V.S. Sirohi, Krishak Bharati Cooperative Limited, Noida for his article entitled **Demand Supply Management for Ensuring Availability of Fertilizers** published in the September 2021 issue of *Indian Journal of Fertilisers*.

Second Prize

Dr. K.K. Singh, Adventz Group, Zuari Farmhub Limited, Bengaluru for his article **Role of Marketing Research in Fertilizer Sector** published in the September, 2021 issue of *Indian Journal of Fertilisers*.

C. DHIRU MORARJI MEMORIAL AWARD IN AGRICULTURAL SCIENCES

First Prize

Dr. Arvind Kumar Shukla and Dr. S.K. Behera, ICAR-IISS, Bhopal for their article entitled **Biofortification for Overcoming Zinc and Iron Malnutrition in Indian Population: Current Research Status and Way Forward** published in the December, 2020 issue of *Indian Journal of Fertilisers*.

Second Prize

Dr. S.K. Sanyal, Ex-VC, BCKV, Mohanpur and Dr. Kaushik Majumdar, APNI, Morocco for their article entitled **Potassium Availability in Soils, Crop Response and Evidence-based Approach for Rationalizing its Use in Crops** published in the February, 2021 issue of *Indian Journal of Fertilisers*.

D. SHRIRAM KHAD PATRIKA AWARD (HINDI)

First Prize

Dr. K.N. Tiwari, IFFCO, New Delhi and Dr. Rakesh Tiwari, SMS, Krishi Vigyan Kendra, Hastinapur, प्रथम पुरस्कार – जायद फसलों में सर्वोत्तम पोषक तत्व प्रबंधन published in the April, 2021 issue of *Khad Patrika*.

Second Prize

Dr. Barkha Sharma, Dr. Sarvesh Tripathy and Dr. Ramdhan Ghaswa, Krishi Vigyan Kendra Jaora, M.P. द्वितीय पुरस्कार – कदन्न अनाज: पोषण सुरक्षा के लिए स्थाई खाद्य विकल्प published in the May, 2021 issue of *Khad Patrika*.



Award Winners

FAI Best Production Performance Award - Nitrogenous (Ammonia & Urea) Fertilizer Plants



Joint Winners : IFFCO, Aonla-II and Chambal Fertilisers and Chemicals Ltd., Gadepan-III
Mr. Rakesh Puri, Senior Executive Director, IFFCO-Aonla, receiving the award

FAI Best Production Performance Award - Nitrogenous (Ammonia & Urea) Fertilizer Plants



Joint Winners : Chambal Fertilisers and Chemicals Limited, Gadepan-III and IFFCO, Aonla-II
Mr. Ajay Tayal, Assistant Vice President (Maintenance), CFCL-Gadepan, receiving the award

FAI Best Production Performance Award – DAP/NP/NPK Complex Fertilizer Plants



Special Award: Rashtriya Chemicals & Fertilizers Ltd., Trombay
Mr. S.C. Mudgerikar, Chairman & Managing Director, receiving the award

FAI Best Production Performance Award – DAP/NP/NPK Complex Fertilizer Plants



Winner : Indorama India Private Limited, Haldia
Mr. Harish Nair, Chief Commercial & Finance Officer, receiving the award

FAI Best Production Performance Award – Single Super Phosphate Plants



Winner : Rama Krishi Rasayan, Pune (A Division of Rama Phosphates Ltd.)
Mr. J.K. Parakh, President & CFO, receiving the award

FAI Best Production Performance Award - Improvement in Overall Performance of a Company



Joint Winners : IFFCO, Kalol and Kribhco Fertilizers Limited, Shahjahanpur
Mr. D.G. Inamdar, Senior Executive Director, IFFCO-Kalol, receiving the award

Award Winners

FAI Best Production Performance Award - Improvement in Overall Performance of a Company



Joint Winners : Kribhco Fertilizers Limited, Shahjahanpur and IFFCO, Kalol
Mr. N. K. Agarwal, General Manager (O&M), KFL-Shahjhanpur, receiving the award

FAI Best Technical Innovation Award



Winner : Chambal Fertilisers and Chemicals Limited, Gadepan
Mr. Vipul Mathur, Deputy General Manager (Urea), receiving the award

FAI Best Technical Innovation Award



Runner-up : Southern Petrochemical Industries Corporation Limited, Tuticorin
Mr. E. Balu, Chief Operating Officer, receiving the award

FAI Research, Development and Innovation Award



IFFCO
Dr. Ramesh Raliya, General Manager (R&D), receiving the award

FAI Award for Excellence in Safety



Special Award : Rashtriya Chemicals & Fertilizers Limited, Thal
Mr. S.C. Mudgerikar, Chairman & Managing Director, receiving the award

FAI Award for Excellence in Safety



Winner : Chambal Fertilisers and Chemicals Limited, Gadepan
Mr. Sanjay Aggarwal, Deputy General Manager (Fire & Safety), receiving the award

FAI Award for Excellence in Safety



Runner-Up : Yara Fertilisers India Private Ltd., Babrala
Mr. Khemraj Dureja, General Manager (Maintenance),
receiving the award

**FAI Best Environment Protection Award -
Nitrogenous Fertilizer Plants**



Winner: Mangalore Chemicals & Fertilizers Ltd., Mangaluru
Mr. Shubhabrata Saha, Managing Director,
receiving the award

**FAI Best Environment Protection Award -
Nitrogenous Fertilizer Plants**



Joint Runner-Up : Krishak Bharati Cooperative Limited, Surat &
Chambal Fertilisers and Chemicals Limited, Gadepan
Mr. Rajan Chowdhry, Managing Director, KRIBHCO-Noida,
receiving the award

**FAI Best Environment Protection Award -
Nitrogenous Fertilizer Plants**



Joint Runner-Up : Chambal Fertilisers and Chemicals Limited,
Gadepan and Krishak Bharati Cooperative Limited, Surat
Mr. Amit Goyal, Senior Manager (Process),
CFCL-Gadepan, receiving the award

**FAI Best Environment Protection Award - NP/NPK Complex
Fertilizer Plants with Captive Acids**



Special Award : IFFCO, Paradeep
Mr. R.K. Pandey, General Manager (Production),
receiving the award

**FAI Best Environment Protection Award - NP/NPK
Complex Fertilizer Plants with Captive Acids**



Special Award : Paradeep Phosphates Limited, Paradeep
Mr. Pranab Bhattacharya, Chief Manufacturing Officer,
receiving the award

Award Winners

FAI Best Environment Protection Award - NP/NPK Complex Fertilizer Plants without Captive Acids



Winner: IFFCO, Kandla
Mr. O.P. Dayama, Executive Director, receiving the award

FAI Best Environment Protection Award - Single Super Phosphate Plants



Special Award : Indorama India Private Limited, Haldia
Mr. Harish Nair, Chief Commercial & Finance Officer, receiving the award

FAI Best Environment Protection Award - Single Super Phosphate Plants



Winner : Khaitan Chemicals & Fertilizers Limited, Nimrani
Mr. Kishore Shewkani, Vice President (Production), receiving the award

FAI Best Video Film Award



Winner : Chambal Fertilisers and Chemicals Limited, New Delhi
Dr. Naresh Prasad, Deputy General Manager (Market Development), receiving the award

FAI Best Video Film Award



Runner-Up : Krishak Bharati Cooperative Limited, Noida
Mr. V.S. Sirohi, Marketing Director, receiving the award

FAI Award on Production, Promotion and Marketing of Biofertilizers/Organic Fertilizers/City Compost



Winner: Rashtriya Chemicals & Fertilizers Limited, Mumbai
Mr. S.C. Mudgerikar, Chairman & Managing Director, receiving the award



Special Award : IFFCO, New Delhi
Mr. Yogendra Kumar, Director (Marketing),
receiving the award



Winner: Adventz Group (ZACL, MCFL, PPL), Bengaluru
Dr. K.K. Singh, Group Head-Agri Services and R&D,
receiving the award



Special Award : IFFCO, New Delhi
Mr. Abhimanyu Rai, State Marketing Manager (U.P.),
receiving the award



Winner : Rashtriya Chemicals and Fertilizers Limited, Mumbai
Mr. S.C. Mudgerikar, Chairman & Managing Director,
receiving the award



Winner : Dr. N.B. Prakash, Dean, College of Agriculture, University
of Agricultural Sciences GKVK, Bangalore,
receiving the award



Winner - Dr. Abhijit Sarkar, Division of Soil Science and
Agricultural Chemistry, ICAR-IARI, New Delhi,
receiving the award

IPI-FAI Award for Promoting Balanced and Integrated Fertilizer Use with Emphasis on Potassium



Winner - Dr. A.S. Panwar, Dr. N. Ravisankar, Dr. M. Shamim, Dr. Raghuvveer Singh, Dr. A.K. Prusty and Dr. M.A. Ansari, ICAR-IIFSR, Modipuram, Meerut
Dr. A.S. Panwar, receiving the award

FAI Life Time Achievement Award 2021



Dr. R.K. Tewatia, Director (Agricultural Sciences), FAI, New Delhi, receiving the award

BEST ARTICLE AWARDS

A. RASHTRIYA CHEMICALS AND FERTILIZERS LIMITED AWARDS IN PRODUCTION AND TECHNOLOGY



First Prize :Mr. Rakesh Puri and his co-author Mr. Neeraj Rajesh, IFFCO, Aonla for their article **Energy Saving and Reliability Improvement in Urea Plant through Innovative Solutions at IFFCO Aonla** published in the July, 2021 issue of *Indian Journal of Fertilisers*.



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D. SHRIRAM KHAD PATRIKA AWARDS (HINDI)



First Prize : Dr. K.N. Tiwari, IFFCO, New Delhi and his co-author Dr. Rakesh Tiwari, SMS, Krishi Vigyan Kendra, Hastinapur, for their article **जायद फसलों में सर्वोत्तम पोषक तत्व प्रबंधन** published in the April, 2021 issue of *Khad Patrika*.



Second Prize : Dr. Barkha Sharma & her co-authors Dr. Sarvesh Tripathy and Dr. Ramdhan Ghaswa, Krishi Vigyan Kendra Jaora, M.P., for their article **कदन्न अनाज : पोषण सुरक्षा के लिए स्थाई खाद्य विकल्प** published in the May, 2021 issue of *Khad Patrika*.

Award Winners



Dr. K.L. Chadha receiving the U.S. Awasthi IFFCO Award for Life Time Achievement in the Field of "Agriculture Research and Development" for the year 2020-2021 for his life time contribution to the outstanding work in advancement of Horticulture Sector.



U.S. Awasthi IFFCO Award for Life Time Achievement in the Field of "Development of Fertilizer Industry" for the year 2020-2021 is Conferred on Dr. Amitava H. Roy for his outstanding contribution to the growth and development of fertilizer industry.

APPENDIX VI

FAI PUBLICATIONS

CORPORATE OFFICE

MONTHLY JOURNALS

1. Indian Journal of Fertilisers	12 issues
2. Fertiliser Marketing News	12 issues
3. FAI Abstract Service	12 issues
4. Khad Patrika (Hindi)	12 issues

ANNUAL PUBLICATIONS

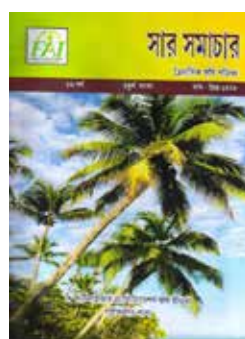
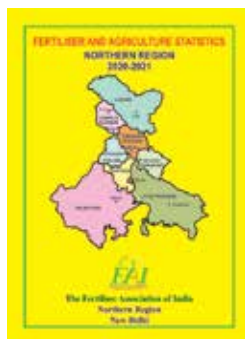
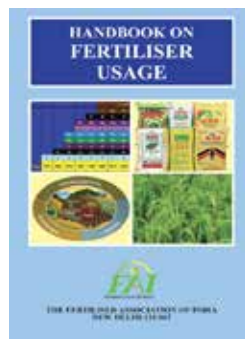
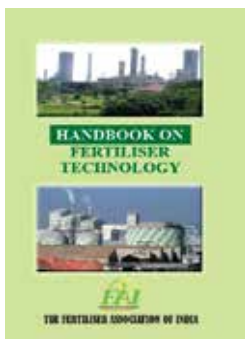
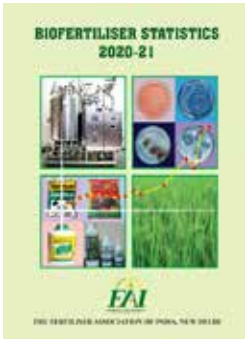
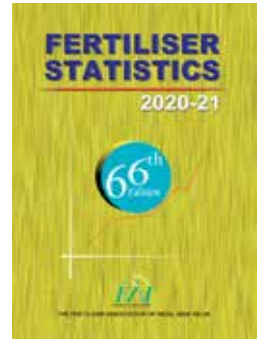
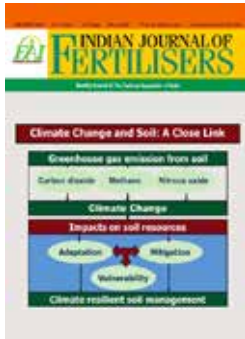
1. Annual Review of Fertilizer Production and Consumption–2020-21	September 2021
2. Fertiliser Statistics – 2020-21	November 2021
3. Specialty Fertiliser and Micronutrient Statistics – 2020-21	November 2021
4. Biofertiliser Statistics – 2020-21	November 2021
5. Pre-prints of FAI Seminar Papers – 2021	December 2021

REGIONAL PUBLICATIONS

1. EASTERN	
- Newsletter	Monthly
- State-wise, District-wise Statistical Bulletins	Monthly
- Saar Samachar (Bengali)	Quarterly
- Saar Batori (Assamese)	Quarterly
- Saar Barta (Oriya)	Quarterly
- Fertiliser and Agriculture Statistics	Annual
2. NORTHERN	
- Newsletter	Monthly
- Fertiliser and Agriculture Statistics	Annual
3. SOUTHERN	
- Newsletter	Monthly
- Fertiliser and Agriculture Statistics	Annual
4. WESTERN	
- Newsletter	Monthly
- Fertiliser and Agriculture Statistics	Annual

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FAI PUBLICATIONS



APPENDIX VII

FAI ADVISORY/REGIONAL COMMITTEE MEETINGS 2021-22

Advisory Committee	Chairman	No. of Meetings Held
Agricultural Sciences	Dr. S.K. Chaudhari, DDG (INM), ICAR, New Delhi	1
Environment	Mr. K. Prabhakar Rao, Director (Works), MCFL, Mangalore	1
Marketing	Mr. V.S. Sirohi, Marketing Director, KRIBHCO, Noida	1
Policy, Finance & Taxation	Mr. Satish Chander, Director General, FAI, New Delhi up to 7 th January, 2022 and then Dr. S. Nand, Acting Director General, FAI, New Delhi	1
SSP	Mr. Shailesh Khaitan, Chairman and Managing Director, KCFL, Gurugram	1
Technical	Mr. S.R. Ramakrishnan, Whole Time Director, Southern Petrochemical Industries Corporation Ltd., Chennai	2
Information and Communication	Mr. Satish Chander, Director General, FAI, New Delhi up to 7 th January, 2022 and then Dr. S. Nand, Acting Director General, FAI, New Delhi	1
Regional Committees		
East	Mr. Ashvini Hiran, CEO & MD, Indorama India Private Ltd., Kolkata	3
North	Mr. Sanjiv Kanwar, Managing Director, Yara Fertilisers India Pvt. Ltd., Gurugram	1
South	Mr. Kishore Rungta, Chairman and Managing Director, FACT, Kochi	4
West	Mr. S.C. Mudgerikar, Chairman and Managing Director, RCFL, Mumbai	4

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ADVISORY COMMITTEES

1. AGRICULTURAL SCIENCES

Chairman

Dr. S.K. Chaudhari
Deputy Director General (NRM)
Indian Council of Agricultural Research
Krishi Anusandhan Bhawan - II
Room No. 112, Pusa Campus, IARI
New Delhi - 110 012

Member

Dr. P.P. Biswas
Senior Consultant (NRM Division)
Indian Council of Agricultural Research
Krishi Anusandhan Bhawan II
New Delhi - 110 012

Dr. Y.R. Meena
Additional Commissioner (Extension & INM)
Ministry of Agriculture & Farmers Welfare
Room No. 347, Krishi Bhavan
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Mr. Suryakanta Khuntia
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Kanpur Fertilizers and Chemicals Limited
C/o Jaiprakash Associates Limited
64/4, Site-4, Sahibabad Industrial Area
Shed - 2, Ground Floor, Right Wing
Ghaziabad - 201 010, Uttar Pradesh

Mr. Shashank Jain
Chief General Manager
Kanpur Fertilizers and Chemicals Limited
C/o Jaiprakash Associates Limited
64/4, Site-4, Sahibabad Industrial Area
Shed - 2, Ground Floor, Right Wing
Ghaziabad - 201 010, Uttar Pradesh

Mr. R. Srinivasan
General Manager
Indian Potash Limited
Seethakathi Business Centre
1st Floor, PB No. 738, Anna Salai
Chennai - 600 006, Tamil Nadu

Mrs. M.M. Nalini
Additional General Manager (Accounts)
Indian Potash Limited
Seethakathi Business Centre
1st Floor, PB No. 738, Anna Salai
Chennai - 600 006, Tamil Nadu

Mr. Ashutosh Arora
Vice President (Finance)
Hindustan Urvarak & Rasayan limited
Core-3, 9th Floor, SCOPE Minar
Laxmi Nagar District Centre
New Delhi - 110 092

6. SINGLE SUPER PHOSPHATE

Chairman

Mr. Shailesh Khaitan
Chairman & Managing Director
Khaitan Chemicals & Fertilizers Limited
K-9/4, House No. 4, Road No.9, DLF City Phase-II
Gurugram - 122 002, Haryana

Members

Mr. Manoj Chheda
Director
Aarti Industries Limited, Udyog Kshetra, 2nd Floor
Mulund Goregaon Link Road, Mulund (W)
Mumbai- 400 080, Maharashtra

Mr. Veenu Jain
Managing Director
BEC Fertilisers
31, Maker Chamber III, 3rd Nariman Point
Mumbai - 400 023, Maharashtra

Mr. Shashikant Bhartia
Chairman
Basant Agro Tech (I) Limited
Sea Lord A-1/3, Cuffe Parade
Mumbai - 400 005, Maharashtra

Mr. G. Srikrishna
Managing Director
Chemtech Fertilisers Private Limited
303, Siri Estate, Nagarjuna Nagar Colony
Hyderabad - 500 073, Telangana

Mr. S. Sankarasubramanian
President (Fertilizers)
Coromandel International Limited
Coromandel House, 1-2-10, Sardar Patel Road
Secunderabad - 500 003, Telangana

Mr. Sudheer Relan
General Manager (Marketing)
Indian Potash Limited
Potash Bhawan, 10-B, Rajendra Park
Pusa Road, New Delhi - 110 060

Mr. C. Narasimha Reddy
Vice President & BU Head - Agri
Jubilant Agri and Consumer Products Limited
Plot No. 142, Chimes, 3rd Floor
Sector 44, Gurugram - 122 003, Haryana

Mr. H. Agnihotri
President
Khaitan Chemicals & Fertilizers Limited
1/2, Old Palasia, Apollo Arcade, 3rd Floor
Indore - 452 001, Madhya Pradesh

Mr. B.P. Raval
Director
Narmada Agro Chemicals Private. Limited
19-26, Udhyanagar, Shardagram Road
Mangrol - 362 225, District Junagarh, Gujarat

Mr. Dinesh Patel
Managing Director
Narmada Bio-chem Limited
Narmada House
Plot No.252, TP No. 50, Nr.Sun Builders
Sindhu Bhavan Road, Bodakdev
Ahmedabad 380 054, Gujarat

Mr. Akhil Maheshwari
Vice President (Marketing)
Nirma Limited
NIRMA House, Ashram Road
Ahmedabad - 380 009, Gujarat

Mr. H.D. Ramsinghani
Chairman and Managing Director
Rama Phosphates Limited
51/52 Free Press House, Nariman Point
Mumbai - 400 021, Maharashtra

Mr. S.K. Grover
Vice President
Shriram Fertilizers & Chemicals
(A Unit of DCM Shriram Limited)
9, Kirti Mahal, Rajendra Place
New Delhi - 110 025

Mr. Bidhan Sinha
Chief Supply Chain Officer
Indorama India Private Limited
P.S. Srijan Tech Park, DN 52
Unit No. A&B, 14th Floor
Sector V, Salt Lake
Kolkata-700 091, West Bengal

Mr. Hardev Singh
Chairman and Managing Director
Teesta Agro Industries Limited
Mazabari, P.O. Rajganji
District Jalpaiguri - 735 134, West Bengal

Mr. R.K. Ganeriwala
Vice President- Corporate Affairs & Secretary
The Jayshree Chemicals & Fertilisers
Industry House
15th Floor, 10 Camac Street
Kolkata - 700 017, West Bengal

Mr. Suresh Bangur
Executive Director
The Phosphate Company Limited
14, Netaji Subhash Road
Kolkata - 700 001
West Bengal

Mr. Milind Akerkar
Head SSP Business
Zuari Agro Chemicals Limited
Adventz Centre
3rd Floor, 28 Union Street
Off Cubbon Road
Bangalore- 560 001, Karnataka

8. TECHNICAL ADVISORY COMMITTEE

Chairman

Mr. S.R. Ramakrishnan
Whole Time Director
Southern Petrochemical Industries Corporation Limited
88, Mount Road, Guindy,
Chennai 600 032, Tamil Nadu

Members

Mr. Digambar Sahai
Director (Production)
Brahmaputra Valley Fertilizer Corp. Ltd.
Namrup Unit
P. O. Prabatpur - 786 623
District Dibrugarh, Assam

Mr. U.R. Singh
Vice President (Works)
Chambal Fertilisers and Chemicals Limited
P.O. Gadepan - 325 208, Kota, Rajasthan

Mr. Amir Alvi
Executive Vice President and Head of Manufacturing
Coromandel International Limited
Coromandel House, 1 - 2 - 10,
Sardar Patel Road
Secunderabad - 500 003, Telangana

Mr. M.I. Shamsi
General Manager
Gujarat Narmada Valley Fertilizers &
Chemicals Limited
P. O. Narmadanagar - 392 015
District Bharuch, Gujarat

Mr. S. P. Bhatt
Senior Vice President (OP-II)
Gujarat State Fertilizers & Chemicals Limited
P. O. Fertilizernagar - 391 750,
District Vadodara, Gujarat

Mr. Rajendra Sankhe
Chief Operating Officer
Indorama India Private Limited
P. O. Jagdishpur Industrial Area - 227 817
District Amethi, Uttar Pradesh

Mr. Nishit Dave
Assistant Vice President (Fertilizer)
Hindalco Industries Limited
(Unit : Birla Copper), AT & P.O. Dahej
District Bharuch - 392 130, Gujarat

Mr. G.K. Gautam
Director (Technical)
Indian Farmers Fertiliser Cooperative Limited
IFFCO Sadan, C-1 District Centre
Saket Place, New Delhi - 110 017

Mr. C.S. Prasad
Chief Operating Officer
Indorama India Private. Limited
Haldia, Midnapore (W), 721 606, West Bengal

Mr. Devinder Singh Ahuja
Director
Kanpur Fertilizers and Chemicals Limited
Jaypee Corporate Office, NIRMAN SADAN
Tower-2, Ground Floor, Sector - 128,
Noida - 201 304, Uttar Pradesh

Mr. R.K. Chopra
Managing Director
Kribhco Fertilizers Limited
Village Piprola, Shahjahanpur - 242 001, Uttar Pradesh

Mr. M.R. Sharma
Operations Director
Krishak Bharati Cooperative Limited
Hazira Fertilizer Complex
P.O. KRIBHCO Nagar - 394 515, Surat, Gujarat

Mr. S. Girish
Chief manufacturing Officer
Mangalore Chemicals and Fertilizers Limited
P. B. No. 18, Panambur
Mangalore - 575 010, Karnataka

Mr. Harsh Malhotra
Director (Technical)
Madras Fertilizers Limited
Manali, Chennai - 600 068, Tamil Nadu

Mr. Ajay Shankar Singh
Head (Ammonia)
Matix Fertilisers and Chemicals Limited
Panagarh Industrial Park, Panagarh
Purba Bardhaman – 713 169, West Bengal

Mr. R. Raghavan
Senior Vice President
(Urea Manufacturing)
Nagarjuna Fertilizers and Chemicals Limited
Nagarjuna Hills, Punjagutta
Hyderabad - 500 082, Telangana

Mr. J.S. Singh
Executive Director (Technical)
National Fertilizers Limited
A-11, Sector 24, Noida - 201 301, Uttar Pradesh

Ms. Manisha Narang
Additional General Manager (Planning & MR, Process)
Projects and Development India Limited
PDIL Bhawan, A-14, Sector-1
Noida - 201 301, Uttar Pradesh

Mr. Pranab Bhattacharyya
Chief Manufacturing Officer
Paradeep Phosphates Limited
P.O. PPL, Township, District
Jagatsinghpur - 754 145, Odisha

Mr. M.M. Deo
Director (Technical)
Rashtriya Chemicals and Fertilizers Limited
Priyadarshini Building
Eastern Express Highway, Sion
Mumbai - 400 022, Maharashtra

Mr. Ashwani Kaul
Joint Vice President (Fert. and R&D)
Shriram Fertilisers and Chemicals
(A unit of DCM Shriram Limited)
P. O. Shriramnagar, Kota - 324 004, Rajasthan

Mr. Radheshyam Singh
Executive Vice President
Smartchem Technologies Limited
(A fully owned subsidiary of DFPCL)
K-1, MIDC Industrial Area, District Raigad
Taloja A.V. - 410 208, Maharashtra

Mr. E. Balu
Chief Operating Officer
Southern Petrochemical Industries Corporation Limited
P. O. SPIC Nagar - 628 005
Tuticorin, Tamil Nadu

Mr. Ajith Kumar T.P.
Chief General Manager (PC)
The Fertilisers and Chemicals Travancore Limited
Eloor, Udyogamandal
Kochi - 683 501, Kerala

Mr. Maya Shanker Prasad
Vice President (Manufacturing)
Yara Fertilisers India Private Limited
Indira Dham, P. O. Babrala - 242 021
District Sambhal
Uttar Pradesh

Mr. N.M. Kantak
Executive Director
Zuari Agro Chemicals Limited
Jai Kisaan Bhawan, Zuarinagar
Goa – 403 726

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APPENDIX IX

FAI MEMBERS (AS ON 31.3.2022)

ACTIVE MEMBERS

1. **Asian Fertilizers Limited**
P.W.D. Officers Colony
Near Rastriya Sahara Press
Park Road, Gorakhpur - 273 001
Uttar Pradesh
2. **BEC Fertilizers**
(Unit of Bhillai Engg. Corp.Ltd.)
Sector A, Sirgetti Industrial Area
Sirgetti, Bilaspur 495 004
Chattisgarh
3. **Bharat Agri Fert. & Realty Limited**
301, 3rd Floor, Hubtown Solaries,
N.S. Phadke Marg,
Near East West Flyover, Andheri (East)
Mumbai - 400 069, Maharashtra
4. **Brahmaputra Valley Fertilizer Corporation Limited**
Regd. Office Namrup
P.O. Parbatpur
District Dibrugarh 786 623, Assam
5. **Chambal Fertilisers and Chemicals Limited**
Corporate One, First Floor,
5, Commercial Center, Jasola
New Delhi - 110 025
6. **Coimbatore Pioneer Fertilizers Private Limited**
P.O. Muthugoundanpudur
Via Sulus
District Coimbatore 641 006
Tamil Nadu
7. **Coromandel International Limited**
1-2-10, Sardar Patel Road
Post Box No. 1589
Secunderabad 500 003
Telangana
8. **DCM Shriram Limited**
(Unit : Shriram Fertilizers & Chemicals)
2nd Floor, (West Wing), World Mark 1, Aerocity,
New Delhi - 110 037
9. **Greenstar Fertilizers Limited**
SPIC House
No. 88, Mount Road, Guindy
Chennai 600 032
Tamil Nadu
10. **Gujarat Narmada Valley Fertilizers & Chemicals Limited**
P.O. Narmada Nagar
District Bharuch 392 015
Gujarat
11. **Gujarat State Fertilizers & Chemicals Limited**
P.O. Fertilizernagar
District Vadodara 391 750
Gujarat
12. **Hindalco Industries Limited**
(Unit : Birla Copper)
3rd Floor, Aries House,
Near Hotel Siddharth Palace, Old
Padra Road, Baroda 390 015, Gujarat
13. **Indian Farmers Fertiliser Cooperative Limited**
IFFCO Sadan
C-1, District Centre, Saket Place,
New Delhi - 110 017
14. **Indian Potash Limited**
Potash Bhawan,
10-B, Rajendra Park, Pusa Road,
New Delhi - 110 060
15. **Indorama India Private Limited**
Ecocentre, EM-4, 12th Floor,
Unit No. ECSL-1201, Sector V
Salt Lake, Kolkata 700 091
West Bengal
16. **Jubilant Agri and Consumer Products Limited**
Plot No. 142, Chimes, 3rd Floor
Sector 44, Gurugram - 122 003
Haryana
17. **Kanpur Fertilizers & Chemicals Limited**
C/o Jaiprakash Associates Limited
Jaypee Greens Wish Town
Sector - 128, Noida - 201 304
Uttar Pradesh
18. **Khaitan Chemicals & Fertilizers Limited**
Apollo Arcade, 3rd Floor,
1/2, Old Palasia
Opposite Palasia Police Station,
Indore - 452 018, Madhya Pradesh
19. **Kribhco Fertilizers Limited**
4th Floor, KRIBHCO Bhawan
A-10, Sector 1, District Gautam Budh Nagar,
Noida - 201 301, Uttar Pradesh

20. **Krishak Bharati Cooperative Limited**
A8-10, Sector-1
District Gautam Budh Nagar
Noida - 201 301, Uttar Pradesh
 21. **Madras Fertilizers Limited**
Manali, Chennai - 600 068
Tamil Nadu
 22. **Mangalore Chemicals & Fertilizers Limited**
Level-11, UB Towers, UB City
24, Vittal Mallya Road
Bengaluru - 560 001, Karnataka
 23. **Matix Fertilisers and Chemicals Limited**
Poonam Chambers, B-Wing
5th Floor, Opp. Atria Mall
Dr. Annie Besant Road, Worli
Mumbai - 400 018
 24. **Micnelf Micronutrients Private Limited**
Shrikrishna, Krishnakeval Nagar,
1/A, Kondhwa Khurd
Pune - 411 048, Maharashtra
 25. **MMTC Limited**
Scope Building, Core-1
7, Institutional Area, Lodhi Road
New Delhi - 110 003
 26. **Nagarjuna Fertilizers & Chemicals Limited**
Nagarjuna Hills, Punjagutta
Hyderabad - 500 082, Telangana
 27. **National Fertilizers Limited**
A-11, Sector-24
District Gautam Budh Nagar
Noida - 201 301
Uttar Pradesh
 28. **Paradeep Phosphates Limited**
OSHWCS Building,
Pandit Jawahar Lal Nehru Marg
Bubhaneswar - 751 001
Odisha
 29. **R.C. Fertilisers Private Limited**
181-A, 18th Floor, Maker Tower
E Wing, Opp. World Trade Center
Cuffe Parade, Mumbai - 400 005
Maharashtra
 30. **Rama Phosphates Limited**
51 -52, Free Press House
Nariman Point, Mumbai - 400 021
Maharashtra
 31. **Rashtriya Chemicals and Fertilizers Limited**
Priyadarshini
Eastern Express Highway, Sion
Mumbai - 400 022, Maharashtra
 32. **Smartchem Technologies Limited**
Sai Hira Complex,
S.No. 93, Mundhwa, Shastri Nagar Yeravada,
Pune - 411 036
Maharashtra
 33. **Southern Petrochemical Industries Corporation Limited**
SPIC House
88, Mount Road, Guindy
Chennai - 600 032, Tamil Nadu
 34. **The Andhra Sugars Limited**
Post Box No. 102
Venkatarayapuram, District West Godavari,
Tanuku - 534 215
Andhra Pradesh
 35. **The Dharamsi Morarji Chemical Co. Limited**
Prospect Chambers
317/21, Dadabhoy Naoroji Road
Mumbai - 400 001, Maharashtra
 36. **The Fertilisers and Chemicals Travancore Limited**
P.O. Udyogamandal
Kochi, Alwaye - 683 501
Kerala
 37. **The Jay Shree Chemicals & Fertilisers**
Industry House, 15th Floor
10, Camac Street
Kolkata - 700 017, West Bengal
 38. **The Phosphate Company Limited**
14, Netaji Subhas Road, 3rd Floor,
Kolkata - 700 001, West Bengal
 39. **Yara Fertilisers India Private Limited**
502, Global Business Square
Plot No.32, Sector-44
Gurugram - 122 002, Haryana
 40. **Zuari Agro Chemicals Limited**
Jaikisaan Bhawan
Zuarinagar - 403 726
Goa
- ASSOCIATE MEMBERS**
1. **a c t infraport Limited**
Plot No. 391 & 392, Sector 1/A
Near Mamlatdar's Office, Gandhidham
Kutch - 370 201, Gujarat

2. **Aarti Fertilizers**
(A Division of Aarti Industries),
Plot No. 801, 801/23, GIDC Estate,
Phase III, District Valsad
Vapi - 396 195, Gujarat
3. **Abdullah Haji Rahimtula & Sons Private Limited**
DCM Building, 3rd Floor
Flat No.-3E, 16, Barakhamba Road
New Delhi - 110 001
4. **ACME Cleantech Solutions Private Limited**
Plot No. 152, Sector - 44
Gurugram - 122 002, Haryana
5. **Adani Ports and Special Economic Zone Limited**
Adani Corporate House, Plot No.83,
Institutional Area, Sector - 32,
Gurugram - 122 001, Haryana
6. **AgriMin Control International Private Limited**
602, Embassy Chambers, 6th Floor
Plot No. 5, 3rd Road, Khar (West)
Mumbai - 400 052, Maharashtra
7. **Agro Phos (India) Limited**
M-87, Trade Centre
18, Southtuko Ganj
Indore - 452 001, Madhya Pradesh
8. **Agro Service Center**
Rathi Oil Mill Compound
Subhash Ward
Harda - 461 331, Madhya Pradesh
9. **Ameropa India Private Limited**
Unit 16, Level 12, Two Horizon Centre
Golf Course Road
Gurugram - 122 002, Haryana
10. **Anshula Technological Engineering Consultants Private Limited**
A 401/402, LEO Building (Formerly Kohinoor CHS)
Plot No.479, T.P.S.III, 24th Road
Khar (West), Mumbai - 400 052 Maharashtra
11. **Anya Polytech & Fertilizers Private Limited**
B-243, Sector-26
Noida - 201 301, Uttar Pradesh
12. **Arihant Fertiliser & Chemicals India Limited**
119, First Floor, Bansi Trade Centre
585/5 M.G. Road, Dr.Roshan Singh Bhandari Marg
Indore - 452 001, Madhya Pradesh
13. **Avana Logistek Limited**
201 & 202, Salcon Aurum, Plot No-4
Jasola District Centre
New Delhi - 110 025
14. **Baltic Testing India Private Limited**
Hubtown Viva Building
Suite No. 313/314, 3rd Floor
Shankarwadi Western Express Highway
Jogeshwari (East)
Mumbai - 400 060, Maharashtra
15. **Basant Agro Tech (India) Limited**
95-96, 9th Floor, 'C' Wing
Mittal Court, Jamnalal Bajaj Marg Nariman Point
Mumbai - 400 021, Maharashtra
16. **Bhoomi Phosphate Private Limited**
F 96-97, RIICO Industrial Area, Gudli
Udaipur - 313 024, Rajasthan
17. **BIOFAC Inputs Private Limited (BIOFACTOR)**
74C, Anrich Industrial Estate
IDA Bollaram, Jinnaram,
Sangareddy (District)
Hyderabad - 502 325, Telangana
18. **Borochemie (India) Private Limited**
40-44A, Dheeraj Heritage, 4th Floor
S.V. Road, Santacruz (West)
Mumbai - 400 054, Maharashtra
19. **Chembond Water Technologies Limited**
Chembond Centre
EL-71, Mahape MIDC, Navi
Mumbai - 400 705, Maharashtra
20. **Chemtech Fertilisers Private Limited**
303, Siri Estate,
Nagarjuna Nagar Colony
Hyderabad - 500 073, Telangana
21. **Compagnie Indo-Francaise De Commerce Private Limited**
DCM Building, 3rd Floor
16, Barakhamba Road,
New Delhi - 110 001
22. **Compo Expert India Private Limited**
Tower – II, 108, World Trade Center
Kharadi, Pune - 411 014, Maharashtra
23. **Cooperatieve Rabobank U.A.**
Peninsula Business Park, Tower A
20th Floor, Senapati Bapat Marg
Lower Parel
Mumbai - 400 013, Maharashtra
24. **Coromandel SQM (India) Private Limited**
Coromandel House,
1-2-10, Sardar Patel Road
Secunderabad - 500 003, Telangana

25. **Cotecna Inspection India Private Limited**
(The Summit - Business Bay)
Office No.213, 214 & 215, Behind Guru Nanak
Petrol Pump, Opposite Cinemax
Off. Andheri - Kurla Road, Prakashwadi, Andheri (East)
Mumbai - 400 069, Maharashtra
26. **Criyagen Agri and Biotech Private Limited**
Survey No. 71/5, Doddaballapur -
Nelamangala State Highway - 74
Post : Karim Sonnenahalli
TQ : Doddaballapur
Bangalore Rural - 562 203, Karnataka
27. **Crop Life Science Limited**
Plot No.5165 GIDC Estate
Near 66 KV Sub Station
Ankleshwar - 393 002, Gujarat
28. **Dayal Fertilizers (P) Limited**
Delhi Road, Partapur
Meerut - 250 013, Uttar Pradesh
29. **Devdhar Chemicals Private Limited**
5th Floor, Guardian Square Building
CTS No.8/20, Plot No.6/20
Erandwane, Shankarrao Joshi Road
(Hotel Nisarg Lane), Nr. Nal Stop
Pune - 411 004, Maharashtra
30. **Dhanlakshmi Biochem Private Limited**
Prahladnagar, Satellite
Ahmedabad - 380 015, Gujarat
31. **Dhanuka Agritech Limited**
Dhanuka Group, Global Gateway Towers,
Tower B, Near Guru Dronacharya Metro Station
Gurugram 122 002, Haryana
32. **Diamond Shipbrokers**
(A division of Samsara Shipping Pvt. Ltd.)
101/102, Technopolis Knowledge Park
Mahakali Caves Road, Chakala
Andheri (E)
Mumbai - 400 093, Maharashtra
33. **Dreyamoor Fertilizers Overseas Pte. Limited**
403, Suncity Business Tower
Golf Course Road, Sector - 54
Gurugram - 122 002, Haryana
34. **Ebara Machinery India Private Limited**
902, Bhumiraj Costarica, Sector - 18,
Palm Beach Road, Sanpada,
Navi Mumbai - 400 705
Maharashtra
35. **Fair Lead Marine Services**
Office No. : 201, Second Floor
Riddhi Siddhi Arcade
Opp. Hotel Shiv Grand
Plot No. 13, Sector - 8, Gandhidham
Kutch - 370 201, Gujarat
36. **Farmfields Private Limited**
Corp. Office : #301, Orion Plaza
Door No.8-2-351/1/A/43, Road No.3
Banjara Hills
Hyderabad - 500 034, Telangana
37. **FCI Aravali Gypsum & Minerals India Limited**
Institutional Area, Sector-B,
Viveek Vihar Yojna,
Jodhpur - 342 005, Rajasthan
38. **Fertis India Private Limited**
Plot No.73, SMR House, 3rd Floor
Nagarjuna Hills, Punjagutta
Hyderabad - 500 082, Telangana
39. **GDS Chemicals & Fertilizers Private Limited**
Aska Road, Near Sarguna Street
Berhampur, District Ganjam - 760 006
Odisha
40. **Gemini Fertilizers**
Kothari Building,
114, Mahathma Gandhi Salai, Nungambakkam
Chennai - 600 034, Tamil Nadu
41. **Geolife Agritech India Private Limited**
301, Marathon Max, LBS, Marg
Opposite Nirmal Lifestyle, Mulund West
Mumbai 440 018, Maharashtra
42. **Gokul Agri Internatikonal Limited**
State Highway No. 41
Nr.Sujanpur Patia, Dist. Patan
Sidhpur - 384 151, Gujarat
43. **Growell Resources & Management Private Limited**
Bharat Insurance Building, 2nd Floor
15-A, Horniman Circle Fort
Mumbai - 400 001, Maharashtra
44. **Gujarat Agro Industries Corporation Limited**
Agro Service Division
Khet Bhavan, Opposite Old High Court Navrangpura,
Ahmedabad - 380 014 Gujarat
45. **Haldor Topsoe India Private Limited**
Vatika Mindscapes, Tower A, 3rd Floor
12/3, Mathura Road (NH-2), Sector - 27
Faridabad - 121 003, Haryana

- | | |
|---|---|
| <p>46. HBS Fertilisers & Chemicals Industries Private
1, Abdul Hamid Street
5th Floor, Room No. - 502
Kolkata - 700 069, West Bengal</p> <p>47. HCM Agro Products Private Limited
RR-29, First Floor, Miyan Wali Nagar
Paschim Vihar
New Delhi - 110 087</p> <p>48. HE Marketing Private Limited
12th Floor, Knowledge Park
Hiranandani Business Park, Powai
Mumbai - 400 076, Maharashtra</p> <p>49. HIL (India) Limited
Scope Complex, 2nd Floor, Core-6
7, Lodhi Road
New Delhi - 110 003</p> <p>50. Hindustan Urvarak & Rasayan Limited
Core - 4, 9th Floor, Scope Minar
Laxmi Nagar Districr Centre
New Delhi - 110 092</p> <p>51. Hindustan Zinc Limited
Yashad Bhawan
Udaipur - 313 004, Rajasthan</p> <p>52. ICL Fertilizers (India) Private Limited
306, Tower A, Millennium Plaza
Sector 27
Gurugram - 122 002, Haryana</p> <p>53. IFFCO-TOKIO General Insurance Co. Limited
IFFCO Tower, 4th & 5th Floor
Plot No.3, Sector-29
Gurugram - 122 001, Haryana</p> <p>54. IL & FS Environmental Infrastructure and Services Limited
Plot no - 8,9, 3rd floor, MM tower
(Above Passport Sewa Kendra)
Phase - 4, Udyog Vihar
Gurugram - 122 002, Haryana</p> <p>55. Indian Agrochem Industries Private Limited
Plot No. B-13, MIDC, Badlapur (E)
Dist. Thane - 421 503, Maharashtra</p> <p>56. Indian Micro-Fertilizers Manufacturers Association (IMMA)
201, 2nd Floor, Shrikrishna Apartments
Market Yard Road, Opp. Apsara Theatre,
Pune - 411 037, Maharashtra</p> <p>57. Indian Phosphate Limited
F-234, 1E, Mewar Industrial Area
Madri, Udaipur - 313 003, Rajasthan</p> | <p>58. Inspectorate Griffith India Private Limited
Ecocentre, 16th Floor, Unit 1601
Block - EM04, Salt Lake, Sector - V
Kolkata - 700 091, West Bengal</p> <p>59. Intertek India Private Limited
F Wing, 1st Floor, Tex Center
Chandivali Farm Road, Chandivali Andheri (E),
Mumbai 400 072 Maharashtra</p> <p>60. Ion Exchange India Limited
Ion House
Dr. E. Moses Road, Mahalaxmi
Mumbai - 400 011, Maharashtra</p> <p>61. ISGEC Heavy Engineering Limited
Yamunanagar, Haryana</p> <p>62. J.B. Boda Insurance Surveyors & Loss Assessors Private Limited
1304, 13th Floor, Vijaya Building
17, Barakhamba Road
New Delhi - 110 001</p> <p>63. J.J. Consultants Private Limited
6, Sunder Nagar,
New Delhi - 110 003</p> <p>64. J.M. Baxi & Co.
1006, 10th Floor, Mohandev Building
13, Tolstoy Marg, New Delhi - 110 001</p> <p>65. Jaishil Sulphur and Chemical Industries
B Wing, 202/203 Pratik Industrial Estate
Bhandup Goregaon Link Road,
Near Fortis Hospital, Bhandup (W)
Mumbai - 400 078, Maharashtra</p> <p>66. Jyoti Consultants
B-79, Defence Colony
Bhisham Pitamaha Marg
New Delhi - 110 024</p> <p>67. K.P.R. Agrochem Limited
8-256, Tata Nagar, Balabhadrapuram
District East Godavari - 533 343
Andhra Pradesh</p> <p>68. K+S Fertilizers (India) Private Limited
Office No. 411, 4th Floor
Good Earth Business Bay, Sector 58
Gurugram - 122 098, Haryana</p> <p>69. Kan Biosys
917/17, Raveedeeep, Ganeshkiadi
Off F.C. Road, Prin. K.R. Kanitkar Path
Pune - 411 004, Maharashtra</p> |
|---|---|

70. **Karaikal Port Private Limited**
No.39, Chettinad Chambers, 5th Street
3rd Floor, R.K. Salai, Near AVM
Rajeshwari Marriage Hall
Chennai - 600 004, Tamil Nadu
71. **Karneet Enterprises (India) Private Limited**
No. 23/3, 1st & 2nd Floor
Hare Krishna Road, Crescent Road
High Grounds,
Bengaluru - 560 001, Karnataka
72. **KBR Engineering & Construction India Private**
16th Floor, Tower A, Building No. 5
DLF Cyber Terraces, DLF Phase III
Gurugram - 122 002, Haryana
73. **Key-Tech Engineering Company**
801A, Seabreeze, above Reliance Digital,
New Prabhadevi Road Prabhadevi
Mumbai - 400 025, Maharashtra
74. **Keytrade AG**
India Liaison Office
B-260, Greater Kailash - I
New Delhi - 110 048
75. **Khandelwal Distributors Private Limited**
More Kothi, Gangapur, Shyamganj
Bareilly - 243 005, Uttar Pradesh
76. **Knack Packaging Private Limited**
330/A , 3rd Floor, Kalasagar Mall
Opp. Sai Baba Temple,
Nr.Sattadhar Cross Roads, Ghatlodiya
Ahmedabad - 380 061, Gujarat
77. **Krishi Rasayan Exports Private Limited**
1115, Hemkunt Tower, 98, Nehru Place
New Delhi - 110 019
78. **Krishna Phoschem Limited**
5-O-2, Basement Office
R.C. Vyas Colony
Bhilwara - 311 001, Rajasthan
79. **Larsen & Toubro Limited**
Heavy Engineering Division
32, Shivaji Marg
New Delhi - 110 015
80. **Leon Inspection & Testing India Private Limited**
No.4, 3rd Floor, 5th Cross Street
Dr.Radha Krishnan Salai, Mylapore
Chennai - 600 004, Tamil Nadu
81. **Linde Engineering India Private Limited**
Linde House
Near Nilamber Circle, Vasna-Gotri Road, Vasna
Vadodara - 391 410, Gujarat
82. **Madhya Bharat Agro Products Limited**
5-0-1, Basement Office
R.C. Vyas Colony
Bhilwara - 311 001, Rajasthan
83. **Mahafeed Speciality Fertilizers (India) Private Limited**
Office No. 114, City Mall,
1st Floor Ganeshkhind Road
Near Pune University
Pune - 411 007, Maharashtra
84. **Mahamaya Enterprise**
12/A, Netaji Subhash Road
Ground Floor, Room No. 6
Kolkata - 700 001, West Bengal
85. **Manshya Marketing Private Limited**
S.No. 49, Part Rajkumar Lodha Industrial Estate
Vrindavan Nagar Lane No.3, Near Shatrunjay Mandir
Gokul Nagar, Katraj, Kondhwa Road Kondhwa BDK
Pune - 411 048, Maharashtra
86. **Marubeni India Private Limited**
Unit No. 01, 3rd Floor, Building A-2
Shaheed Jeet Singh Marg
Qutab Institutional Area
New Delhi - 110 067
87. **MECS India Private Limited**
81, 82, 83, 8th Floor, 2nd North Avenue
Maker Maxity, Bandra-Kurla Complex Bandra (East),
Mumbai - 400 051 Maharashtra
88. **Midgulf Services India Private Limited**
12th Floor, Pinnacle Mall, Plot No.3
Sector - 10, District Center Dwarka
New Delhi - 110 075
89. **Mitra S.K. Private Limited**
Shrachi Centre (5th Floor)
74B, AJC Bose Road,
Kolkata - 700 016, West Bengal
90. **Mosaic India Private Limited**
11th Floor, Building 8C,
DLF Cyber City, Phase II
Gurugram - 122 002, Haryana
91. **Multiplex Bio-Tech Private Limited**
No.180, 1st Main Road
Mahalakshmi Layout
Bengaluru - 560 086, Karnataka
92. **N G Fertilizers and Chemicals Private Limited**
224/2, 3, NH-5, Kodurupadu Village
Krishna - 521 110, Andhra Pradesh

93. **Naq Global Private Limited**
Plot No 36,37, Fifth Floor, SDC Vinay 1
Moji Colony, Calgary Marg
Malviya Nagar
Jaipur - 302 017, Rajasthan
94. **Narmada Agro Chemicals Private Limited**
19-26, Udyognagar
Shardagram Road, District Junagarh
Mangrol - 362 225, Gujarat
95. **Narmada Bio-chem Limited**
"Narmada House"
Plot No.252, TP No. 50
Nr.Sun Builders
Sindhuh Bhavan Road, Bodakdev
Ahmedabad - 380 054, Gujarat
96. **Narmada Phosphate Limited**
A-33, Priyadarshini Nagar,
(Just beside the street of Quality Restaurant),
Vyapar Vihar Road
Bilaspur - 495 001, Chattisgarh
97. **National Cooperative Development Corporation**
4, Siri Institutional Area
Opposite Siri Fort, Hauz Khas
New Delhi - 110 016
98. **Neelam Aqua & Speciality Chem Private Limited**
H-337 (D), Road No.17
V.K.I. Area, Jaipur - 302 013
Rajasthan
99. **Nextnode Bioscience Private Limited**
607, Abhishree Avenue
Opp. Hanumanji Temple, Nehrunagar Ambawadi,
Ahmedabad - 380 015 Gujarat
100. **Nico Orgo Manures**
Opposite Railway Station
Dakor - 388 225, Gujarat
101. **Nirma Limited**
Nirma House
Ashram Road, Near I.T.O.
Ahmedabad - 380 009, Gujarat
102. **Oasis Chemical Industries**
W-57, Phase - 2, MIDC, Sonarpada
Dombivli East, Tal. Kalyan
District Thane - 421 203
Maharashtra
103. **OJSC Belarusian Potash Company**
The Palm Spring Plaza, Unit No.-402
4th Floor, Sector 54, Golf Course Road
Gurugram - 122 001, Haryana
104. **Ostwal Phoschem (India) Limited**
5-O-1, R.C. Vyas Colony
Bhilwara - 311 001, Rajasthan
105. **Patel Phoschem Limited**
114, 1st Floor, Ostwal Plaza-I
Air Port Road, Sunderwas
Udaipur - 313 001, Rajasthan
106. **Prabhat Fertilizer & Chemicals Works**
Vill - Kurali, Indri Road
Karnal - 132 001, Haryana
107. **Prathista Industries Limited**
1-5-1015, Plot # 80 & 81, Manjeera Colony
Father Balaiah Nagar, Old Alwal
Secunderabad - 500 010, Telangana
108. **Privi Life Sciences Private Limited**
Privi House, A-71, TTC Industrial Area
Thane Belapur Road, Kapor Khairane
Navi Mumbai - 400 709
Maharashtra
109. **Progressive Fertichem (Private) Limited**
Nizarapar, Jagi Road
District Morigaon - 782 410, Assam
110. **Projects & Development India Limited**
P.O. Box No.125
A-14, Sector-1
Noida - 201 301, Uttar Pradesh
111. **Pushpa J. Shah**
Plot No. 906/13, Near Ganesh Anand Chokdi
G.I.D.C. Panoli, Tal. Ankleshwar
District Bharuch - 394 116, Gujarat
112. **R.M. Phosphates & Chemicals Private Limited**
T-3/1, Bhabhle Phata
Phase II, MIDC Nardona
District Dhule - 424 309, Maharashtra
113. **Rajasthan State Mines & Minerals Limited**
4, Meera Marg
Udaipur - 313 001, Rajasthan
114. **Rajeev Khanna Consulting Inc.**
E-4, Qutab Hotel Complex
Shaheed Jeet Singh Marg
New Delhi - 110 016
115. **Rallis India Limited**
II Floor, III Block, KSCMF Ltd., Building
8th Cunningham Road
Bangalore - 560 052
Karnataka

116. **Ramagundam Fertilizers and Chemicals Limited**
3rd & 4th Floor, Mohta Building
4, Bhikaji Cama Place
New Delhi - 110 066
117. **Ramcides CropScience Private Limited**
Ramcides House,
No.59C, 8th Street North Phase
SIDCO Industrial Estate, Ambattur
Chennai - 600 098, Tamil Nadu
118. **ReAgro International**
404, Star Tower
Sector 30, Silokhera
Gurgaon 122 001, Haryana
119. **Reliance Industries Limited**
Industrial Marketing,
Building 5-C, 2nd Floor
Reliance Corporate Park
Thane-Belapur Road
Navi Mumbai - 400 709, Maharashtra
120. **Richfield Fertilisers Private Limited**
B-27, MIDC Ambad
Nashik - 422 010
Maharashtra
121. **Rio Tinto India Private Limited**
21st Floor, Tower A, Building No.5
Cyber Terrace, DLF Cyber City, DLF Phase III,
Gurugram - 122 002, Haryana
122. **Rishi Shipping**
Rishi House, Plot No. 113-116
Ward - 6, Industrial Area, Gandhidham
Kutch - 370 201, Gujarat
123. **S.L.Dev & Co.**
75, Link Road
Suite No.102, Lajpat Nagar III
New Delhi - 110 024
124. **Sabci India Private Limited**
10th Floor, Ambience Corp. Towers II
Ambience Island,
Gurugram - 122 001, Haryana
125. **Sai Fertilizers Private Limited**
21, Princep Street
Kolkata - 700 071, West Bengal
126. **Saigal Seatrade Private Limited**
J.V. House, 2nd Floor,
D.S. Babrekar Marg, Dadar (West)
Mumbai - 400 028, Maharashtra
127. **Saipem India Projects Private Limited**
Millenia Business Park, Phase II Campus 3A
143, Dr. M.G.R. Road, Kandhanchavadi Perungudi
Chennai - 600 096, Tamil Nadu
128. **Samsung C&T Corporation India Private Limited**
6th Floor, 2A-0601, Two Horizon Centre
Golf Course Road, Sector-43
DLF Phase-V
Gurugram - 122 002, Haryana
129. **Sarat Chatterjee & Co. (Visakhapatnam) Private**
28-2-47, 1 St Floor, Daspalla Centre Suryabagh
Visakhapatnam - 530 020
Andhra Pradesh
130. **Scientific Agriculture Laboratory Private Limited**
3/196, Natham Main Road
Manthikulam Villakku, Karuvanur Post
Madurai - 625 014, Tamil Nadu
131. **Seatrans Marine Private Limited**
ABIR KUNJ, 2nd Floor
158, Rajdanga Naba Pally (Besides HDFC Bank)
Kolkata - 700 107, West Bengal
132. **Shail Info**
B-053, Oakwood Estate
DLF City, Phase-II
Gurugram - 122 002, Haryana
133. **Shanmukha Agritec Limited**
7-1-621/98 & 621/34, Opp. Axis Bank
S.R. Nagar Main Road
Hyderabad 500 038, Telangana
134. **Shiv Sulphuric Solutions (OPC) Private Limited**
B-2104, Jasmine Tower
Vasant Vihar, Pokhran, Road No.-2
Thane - 400 610, Maharashtra
135. **Shiva Global Agro Industries Limited**
Near State Bank of India
New Mondha
Nanded - 431 602, Maharashtra
136. **Shree Pushkar Chemicals and Fertilisers Limited**
404, Picasso Plaza, above Jyoti Restaurant,
Kondhawa Khurd
Pune - 411 048, Maharashtra
137. **Shri Ram Solvent Extractions Private Limited**
Kashipur Road, Jaspur
Dist. Udham Singh Nagar - 244 712
Uttarakhand
138. **Silverline Fertilisers Private Limited**
2nd Floor, Door No: 19
Old Door No:67, Dr Ranga Road Mylapore
Chennai - 600 004, Tamil Nadu

139. **Solvay Specialities India Private Limited**
Equinox Business Park, Tower No.-4
9th Floor, Unit No. 903
L.B.S. Marg, Kurla (W)
Mumbai - 400 070, Maharashtra
140. **Sud-Chemie India Private Limited**
401/402 - Office Block, DLF Place
Plot : A-4, District Centre, Saket
New Delhi - 110 017
141. **Sulphur Mills Limited**
604/605, 349-Business Point, 6th Floor
Western Express Highway, Andheri (E)
Mumbai - 400 069, Maharashtra
142. **Sun International Private Limited**
7th Floor, Le Meridien Commercial Tower
Raisina Road
New Delhi - 110 001
143. **T.J.Agro Fertilizers Private Limited**
A-2/3, J.K. Tower
Near Grid, Kabilpore
Navsari 396 424, Gujarat
144. **Technip India Limited**
Technip Centre
No.19, Velachery Main Road, Guindy
Chennai - 600 032, Tamil Nadu
145. **Tecnimont Private Limited**
Building No.-2, Plot No.504
Chincholi Bunder, Link Rd., Malad (W)
Mumbai - 400 064, Maharashtra
146. **Teesta Agro Industries Limited**
P.O. Rajganj, Distt. Jalpaiguri
Jalpaiguri - 735 134, West Bengal
147. **Tessengerlo Kerley India Private Limited**
A-303, Park View City - 1
Sector - 48, Sohna Road
Gurugram - 122 018, Haryana
148. **The Andhra Pradesh State Co-operative Marketing Federation Limited**
5-2-68, 3rd Floor, Mahatma Gandhi
Markfed Bhavan, Jambagh
Hyderabad - 500 095, Telangana
149. **The Gujarat State Cooperative Marketing Federation Limited**
N.P. Patel Sahkar Bhavan,
49, Shrimali SO. Opposite Navrangpura Police Station,
Navrangpura
Ahmedabad - 380 009, Gujarat
150. **The Haryana State Cooperative Supply and Marketing Federation Limited**
Hafed Complex, Sector - 5
Panchkula -134 114, Haryana
151. **The Kerala State Co-operative Rubber Marketing Federation Limited**
P.B. No.15, Gandhi Nagar
Kochi - 682 020, Kerala
152. **The Madhya Pradesh State Cooperative Marketing Federation Limited**
P.O. Jehangirabad
Bhopal 462 008, Madhya Pradesh
153. **The Maharashtra Agro-Industries Development Corporation Limited**
Krushi Udyog Bhavan
Dinkarrao Desai Marg, Aarey Colony
Goregaon (East)
Mumbai - 400 063, Maharashtra
154. **The Maharashtra State Cooperative Marketing Federation Limited**
Kanmoor House
P.B. No. 5080, Narsi Natha Street
Mumbai - 400 009, Maharashtra
155. **The Vidarbha Cooperative Marketing Society Limited**
Industrial Area
Model Mill Road, Ganeshpeth
Nagpur - 440 018, Maharashtra
156. **The West Bengal State Cooperative Marketing Federation Limited**
Southend Conclave, 3rd Floor, (KMDA Building)
Opposite Siemens, 1582, Rajdanga Main Road
Kolkata - 700 017, West Bengal
157. **The World Bank (IBRD)**
70 Lodhi Estate
New Delhi - 110 001
158. **ThyssenKrupp Industrial Solutions (India) Private Limited**
Uhde House, Lal Bahadur Shastri Marg
Vikhroli (W)
Mumbai - 400 083, Maharashtra
159. **Timac Agro India Private Limited**
Ground Floor, Unique Sterling
8/2 Sterling Road 3rd Cross Nungambakkam
Chennai - 600 034, Tamil Nadu
160. **TLI Tradelink India General Trading LLP**
Workloft, 61 DER Deutsche Parkz
Subhash Nagar Road, Nahur West
Mumbai - 400 078, Maharashtra

161. **Toyo Engineering India Private Limited**
214, Splendor Forum, Jasola District Centre,
Near Apollo Hospital
New Delhi - 110 044
162. **Tradex India Corporation Private Limited**
C-15, Qutab Institutional Area
New Delhi - 110 016
163. **Trans Farm (Private) Limited**
Mahak Apartments
1st Floor, Road # 13, Banjara Hills
Hyderabad - 500 034, Telangana
164. **Tubacex Service Solutions India Private Limited**
402 A, Platina, G-Block
Bandra Kurla Complex, Bandra (East)
Mumbai - 400 051, Maharashtra
165. **Universal Industries**
B-8, Industrial Estate
Bazpur Road
Kashipur - 244 713, Uttarakhand
166. **Universal Speciality Chemicals Private Limited**
Universal House, A/28 Kamgar Nagar
Co.Op.Hsg. Soc., S. G Barve,
Near Nandikeshwar Mandir Kurla East
Mumbai - 400 024, Maharashtra
167. **Uralkali Trading SIA**
303, Eros Corporate Tower
Nehru Place
New Delhi - 110 019
168. **Usashi Bio-Research Private Limited**
594/1, Dakshindari Road, Bima Abasan
Flat No. E-2/1, First Floor,
Post Office Sreebhumi
Kolkata - 700 048, West Bengal
169. **Vanita Agrochem (India) Private Limited**
Gat No. 1036 and 1037
Takawade - Sangli Naka Road,
A/P - Takawade, Tal : Shirol
Dist. Kolhapur - 416 121, Maharashtra
170. **Vardhman Fertilizers & Seeds Private Limited**
B-1, Vidha Cooperative Society
73/1, Erandwane
Pune - 411 004, Maharashtra
171. **Vasu Chemicals LLP**
Opposite Blossom Soc., Military Road
Marol, Andheri (E)
Mumbai - 400 059, Maharashtra

OVERSEAS ASSOCIATE MEMBERS

1. **Agrifields DMCC**
705, JBC5, Jumeirah Lake Towers
PO Box 111225
Dubai, UAE
2. **Argus Media Singapore Group Pte Limited**
50 Raffles Place, #10-01
Singapore Land Tower
Singapore 048623
3. **Aries Fertilizers Group Pte Limited**
#10-10, 6 Shenton Way
DBS Building Tower Two
Singapore 068809
4. **Canpotex International Pte. Limited**
38, Beach Road, Phalaborwa
1390, Transval, # 17-13, South Beach Tower,
Singapore 189767
5. **CRU International Limited**
CRU, Chancery House
53-64, Chancery Lane
London WC2A 1QS
United Kingdom
6. **Foskor Limited**
P.O. Box 1
Phalaborwa 1390, Transval
Republic of South Africa
7. **ICIS**
Quadrant House
The Quadrant, Sutton
Surrey, SM2 5A5, United Kingdom
8. **ICL Fertilizers**
Potash House P.O.B. 75
Beer-Sheva, 84100, Isreal
9. **Indo Jordan Chemicals Co. Limited**
P.O. Box 17028
Amman 11195, Al Rabia
Al Rabia, Hashemite
Kingdom of Jordan
10. **Jaingsu New Century Jiangan Environmental Protection Co. Limited**
29, Suyuan Avenue, Jiangning District,
Nanjing 211100, P.R. China
11. **Jordan Phosphate Mines Co. S.A.**
P.O. Box No.30
Amman, Jordan

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|--|--|
| <p>12. JSC NIIK
Russia, Nizhny Novgorod region
Griboedov Street, 31, 606008
Dzerzhinok 606008, Russia</p> <p>13. Kingenta Ecological Engineering Group Company Limited
No. 19 of Xing Da West Street Linshu,
Shandong Province, China</p> <p>14. Kisan International Trading FZE
Emaar Business Park # 2
Office EMO 562, Jebel Ali,
P.O. Box 261835, Dubai, UAE</p> <p>15. Koch Fertilizer LLC
4111 E, 37 Street North Wichita
Kansas 67220, USA</p> <p>16. OCP S.A.
Direction Commerciale
Angle Route d El Jadida et Boulevard Dela
Grande, Ceinture
Casablanca, Morocco</p> <p>17. Oman India Fertiliser Company S.A.O.C.
P.O. Box No. 67, PC-411
Sur, Sultanate of Oman</p> | <p>18. Saudi Arabian Mining Company "Ma'aden"
P.O. Box 68861,
Riyadh 11537
Kingdom of Saudi Arabia</p> <p>19. Stamicarbon B.V.
Mercator 3, 6135 KW Sittard.
P.O. Box 53,
6160, AB Geleen,
The Netherlands</p> <p>20. The Arab Potash Company Limited
P.O. Box 1470
Amman 11118, Jordan</p> <p>21. Tuv Austria
603B, Sama Tower,
Sheikh Zayed Road,
Dubai, U.A.E.</p> <p>22. UreaKnowHow.com
Cannerweg 123
6213 BA Maastricht,
The Netherlands</p> |
|--|--|

The following have been enrolled as members of FAI during 2021-22

Active Members

1. M/s. R.C. Fertilisers Private Limited, Mumbai

Associate Members

1. M/s. Agro Service Center, Harda, M.P.
2. M/s. Anya Polytech & Fertilizers Private Limited, Noida
3. M/s. Bhoomi Phosphate Private Limited, Distt. Udaipur
4. M/s. BIOFAC Inputs Private Limited (BIOFACTOR), Telangana
5. M/s. Gokul Agri Internatikonal Limited, Sidhpur, Gujarat
6. M/s. HBS Fertilisers & Chemicals Industries Private Limited, Kolkata
7. M/s. Oasis Chemical Industries, Dist. Thane
8. M/s. The World Bank (IBRD), New Delhi
9. M/s. Timac Agro India Private Limited, Chennai

The following have been ceased to be members of FAI during 2021-22

Active Members

1. M/s. Grasim Industries Limited, Sultanpur

Associate Members

1. M/s. Armaco Chemical Process Systems Private Limited, Mumbai
2. M/s. Bhaskar Fertilisers Limited, Anantapur, A.P.
3. M/s. Bohra Industries Limited, Udaipur
4. M/s. Crop Nutri Solutions (India) Private Limited, Secunderabad
5. M/s. Eminence Shipping Agencies Private Limited, Kolkata
6. M/s. Frost International Limited, New Delhi
7. M/s. HPM Chemicals and Fertilizers Limited, Delhi
8. M/s. Indra Industries Limited, Indore
9. M/s. Johnson Matthey Catalysts, Gurgaon
10. M/s. Kayavlon Impex Private Limited, Surat
11. M/s. Kohinoor Manure Factory, Distt. Muzaffarnagar, U.P.
12. M/s. Koppern Maco Services Private Limited, Kolkata
13. M/s. Manoir Petro India Limited, Mumbai
14. M/s. Mitsubishi Corporation India Private Limited, New Delhi
15. M/s. Nagarjuna Agro Chemicals Private Limited, Hyderabad
16. M/s. Outokumpu India Private Limited, New Delhi
17. M/s. Peregrine Phosphate (Private) Limited, Bengaluru
18. M/s. Roshni Crop Sciences Private Limited, Hyderabad
19. M/s. Sim Infosystems Private Limited, Chennai
20. M/s. Subhashri Bio Energies Private Limited, Distt. Namakkal, T.N.
21. M/s. Technology Development Board, New Delhi
22. M/s. The Karnataka State Co-operative Marketing Federation Limited, Bengaluru
23. M/s. Trammo India Private Limited, New Delhi
24. M/s. Transworld Furtichem Private Limited, Navi Mumbai
25. M/s. Trimex Industries Limited, Chennai
26. M/s. Varun Fertilizers Private Limited, Indore
27. M/s. VBC Fertilizers and Chemicals Limited, Hyderabad
28. M/s. Vedanta Limited - Unit Sterlite Copper, Tuticorin
29. M/s. Wartsila India Private Limited, Navi Mumbai

Overseas Associate Members

1. M/s. Ma'aden Phosphates Company, Saudi Arabia

The following have been enrolled as members of FAI w.e.f. 1.4.2022

Associate Members

1. M/s Cropex Limited, Bangalore
2. M/s. Fertiplant Engineering Co. Private Limited, Mumbai
3. M/s. Green Planet Bio Products, Jalandhar
4. M/s. Jaipur Bio Fertilizers, Jaipur
5. M/s. Mexican Agro Chemical Limited, Indore
6. M/s. Tamil Nadu Cooperative Marketing Federation Limited, Chennai

Change of Company Name

Active Members

1. M/s. Kanpur Fertilizers & Cement Limited to M/s. Kanpur Fertilizers & Chemicals Limited
2. M/s. Ranadey Micronutrients Private Limited to M/s. Micnelf Micronutrients Private Limited
3. M/s. Coimbatore Pioneer Fertilizers Limited to M/s. Coimbatore Pioneer Fertilizers Private Limited



APPENDIX X

Form No.MGT-9

Extract of Annual Return as on the Financial Year ended on 31st March, 2022

(a) Extract of Annual Return

I.	Registration and other details:																						
	i) CIN	:	U85300DL 1955NPL002999																				
	ii) Registration date	:	27 th May, 1955																				
	iii) Name of the company	:	The Fertiliser Association of India																				
	iv) Category of the company	:	Company limited by guarantee.																				
	v) Sub-category of the company	:	Company licensed U/s 26 of the Indian Companies Act 1913 corresponding to section 8 of the Companies Act 2013																				
	vi) Address of the Registered office and contact details	:	FAI House 10, Shaheed Jit Singh Marg New Delhi-110067 Tele: 011-26567144																				
	vii) Whether listed company	:	No																				
	viii) Name, Address and contact details of Registrar and Transfer agent, if any	:	N.A.																				
II.	Principal Business Activities of the Company	:	To unite all firms, companies, Corporations, Associations and individuals engaged in the fertilizer industry in India with a view to promoting the consideration and discussion of all questions affecting the trade of fertilizers and the interest of sound agriculture and for the improvement of the economic development of the fertilizer and agricultural industries, etc.																				
III.	Particulars of Holding, Subsidiary and Associate companies	:	NIL																				
IV.	Share Holding Pattern (Equity Share capital Breakup as percentage of Total Equity)	:	N.A																				
V.	Indebtedness	:	NIL																				
VI.	Remuneration of Director General*	:	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 5%;"></td> <td style="width: 45%;"></td> <td style="width: 5%; text-align: right;">Rs.</td> <td style="width: 45%;"></td> </tr> <tr> <td></td> <td style="padding-left: 20px;">i) Salary</td> <td></td> <td style="text-align: right;">66,22,884</td> </tr> <tr> <td></td> <td style="padding-left: 20px;">ii) Perquisites</td> <td></td> <td style="text-align: right;">26,67,752</td> </tr> <tr> <td></td> <td style="padding-left: 20px;">iii) Others</td> <td></td> <td style="text-align: right;">33,77,553</td> </tr> <tr> <td></td> <td style="padding-left: 20px;">Total</td> <td></td> <td style="text-align: right;">1,26,68,189</td> </tr> </table>			Rs.			i) Salary		66,22,884		ii) Perquisites		26,67,752		iii) Others		33,77,553		Total		1,26,68,189
		Rs.																					
	i) Salary		66,22,884																				
	ii) Perquisites		26,67,752																				
	iii) Others		33,77,553																				
	Total		1,26,68,189																				
VII.	Penalties/Punishment/Compounding of Offences	:	NIL																				

b) Number of Meetings of the Board

Five meetings of the Board were held during the year, as per the details below:

	Meeting Sl. No.		Date of Meeting
1.	399		29 th May, 2021
2.	400		24 th August, 2021
3.	401		25 th November, 2021
4.	402		7 th January, 2022
5.	403		14 th March, 2022

Meetings were found extremely useful for discussing various problems and issues for formulating strategies to be followed by the Association for achieving the desired results.

c) Directors Responsibility Statement

- i. In the preparation of the annual accounts, the applicable accounting standards had been followed along with proper explanation relating to material departures;
- ii. The Directors had selected such accounting policies and applied them consistently and made judgments and estimates that are reasonable and prudent so as to give a true and fair view of the state of affairs of the company at the end of the financial year and of the income and expenditure of the company for that period;
- iii. The Directors had taken proper and sufficient care for the maintenance of adequate accounting records in accordance with the provisions of this Act for safeguarding the assets of the company and for preventing and detecting fraud and other irregularities;
- iv. The Directors had prepared the annual accounts on a going concern basis; and
- v. The Directors had devised proper systems to ensure compliance with the provisions of all applicable laws and that such systems were adequate and operating efficiently.

d) The amounts, if any, which it proposes to carry to any reserves Rs.16,54,173 /-

e) Foreign Exchange earnings and outgo	i) Earnings	Rs. 8,101,429/-
	ii) Out go	Rs.13,288/-

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INDEPENDENT AUDITOR'S REPORT

To,
The Members of
THE FERTILISER ASSOCIATION OF INDIA
New Delhi

Report on the Financial Statements

We have audited the accompanying financial statements of **THE FERTILISER ASSOCIATION OF INDIA** (the Association), which comprise the Balance Sheet as at 31 March 2022 and the Income & Expenditure Account for the year ended and a Summary of the Significant Accounting Policies and other explanatory information.

Management's Responsibility for the Financial Statements

The Association's Board of Directors is responsible for the matters stated in section 134(5) of the Companies Act, 2013 (the Act) with respect to the preparation of these financial statements that give a true and fair view of the financial position, financial performance of the Association in accordance with the accounting principles generally accepted in India, including the Accounting Standards specified under section 133 of the Act, read with rule 7 of the Companies (Accounts) Rules, 2014. This responsibility, also, includes maintenance of adequate accounting records in accordance with the provisions of the Act for safeguarding of the assets of the Association and for preventing and detecting frauds and other irregularities, selection and application of appropriate accounting policies; making judgments and estimates that are reasonable and prudent and design, implementation and maintenance of adequate internal financial controls, that were operating effectively for ensuring the accuracy and completeness of the accounting records, relevant to the preparation and presentation of the financial statements that give a true and fair view and are free from material misstatement whether due to fraud or error.

Auditor's responsibility

Our responsibility is to express an opinion on these financial statements based on our audit.

We have taken into account the provisions of the Act, the accounting and auditing standards and matters, which are required to be included in the Audit Report under the provisions of the Act and the rules made there under.

We conducted our audit in accordance with the Standards on Auditing specified under section 143(10) of the Act. Those standards require that we comply with ethical requirements and plan & perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and the disclosures in the financial statements. The procedures, selected, depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal financial control relevant to the Association's preparation of the financial statements that give a true and fair view in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on whether the Association has in place an adequate internal financial controls system over financial reporting and the operating effectiveness of such controls. An audit also includes evaluating the appropriateness of the accounting policies used and the reasonableness of the accounting estimates made by the Association's directors, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion on the financial statements.

Opinion

In our opinion and to the best of our information and according to the explanations given to us, the aforesaid financial statements give the information required by the Act in the manner, so required, and give a true and fair view in conformity with the accounting principles generally accepted in India, of the state of affairs of the Association as at 31 March 2022, its surplus for the year ended on that date.

Emphasis of Matters

We draw attention to the following matters in the Notes to the financial statements:

None

Our opinion is not modified in respect of these matters.

Other Matter

With respect to the Other Matters to be included in the Independent Auditor's Report in accordance with Rule 11 of the Companies (Audit and Auditors) Rules, 2014, in our opinion and to the best of our information and according to the explanations given to us :

- ◆ The Association has the pending litigations before the Commissioner of Income Tax (Appeal) for financial year 2014-2015 (under the Income Tax Act, 1961). If the litigation is not in favour of the Association, it would impact the financial position of the Association.
- ◆ The Association did not have any long-term contracts, including derivative contracts, for which there were any material foreseeable losses.
- ◆ There were no amounts which were required to be transferred to the Investor Education and Protection Fund.

Our opinion is not modified in respect of this matter

Report on Other Legal and Regulatory Requirements

As required by section 143(3) of the Act, we report that

- a) we have sought and obtained all the information and explanations, which to the best of our knowledge and belief were necessary for the purposes of our audit.
- b) in our opinion, proper books of account, as required by law, have been kept by the Association, so far as it appears from our examination of those books.
- c) the Balance Sheet and the Income & Expenditure Account dealt with by this Report are in agreement with the books of account.
- d) In our opinion, the aforesaid financial statements comply with the Accounting Standards specified under section 133 of the Act, read with Rule 7 of the Companies (Accounts) Rules, 2014.
- e) On the basis of the written representations received from the directors as on 31 March 2022 taken on record by the Board of Directors, none of the directors is disqualified as on 31 March 2022 from being appointed as a director in terms of Section 164(2) of the Act.

Rajeev Lochan, Partner
Membership Number 086742

Lochan & Co

Chartered Accountants

Firm Registration Number : 008619N

UDIN: 22086742APCKOO5122

Place: Delhi

Date: 21.07.2022

THE FERTILISER ASSOCIATION OF INDIA BALANCE SHEET As on 31 March 2022

(Amount in INR)

As at March 31, 2021	Liabilities	As at March 31, 2022	As at March 31, 2021	Assets	As at March 31, 2022
Rs. in '000	Rs.	Rs. in '000	Rs. in '000	Rs.	Rs. in '000
	RESERVES AND SURPLUS			FIXED ASSETS (Net block)	
1,967.16	General Reserve	1,967.16		Per Schedule A annexed	
	Income and Expenditure Account		30,211.77	Gross cost	59,122.95
2,45,143.73	As per Previous year balance sheet	2,49,568.92		Less: Depreciation	30,739.04
4,425.19	Add: Excess of income over expenditure as per annexed account	1,654.18			
			2,51,223.09		
	EARMARKED ACCOUNTS (Invested per contra)				
	THE SULPHUR INSTITUTE (TSI) AWARDS			EARMARKED ACCOUNTS (Per contra) (As per schedule D(i))	
522.79	Balance as per Schedule B(i) annexed	537.45	522.79	TSI- Awards	537.45
	INTERNATIONAL PLANT NUTRITION INSTITUTE OF CANADA		213.89	IPNI Awards (As per Schedule D(ii))	220.10
	(IPNI) AWARDS				
	Funds received from International Plant Nutrition Institute of Canada-India				
	Programme represented by IPNI India and Bangladesh Program, Gurgaon				
213.89	Balance as per Schedule B (ii) annexed	220.10			

THE FERTILISER ASSOCIATION OF INDIA
BALANCE SHEET
As on 31 March 2022

As at March 31, 2021	Liabilities	As at March 31, 2022	As at March 31, 2021	Assets	As at March 31, 2022
Rs. in '000	Rs.	Rs. in '000	Rs. in '000	Rs.	Rs. in '000
	NATIONAL FERTILIZERS LIMITED (NFL) AWARDS		670.32	NFL Awards (As per Schedule D(iii))	699.65
	Funds received from National Fertilizers Limited, New Delhi				
670.32	Balance as per schedule B (ii) annexed	699.65			
	GOLDEN JUBILEE ENDOWMENT (GJEF) FUND		5,743.23	GOLDEN JUBILEE ENDOWMENT FUND (GJEF) (As per Schedule D(V))	7,496.22
5,743.23	Balance as per schedule B(v) annexed	6,039.02			
			95.23	NON CURRENT LOANS & ADVANCES	97.73
39,870.04	Agriculture promotion project (As per Schedule C(i))				
	CURRENT LIABILITIES AND PROVISIONS			CURRENT ASSETS, LOANS AND ADVANCES	
				(i) STOCK OF PAPER (AT COST)	135.27
	A. CURRENT LIABILITIES			(ii) SUNDRY DEBTORS	
				unsecured	
2,285.15	Govt. Dues			(a) Outstanding for a period exceeding six months	
	Sundry creditors			Considered good	2,385.03
306.25	Dues of other than small scale industrial undertakings			Considered doubtful	557.40
19,016.71	Advances received against membership subscription, training fees, rent, advertisements and research project	20,996.72			2,942.43

THE FERTILISER ASSOCIATION OF INDIA BALANCE SHEET As on 31 March 2022

As at March 31,2021	Liabilities	As at March 31,2021	As at March 31,2022	As at March 31,2022	Assets	As at March 31,2021	As at March 31,2022
Rs. in '000	Rs.	Rs. in '000	Rs. in '000	Rs.	Rs.	Rs.	Rs.
					Less: Provision for doubtful debts	3,515.32	557.40
							2,385.03
	B. OTHER CURRENT LIABILITIES				(b) Other debts		
72.36	Expenses Payable				Considered good		
		1,617.51			Considered doubtful		
2,304.32	Other Liabilities					4,102.97	
	C. PROVISIONS					4,102.97	
					Less: Provision for doubtful debts	4,440.82	-
3,314.34	Provision for expenses	2,039.69	24,653.92				4,102.97
							6,488.00
					(iii) CASH AND BANK BALANCES		
					Cash and cheques on hand	20.50	19.84
					Balance with scheduled banks		
					On current accounts	1,207.68	1,094.02
					On deposit accounts	2,26,167.32	2,38,042.67
					On saving bank accounts	13,361.50	7,687.49
							2,46,844.02
					(iv) LOANS & ADVANCES		
					(Unsecured and considered good)		
					Advances recoverable in cash or in kind or for value to be received*	11,135.52	9,885.03

THE FERTILISER ASSOCIATION OF INDIA
BALANCE SHEET
As on 31 March 2022

As at March 31, 2021	Liabilities	As at March 31, 2022	As at March 31, 2021	Assets	As at March 31, 2022
Rs. in '000	Rs.	Rs. in '000	Rs. in '000	Rs.	Rs. in '000
			24,092.15	Income-tax deducted at source	19,828.18
			4,262.59	Interest accrued on deposits	5,332.08
					35,045.29
3,25,855.48		3,24,490.44	3,25,855.48		2,88,377.31
					3,24,490.44

For Notes to the Accounts - See schedule 'F'

Rajeev Lochan,
Partner/Membership Number: 086742
Lochan & Co
Chartered Accountants
Firm Registration Number: 008019N

UDIN : 22086742APCK005122
Place: New Delhi
Date: 21.07.2022

-Sd-
D. Ramakrishnan
Secretary & Treasurer

-Sd-
S. Nand
Additional Director General

-Sd-
Rakesh Kapur
Director & Past Chairman

-Sd-
K.S. Raju
Chairman

THE FERTILISER ASSOCIATION OF INDIA

INCOME AND EXPENDITURE ACCOUNT

for year ended on 31 March 2022

(Amount in INR)

Previous year	Expenditure	Current year	Previous year	Income	Current year
Rs.in '000	Rs.	Rs.in '000	Rs.in '000	Rs.	Rs.in '000
44,622.97	Salaries and wages	47,301.08		Entrance fee from members	
4,151.01	Contributions to provident fund	4,484.11	4.50	Associate	4.50
5,130.54	Contributions to superannuation and other funds	5,568.10		Active	2.00
2,465.49	Contribution to gratuity fund	424.74		Membership fees from members	
537.95	Contribution to leave encashment assurance scheme	478.33	25,004.00	Active	26,534.25
2,549.68	Staff welfare expenses	2,812.67	2,980.00	Associate	3,560.00
3,151.93	Cost of publications (excluding overheads)	3,796.03	3,569.49	Overseas associate	2,683.07
16.42	Workshops, seminars, meetings etc.	48.81	199.50	Technical and professional associate	189.00
7,822.79	Annual Seminar Expenses	11,991.82	1,192.22	Website - subscription	1,271.94
1,915.60	Rates and taxes	1,641.97			
1,381.03	Electricity and water (net of recoveries)	1,662.82	16,005.94	Rent (gross) (Tax deducted at source Rs 1,249.33)	12,343.35
130.53	Insurance	122.82		Previous year Rs. 1,252.77)	
1,046.04	Printing, Stationary & communication	1,053.60		Advertisement revenue (Tax deducted at source Rs.79.56)	5,099.76
		-	4,704.52	Previous year Rs.66.88)	
		-		Sale of association's publications	1,964.44
61.86	Journals and periodicals	72.79	1,078.87		
621.64	Travelling and conveyance	669.98		FAI-training courses for technical / marketing personnel, Industry agronomist etc. (per schedule E annexed)	

THE FERTILISER ASSOCIATION OF INDIA

INCOME AND EXPENDITURE ACCOUNT
for year ended on 31 March 2022

(Amount in INR)

Previous year	Expenditure	Current year	Previous year	Income	Current year	Current year
Rs.in '000		Rs.in '000	Rs.in '000		Rs.	Rs.in '000
				Training fee received		6,508.25
			2,312.31	Less: Training Programme expenses (excluding overheads)		2,191.49
	Repairs and maintenance					
58.57	- Building	761.89				
199.32	- Plant and machinery	206.76				
601.24	- Others	626.43	19,064.35	Annual Seminar Receipts		21,417.32
303.22	- Security charges (Building)	301.59	1,896.67			
382.75	Bad debts written off		451.94	Interest received from: (Gross)*		
197.04	Provision for Doubtful debt		54.32	Deposits with banks	13,371.14	
2,111.56	Depreciation		2,055.33	Less: Transferred to:		
2,349.00	Professional & Consultancy Charges		1,806.45			
200.00	Audit fee		122.00			
3.05	Loss on sale of fixed assets		-	TSI Award	14.67	
199.22	Exchange fluctuations		136.40	IPNI Award	6.21	
3,157.14	Miscellaneous expenses		2,855.11	NFL Award	29.32	
				GJE Fund	295.79	
			12,804.68	Subtotal	345.99	13,025.15
			94.22	Loans to staff		51.37
			254.87	Income Tax Refund		357.02
			-	Profit on sale of fixed assets		215.00
			109.48	Provision for Doubtful Debts written back		4.50
			413.83	Miscellaneous receipts		122.63

THE FERTILISER ASSOCIATION OF INDIA

INCOME AND EXPENDITURE ACCOUNT for year ended on 31 March 2022

(Amount in INR)

Previous year	Expenditure	Current year	Previous year	Income	Current year
Rs.in '000	Rs.	Rs.in '000	Rs.in '000	Rs.	Rs.in '000
4,425.19	Balance being excess of income over expenditure for the year carried to balance sheet	1,654.17			
89,792.78		93,162.06	89,792.78		93,162.06

For notes to accounts see schedule 'F'
As per our report attached to the balance sheet

Rajeev Lochan, Partner
Membership Number: 086742
Lochan & Co
Chartered Accountants
Firm Registration Number: 008019N

UDIN:22086742APCK005122
Place: New Delhi
Date: 21.07.2022

-Sd-
D. Ramakrishnan
Secretary & Treasurer

-Sd-
S. Nand
Additional Director General

-Sd-
Rakesh Kapur
Director & Past Chairman

-Sd-
K.S. Raju
Chairman

Schedule - A to F Annexed to and forming part of the accounts

Fixed Assets **Schedule "A"**

(Amount in INR)

Particulars	GROSS BLOCK AT BLOCK VALUE			DEPRECIATION			NET BLOCK		
	As at 1.4.2021	Additions during the year	Deductions during the year	As at 31.3.2022	As at 1.4.2021	For the year	Deductions during the year	As at 31.3.2022	As at 31.3.2021
Leasehold Land-FAI, Delhi	144.90	-	-	144.90	-	-	-	144.90	144.90
Buildings	35,688.40	-	-	35,688.40	9,239.99	669.59	-	25,778.83	26,448.41
Airconditioning plant and diesel generator set	5,514.78	-	-	5,514.78	3,452.48	298.34	-	1,763.95	2,062.30
Furniture & Fittings etc.	7,761.80	-	57.22	7,704.58	7,093.57	487.60	57.22	180.61	668.23
Office Equipment, air conditioners etc.	2,801.44	93.06	-	2,894.50	2,574.39	115.96	-	204.15	227.05
Vehicle	4,517.21	-	1,439.18	3,078.02	4,054.62	330.47	1,439.18	132.13	462.60
Computers	3,963.35	134.42	-	4,097.77	3,765.06	153.37	-	179.34	198.28
Total	60,391.88	227.48	1,496.40	59,122.95	30,180.11	2,055.33	1,496.40	28,383.91	30,211.77
Total Previous Year	60,341.98	104.90	55.00	60,391.88	28,114.49	2,111.56	45.95	30,180.11	30,211.77

Schedule "B"

EARMARKED ACCOUNTS (invested per contra)

Schedule "B (i)": Fund received from The Sulphur Institute (TSI), Washington for TSI Awards

(Amount in INR)

Previous Year	Particulars	Amount in '000
510.57	Balance as per last year's Balance Sheet	522.79
12.22	Add: Interest received / accrued on deposits during the year	14.66
522.79	Sub total	537.45
-	Less: Awards	
522.79	Balance	537.45

Schedule "B (ii)": Fund received from International Plant Nutrition Institute (IPNI) Awards

(Amount in INR)

Previous Year	Particulars	Amount in '000
207.64	Balance as per last year's Balance Sheet	213.89
6.25	Add: Interest received / accrued on deposits during the year	6.21
213.89	Sub total	220.10
	Less: Awards	-
213.89	Balance	220.10

Schedule "B (iii)": Fund received from National Fertilisers Limited (NFL), New Delhi for NFL Awards

(Amount in INR)

Previous Year	Particulars	Amount in '000
639.44	Balance as per last year's Balance Sheet	670.32
30.88	Add: Interest received / accrued on deposits during the year	29.33
670.32	Sub total	699.65
-	Less: Awards	-
670.32	Balance	699.65

Schedule "B (iv)": Funds received from Golden Jubilee Endowment Fund (GJEF)

(Amount in INR)

Previous Year	Particulars	Amount in '000
5,459.27	Balance as per last year's Balance Sheet	5,743.23
-	Funds transferred from FAI during year	-
283.96	Add: Interest received / accrued on deposits during the year	295.79
5,743.23	Sub total	6,039.02
-	Less: Awards	-
5,743.23	Balance	6,039.02

Schedule - C (i)

Agriculture Promotional Projects as at March 31, 2022

(Amount in INR)

Previous year	Particulars	Current year
40,590.04	Balance as per last year's Balance Sheet	39,870.04
	Add:	
	Funds received during the year	
40,590.04	Total (A)	39,870.04
	Less:	
	Awards	
-	National Conference on Ornamental Horticulture to Rural Economy	
720.00	Honorarium	720.00
-	Miscellaneous Expenses	
-	Project on doubling the income of Farmers	
720.00	Total (B)	720.00
39,870.04	Balance (A-B)	39,150.04

Schedule "D"

APPLICATION OF FUNDS RECEIVED

D(i) Schedule - The Sulphur Institute (TSI), Washington for TSI Awards

(Amount in '000)

Previous Year	Particulars	Current Year
-	FDs	
502.25	Bank Bal	516.91
-	Int accd	
20.54	TDS	20.54
522.79	Total	537.45

D(ii) - International Plant Nutrition Institute (IPNI) Awards

(Amount in '000)

Previous Year	Particulars	Current Year
-	FDs	
211.75	Bank Bal	217.96
-	Int accd	
2.14	TDS	2.14
213.89	Total	220.10

D(iii) - National Fertilisers Limited (NFL), New Delhi for NFL Awards

(Amount in '000)

Previous Year	Particulars	Current Year
368.00	FDs	368.00
297.79	Bank Bal	327.66
3.71	Int accd	3.17
0.82	TDS	0.82
670.32	Total	699.65

D(iv) - Golden Jubilee Endowment Fund (GJEF)

(Amount in '000)

Previous Year	Particulars	Current Year
5,073.00	FDs	5,073.00
492.42	Bank Bal	880.67
150.90	Int accd	58.44
26.91	TDS	26.91
5,743.23	Total	6,039.02

Schedule - E

RECEIPTS AND EXPENSES AGAINST THE TRAINING COURSES

For Technical, Marketing Personnel Industry etc. held during the year ended on 31 March 2022

(Amount in '000)

Previous year	Particulars	Current Year
2,964.00	Training Fees Received (A)	6,508.25
	Less: Expenses Incurred	
490.00	Boarding & Lodging	1,613.35
18.00	Travel & conveyance Expenses	83.96
27.00	Honorarium	82.50
-	Photographs	
117.00	Miscellaneous Expenses	411.68
652.00	Total (B)	2,191.49
2,312.00	Net Receipt [(A)-(B)]	4,316.76

Summary of Significant Accounting Policies and Notes to Accounts

Summary of Significant Accounting Policies

1 Significant accounting policies:

i) Accounting convention

The financial statements are prepared under the historical cost convention in accordance with applicable mandatory accounting standards and relevant presentational requirements of the Companies Act, 2013 following accrual basis of accounting.

ii) Fixed assets and depreciation

- Fixed assets are stated at cost less accumulated depreciation. The cost of acquisition is inclusive of freight, taxes and other incidental expenses till ready to use.
- Depreciation is provided using the Straight-Line Method as per the useful lives of the assets prescribed under schedule II of the Companies Act, 2013. The useful life for depreciation used are as follows:

Asset	Life as per Schedule II
Building	60 years
Air conditioner & Generator Sets	15 years
Furniture & Fixture	10 years
Office Equipment	5 years
Vehicle – Car	6 years
Vehicle - Motor Cycle	10 years
Computer	3 years
Server	6 years

- In case of cost of improvements to leasehold premises, cost is amortized over the period of lease (including renewal options) of the premises or the useful life of leasehold improvements, whichever is lower.
- No write off is made in respect of leasehold land as the lease is a long lease.
- Assets having value of INR 5,000 or less, individually, have been fully depreciated in the year of purchase.

iii) Retirement Benefits

- The Association has various schemes of retirement benefits such as provident fund, gratuity, leave encashment and superannuation fund. The provident fund, gratuity and superannuation fund are administered by trustees of an independently constituted Trusts recognized by the Income-tax authorities. The Group Leave Encashment - cum - Life Assurance Scheme (Cash Accumulation) Scheme is administered by FAI through LIC. Contributions to the gratuity fund, superannuation fund and Group Leave Encashment Scheme are made in accordance with the terms of the scheme of the Life Insurance Corporation of India. Periodic Contributions to the funds are charged against revenue each year.
- Liability for leave encashment benefit payable to employees on retirement is provided on an arithmetical calculated on the basis of accumulated un-availed leaves standing to the credit of employees at the year-end by taking the last drawn salary into account.

iv) Foreign currency transactions

Foreign currency transactions are accounted for at exchange rates prevailing on the date the transaction takes place. The transactions in foreign currencies which are not settled on the date of balance sheet are translated into rupees taken into account the exchange rate prevailing on the date of Balance Sheet. Any income or expense on account of exchange difference either on settlement or transaction is recognized in the income and expenditure account except that the variation in the long-term liabilities incurred for acquisition of Fixed Assets up to 31 March 2004 is adjusted to the cost of Fixed Assets. In case such liabilities are incurred and utilized for acquisition of Fixed Assets after 31 March 2004, the gain or loss on settlement date or on conversion at the rates prevailing at the year-end is charged to the income and expenditure account.

- Income from membership fees is accounted for on an accrual basis except for membership dues from technical and professional associate members, which are accounted for on a cash basis.
- Subscriptions received for journals and periodicals are accounted for on a cash basis.
- Training fees received from FAI Training Courses for technical / marketing personnel, industry agronomist etc. are shown net of expenses incurred in conducting such training courses.
- Interest on Fixed Deposits with banks and companies has been calculated on day basis based on the calculation done by banks.
- Cost of publications is charges off in the year, in which such expenditure is incurred.
- Interest received and accrued on deposits held for earmarked accounts and awards and other expenditure incurred of earmarked accounts are credited / debited directly to the respective accounts.
- Funds received under Agriculture Promotion Project (APP) and Agriculture Promotion Project- Public Relation and expenditure incurred under the projects and credited / debited directly to the respective projects.

		(Amount in INR)	
		Current Year	Previous Year
9	Honorarium to faculty members and ex-gratia payments to staff have been debited to other heads such as FAI Training courses, Seminars etc.	9,977,193	6,190,257
10	Managerial remuneration of the Director General under section 197 of the Companies Act 2013. does not include incremental liabilities for gratuity and leave encashment, if any.	12,668,189	9,621,268
11	Auditors' Remuneration (excluding Goods & Service Tax)		
	Statutory Audit Fee	110,000	110,000
	GST Audit Fees (2018-19 and 2019-20)	0	80,000
	GST Annual Return Fees	50,000	0
	PF Trust Audit Fees	12,000	10,000
	Management Services	0	0
12	Expenditure in foreign currency on account of:		
	a) Subscription to foreign journals and books	0	0
	b) Membership of foreign organizations (cash basis)	13,288	15,651
	c) Foreign Travel	0	0
13	Earnings in foreign exchange (cash basis) for sale of publications, advertising, membership fees etc.	8,101,429	8,686,173

- 14 The Association recognizes provision for bad and doubtful debt on specific basis as deemed appropriate depending on ageing of the receivable and information available of the related debtor.
- 15 No impairment losses are considered to have occurred in carrying value of assets and hence are considered to realize their carrying value in ordinary course of business.
- 16 Inventory of unused paper supplies are valued at cost based on weighted average method.
- 17 The Association, vide Order dated 22 June 1994 of Assistant Director of Income Tax has been registered under section 12A(a) of the Income Tax Act, 1961 with effect from 01 April 1993, and has been claiming exemption under sections 11 and 12 of the Income Tax Act, 1961. As such no provision for income tax been considered. Also the exemption has been renewed for 5 years vide order dated 23 December 2021 of Commissioner on Income Tax from AY 2022-23 to AY 2026-27.
- 18 Disclosures in respect of the Accounting Standard 19 titled "Leases", issued by the Institute of Chartered Accountants of India for operating leases commencing on or after 01 April 2001:
The Association has entered into operating lease arrangements for leasing the second floor and Ground Floor of its office premises.
- (a) Some of the significant terms and conditions of the arrangements are as under:
- Agreement may generally be terminated by the lessees by serving two months' notice.
 - The lease is generally renewable on the expiry of the lease period subject to mutual agreement.
- (b) The gross carrying amount, the depreciation for the year and the accumulated depreciation as at 31 March 2022 are as under:

(Amount in INR)			
Description of the Asset	Gross Carrying Amount	Depreciation for the Year	Accumulated Depreciation
Building	5,550,846	91,612	1,955,390

19 Litigation in favour of the Association

FAI's income tax return for the financial year 2017-18 corresponding to the Assessment year 2018-19 showing NIL. Income was selected for scrutiny and e-proceedings were carried out by the Income Tax Department. After the assessment, the Assessment Order dated 02/03/2021 was issued by the Department accepting NIL income. However, Department raised demand of Income tax payment of INR 5,50,68,075/- due to wrong computation of income by not taking in to account the deductible amount of INR 12,70,68,577/-. The case was represented to the Department for rectification of the computation. The rectification was carried by the Department vide Rectification Order dated 17th September, 2021 by Dy Commissioner of Income Tax and department issued the refund after rectification the error.

20 Contingent Liabilities

Asst. Commissioner of Income Tax (Exemption), New Delhi has raised an income tax demand of INR 1,31,53,950/- (including interest) in assessment under section 143(3) for assessment year 2015-16 corresponding to Financial year 2014-15. The Association has filed an appeal before Commissioner of Income Tax (Appeal) on 5.1.2018. The case is still pending with CIT.

- 21 Previous year's figures have been regrouped/recast, wherever necessary.

As per Audit Report of even date attached

Rajeev Lochan, Partner
Membership Number: 086742
Lochan & Co

Chartered Accountants
Firm Registration Number: 008019N

UDIN: 22086742APCKOO5122

Place: New Delhi

Date: 21.07.2022

-Sd- D. Ramakrishnan Secretary & Treasurer	-Sd- S. Nand Additional Director General	-Sd- Rakesh Kapur Director & Past Chairman	-Sd- K.S. Raju Chairman
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SENIOR STAFF OF FAI

CENTRAL OFFICE

Shital S. Bhende	Senior Agronomist
Rama Gupta	Senior Officer (Accounts)
Anita Kumari	Senior Officer (Publicity)
Chanchal Soni	Senior Statistical Officer
Lalit Kumar	Senior Agronomist
Yatika Gupta	Economist
Celine George	Officer (Secretarial)
Ajay Kumar	Officer
Prakash Kumar	Junior Officer (Accounts)
Ajendra Bhargav	Junior Officer (IT)

REGIONAL OFFICES

WEST

S.P. Shete	Regional Executive
Shilpa K.Chirke	Officer

SOUTH

S.Venkatesan	Senior Statistical Officer
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NORTH

Harinder Kaushik	Officer
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FAI ANNUAL SEMINAR 2021

CHALLENGES IN FERTILIZER AND AGRICULTURE

1st-3rd DECEMBER, 2021

India basically remains an agrarian country despite the industrialization post-independence. Agriculture sector is important not only for ensuring food security of the country but also for employment and income generation. Currently the agriculture sector accounts for nearly 20 per cent of India's GDP and is a primary source of livelihood for over 58 per cent of country's population. Post-independent India made remarkable progress on agricultural front. Green Revolution, was followed by blue, white, yellow and turned to rainbow revolution. India took a big leap forward from being a nation living on 'ship to mouth' in 1960s to become net food grain exporter. Today, India is the largest exporter of rice and second largest producer of both wheat and rice, after China. The country is now self-sufficient in food production except for oilseeds and pulses.

Despite this impressive progress, the country still faces a daunting task of meeting future food demands and providing nutrition security to 19 per cent of the global population and providing feed and fodder to 11 per cent of the world's livestock population on 2.3 per cent of the land and only 4 per cent of the fresh water resources. To feed 1.38 billion mouths, India produced 308 million tonnes (MT) food grains and 330 MT of horticulture produce in 2020-21. Estimated requirements for 2050 are 405 MT food grains, 39 MT oilseeds, and 646 MT horticulture produce for nourishing 1.69 billion people. Country's annual growth rate in agriculture will have to be 4 per cent to meet the future demands of food, feed and fodder. Notwithstanding huge stocks of rice and wheat, the problem of hunger and malnutrition still exists to some extent. Therefore, there is need to achieve 8-9 per cent growth rate in gross domestic product (GDP) to reduce poverty.

CHALLENGES

Continuous efforts have been made to develop improved farm production practices and technologies. However, Indian agriculture still continues to suffer from the low crop productivity and farm income. Government faces a daunting task of inspiring young people to stay in rural areas by making agriculture a profitable enterprise. The critical issues that plague Indian agriculture are knowledge deficit and infrastructure deficit in the rural areas. Problems related to irrigation infrastructure, market infrastructure and transport infrastructure add significant cost to farmers' operations. Indian agriculture faces various other natural and man made challenges including small and fragmented land holdings; shrinking land and water resources; lack of proper marketing and storage infrastructure, low input use efficiencies and poor adoption of improved farm technology.

Declining crop response, loss of biodiversity and deterioration of soil health exacerbated by the impending climate change pose newer challenges in achieving the production targets. Poor nitrogen management has emerged as a serious concern to soil, air and ground water pollution. To stay relevant, farmers have to make smart choices to cope up with challenges of climate change, soil erosion and biodiversity loss; satisfy consumers' changing tastes and expectations; and rising demand for more food of higher quality. Farming profession has to transform itself from being a 'subsistence livelihood activity' to 'profitable business enterprise'.



K.S. RAJU
Chairman
The Fertiliser Association of India
New Delhi

Small and Fragmented Land Holdings

India is rich in natural resources particularly land, water and sunshine hours. However, the huge and ever increasing population is putting pressure on these natural resources. The average size of operational land holdings is becoming small and small with the continuous increase in population. The problem of small and fragmented holdings is more serious in densely populated and intensively cultivated states of Kerala, West Bengal, Bihar and eastern U.P. where average size of holding is less than one hectare.

Soil Health Degradation

With excessive exploitation of native soil reserves, many of the production systems have been facing progressive decline in the total and partial factor productivity. Poor soil quality with multiple nutrient deficiencies has emerged as a major concern in Indian agriculture. Stabilizing or enhancing soil organic matter (SOM) is critical to minimizing risks of soil degradation and for ensuring sustainability of agriculture in these areas. Soils hold the key to crop productivity and resilience to climate vagaries in dryland agriculture in India. Considering the importance of soil health for ensuring future food and nutritional security, Government of India started a Soil Health Card (SHC) Scheme and has been issuing the SHCs to educate the farmers about the importance of soil and usefulness of balanced nutrient application. Over the years, several location-specific technologies viz. integrated nutrient management (INM); practices involving locally available organic sources; balanced nutrition including micronutrients, site-specific nutrient management practices, and foliar spray of potassium for drought mitigation have been developed to improve soil health. Concerted and coordinated efforts by concerned stakeholders are needed to take these technologies to farmers' field.



However, these technologies will be of little use unless adopted by farmers.

Sustainable Nutrient Management

Adoption of Green Revolution, relying on growing fertilizer-responsive HYVs of cereal-cereal systems namely, rice-rice, rice-wheat, maize-wheat etc., under assured irrigation transformed India into food grain surplus country. Plant nutrition reduced hunger and malnutrition for billions of people globally in the past century. Increased access to mineral fertilizers was one of the key drivers of rapid increase in crop yields that fed the world. However, the imbalanced and inefficient use of nutrients has emerged as a serious constraint to agricultural sustainability.

Despite abundance in atmosphere (78 per cent), nitrogen is the most limiting nutrient in soils. Only one third (30-35 per cent) of applied nitrogen is taken by crop and rest leaks to environment leading to air and water pollution and ozone depletion. A lot of R & D efforts have been made by national and international organisations to increase nitrogen use efficiency. Global initiatives have been taken to address the issue of sustainable nitrogen management (SNM). India is the leading partner in the global initiatives of SNM. A number of policy initiatives have been taken viz., shift from urea to 100 per cent neem coated urea, reducing weight of urea bag from 50 to 45 kg and providing soil health cards to all farmers of the country. These initiatives have not helped much as the real problem has not been addressed.

LOW INPUT USE EFFICIENCY NOT ONLY AFFECTS CROP YIELDS BUT ALSO POSES THREAT TO ENVIRONMENT. EFFICIENT USE OF AGRI-INPUTS AND PRECISION AGRICULTURE CAN BRING INCREASE IN YIELDS. IT WILL SAVE COST FOR INPUTS LIKE WATER, FERTILIZERS AND PESTICIDES.

Nitrogen consumption is highly skewed in favour of urea as urea continues to remain heavily subsidized vis-à-vis P&K fertilizers. To address the issue of sustainable nitrogen management in agriculture, there is need for correction in pricing policy which brings parity in prices of different nutrients. There is also need for more support to micronutrients.

Water Management

Water is the most important natural resource for civilization to survive. Last few decades have seen dramatic rise in demand for water in India due to variety of reasons. Agriculture is the major consumer of water accounting for 75 per cent of total water consumption. Over exploitation of ground water resource is leading to falling ground water levels and deteriorating ground water quality. Climate change impact has taken its toll on water resources. Scientific management of water is vital to India's agricultural growth and ecosystem sustainability. Rain water conservation / water harvesting using appropriate techniques and efficient utilisation of harvested rain water has been considered as the key water management strategy. In irrigated agro-ecosystem, improvement of canal irrigation system, introduction of pressurized irrigation system, drip fertigation for better water and nutrient use efficiency, use of sensors for precise application of water in field are some of options available to increase water use efficiency.

Seed Availability

Seed is a critical and basic input for attaining higher crop yields and sustained growth in production. Despite the massive R&D efforts in development in seed sector, good quality seeds still remain out of the reach of majority of the farmers. Climate smart agriculture is the need of the hour. Concerted efforts are required for mitigation and adaptation to reduce the vulnerability of Indian agriculture to the adverse impacts of climate change,

making it more climate smart to ensure food, nutrition and livelihood security in the short- and long-term. Strategies such as cultivars tolerant to heat and moisture stresses, modifying crop management practices, improving water management, adopting new farm techniques (conservation agriculture, improving pest management), better weather forecasts and crop insurance can minimize the risks of climate change. To tackle the impact of climate variability and climate change on agriculture, Government of India initiated series of policy initiatives and programmes. Basket of region / location specific technologies have been standardized and upscaled for making Indian agriculture climate smart. However, the final success will depend on how climate smart are the farmers engaged in it. Mitigation of greenhouse gas emission from agriculture can be achieved by changing land-use management and enhancing input-use efficiency.

Crop Residue Management

About 500 MT of crop residues are generated annually in the country. Among different crops, cereals generate maximum residues, followed by fibres, oilseeds, pulses and sugarcane. Crop residue burning has emerged as a health menace in paddy growing areas. A significant part of cereal residues particularly paddy is burnt every year by farmers for timely sowing of next crop. It may be mentioned here that burning of 1 tonne of paddy straw leads to a loss of 5.5 kg N and 1.2 kg S, besides significant emissions of carbon dioxide, carbon monoxide and particulate matter to the atmosphere, contributing to global warming. Worst impact of the paddy residue burning is on North-West India in general, and Delhi and National Capital Region in particular. Challenge is the development of holistic strategy for blending and gainful utilization of surplus residues both as fertilizer and fuel. To start with it will require financial support from Central / State Government for collection of crop residue and converting it to useful products at local level. Various enterprises will have to be promoted for collection, composting and pelletization (fuel) and transportation. Later, it can become self-sustaining or work with minimal support from environment budget of State/Central Governments.

Pesticides Management

Environment and food safety issues like concern for chemical residues in food and soil, water and environmental pollution by pesticides is receiving greater attention. Although the average use of pesticides in our country is low, it must be ensured that farmers use the right kind of pesticides in the right way. Integrated Pest Management (IPM) strategy with focus on long-term prevention of pests or their damage through a combination of techniques such as biological control, habitat manipulation, modification of cultural practices and use of resistant varieties offers a sustainable solution.

Farm Mechanisation

The poor adoption of farm mechanization among farmers is largely responsible for low crop yields and poor farm income. Coordinated efforts should be made to expand farm mechanization to all corners of the country. Technology particularly farm mechanization can be a game changer and people should not lose sight of cutting edge technologies that are changing the way agriculture is practiced the world over.

Climate Change

Indian agriculture is highly prone to risks due to climate change because more than half of the cultivated land in India is rainfed. Changes in climate variables such as precipitation, temperature, windiness and solar radiation are responsible for increase in heat extremes, extended heat waves and increase precipitation. Climate change induced droughts and heavy precipitation have a potential to inflict the crop damages leading to significant yield decreases in different parts of the country. Climate smart agriculture is the need of the hour. Concerted efforts are required for mitigation and adaptation to reduce the vulnerability of Indian agriculture to the adverse impacts of climate change,

making it more climate smart to ensure food, nutrition and livelihood security in the short- and long-term. Strategies such as cultivars tolerant to heat and moisture stresses, modifying crop management practices, improving water management, adopting new farm techniques (conservation agriculture, improving pest management), better weather forecasts and crop insurance can minimize the risks of climate change. To tackle the impact of climate variability and climate change on agriculture, Government of India initiated series of policy initiatives and programmes. Basket of region / location specific technologies have been standardized and upscaled for making Indian agriculture climate smart. However, the final success will depend on how climate smart are the farmers engaged in it. Mitigation of greenhouse gas emission from agriculture can be achieved by changing land-use management and enhancing input-use efficiency.

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Way Forward

Agriculture in India continues to battle the challenge of low productivity and farmers' income. Bringing efficiencies in farm practices has become all the more essential to feed the growing population, making farming economically viable and environmentally sustainable. The use efficiency of two most critical inputs namely fertilizer and irrigation water is invariably low. Low input use efficiency not only affects crop yields but also poses threat to environment. Efficient use of agri-inputs and precision agriculture can bring increase in yields. It will save cost for inputs like water, fertilizers and pesticides.

Important hi-tech developments include protected cultivation under green house, hydroponics, aeroponics and vertical farming. It involves the use of drones, sensors, big data management, environmental control and farm management software. Hi-tech agriculture requires precise nutrient management and new innovative products. Fertilizer industry is making efforts for development and use of innovative fertilizers having better nutrient use efficiency. Recent development of Nano Urea (liquid) fertilizer has given hope for improvement in nitrogen use efficiency compared to urea. Government should provide suitable policy environment and if needed, financial support for use of high efficiency products.





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