



# INDIAN FERTILIZERS STATISTICS

1975-76

**ECONOMICS & STATISTICS DIVISION  
MINISTRY OF CHEMICALS AND FERTILIZERS  
GOVERNMENT OF INDIA  
NEW DELHI**



## P R E F A C E

The Economics & Statistics Division of the erstwhile Ministry of Petroleum & Chemicals had been bringing out an annual publication entitled 'Indian Petroleum & Chemicals Statistics' which contained basic economic and statistical data, covering various aspects of petroleum, fertilizer, drugs & pharmaceuticals and other chemical industries. The growing importance of these industries and need for a wider coverage to meet the requirements of planning and administration necessitated the division of the afore-mentioned publication in 1975 into three separate publications, viz. 'Indian Petroleum & Petrochemicals Statistics', 'Indian Fertilizers Statistics' and 'Indian Chemicals & Pharmaceuticals Statistics'. With the bifurcation of the Ministry of Petroleum & Chemicals this year into the Ministry of Petroleum and Ministry of Chemicals & Fertilizers, the task of bringing out 'Indian Fertilizers Statistics' was taken up by the staff and officers of Economics & Statistics Division assigned to the Ministry of Chemicals & Fertilizers.

The current issue of 'Indian Fertilizers Statistics' is divided into number of sections, starting from chronology of important events in fertilizer industry in India which is followed by Indian fertilizer statistics at a glance, giving year-wise production, consumption and imports in a single table. These aspects have later been covered in detail in independent sections under the captions capacity, production, consumption and imports. Thereafter, with a view to provide comprehensive picture of Indian fertilizer industry, separate sections pertaining to fertilizer prices, plan & financial statistics, projections and miscellaneous (raw-materials & man-power etc.) have been added. In the last section, world fertilizer statistics have been provided so as to facilitate international comparisons with the situation obtaining in India.

It is hoped that data contained in this publication would be of interest and value not only to various Ministries of the Government and the management of various fertilizer manufacturing units, but also to the Universities, research organisations and research scholars etc. We shall be grateful to have suggestions for improvement in general or for rectification of any error or omission in the data presented.

Our sincere thanks are due to all those associated with the fertilizer industry who have promptly responded to our request for data and information. The staff and officers of E&S Division have done valuable work in collection, tabulation and editing of the data brought out in this publication. In particular, I would like to express my appreciation for the efforts put in by Shri Y.D.Sharma.

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CORRIGENDUM

I. CHRONOLOGY OF SOME IMPORTANT EVENTS IN THE FERTILIZER INDUSTRY

(A) PUBLIC SECTOR UNDERTAKINGS

1. SINDRI FERTILIZER PLANT

(Fertilizer Corporation of India)

- 1945: In 1945, a fertilizer unit was thought of and it was decided to locate one at Sindri.
- 1946: On 8th February, the contract for engineering and design of the unit was signed by the Government of India with Messrs Chemical Construction Corporation of U.S.A.
- 1947: In June, the contract for the construction of the unit was signed with Messrs Power Gas Corporation Ltd.
- 1948: The construction of the unit was started.
- 1950: The construction of semi-water gas plant, Ammonia plant, Sulphate plant and a Power House, with installed capacity to produce 3,55,000 tonnes of Ammonium Sulphate and 80MW of Power was completed.
- 1951: In October, the first crystals of Ammonium Sulphate was produced.
- 1953: In December in the second stage, an agreement was signed with M/s. Carl Still of Germany to erect a Coke Oven Battery.
- 1954: The Coke Oven Battery was completed.
- 1955: A contract was concluded with Messrs Montecatini of Italy to use Coke Oven Gas for manufacturing Fertilizers.
- 1958: The Gas reformation plant, the Double Salt Plant and the Urea Plant were completed. Under a contract concluded with M/s. Power Buffryn Copee Ltd; of England, five lean gas producers were erected and commissioned.
- 1959: Commercial production in above plants began.
- 1966: In September, two additional units of lean gas producers, erected by M/s. Hoorick Koppers of Germany, were commissioned.
- 1967: In April, a contract was entered into with M/s. Hitachi of Japan to erect a small Naphtha Reformer Plant.
- 1969: In February, erection of the Naphtha Reformer Plant was completed.
- 1970: The Government of India approved the Sindri Rationalisation Scheme.

1971: In January, construction work of the Ammonium Nitrate plant was started.

In December, the Ammonium Nitrate plant commissioning tests were started to produce 30 tonnes explosive grades prilled Ammonium Nitrate per day.

In December, the construction work under Sindri Rationalisation scheme was started.

1972: In January, Civil work of Rationalisation project started.

In March, production of Ammonium Nitrate plant started.

1973: The installation of the Tertiary scheme in the Sulphate plant helped in recovering about 2-3% Ammonium Sulphate from chalk.

A new method to produce 40 tonnes Ammonia per day was introduced by injecting Naphtha directly in one of the cracking units of Gas reforming plant which was first unit of this anywhere in world, saving 7.0 crores rupees annually w.r.t. old method.

The replacement of creosote oil, solar oil for scrubbing coke oven gas helped in conserving Rs.15 lakhs monthly.

1974: The injection of Naphtha into cracking section alongwith Hydro carbon fraction was raised to 1500 kg/hr as against of earlier feed rate of 1000 kg/hr (maximum).

1975: Pollution control cell has been started to combat water and air pollution of the plant. Rotary drum, 9' in diameter and 40' in length has been fabricated and installed in sulphate plant.

(a) Sindri - Rationalization project

1973: In the rationalisation project after completion of designing and engineering work, the installation of the plant started in April 1973. The work on mechanical erection began in September 1973.

1974: In November, mechanical erection was completed by 60% and instrument & electrical erection was started.

During the year, parallel gyratory crusher for FPC plant was completed and commissioned.

Erection of wagon trippler was completed and commissioned.

1975: In July, one stream of sulphuric acid erection completed and testing of equipments started.

One Ist August, trial run of triple superphosphate was started.

On December 13th, Ist ball mill in rock grinding section was started.

(b) Sindri Modernisation project

1974: On 9th July, contract agreement with Technomont for technical collaboration for urea plant was signed.

On 8th July, contract agreement with UHDE for technical collaboration for Ammonia plant was signed.

On 29th October, Project commissioned.

On 26th December, work on site filling and gradind started.

1975: New Naphtha Installation erected and commissioned. Effluent disposal scheme for the project was finalized and execution started, orders for all equipments placed.

2. NANGAL FERTILIZER PLANT

(Fertilizer Corporation of India)

1954: In October, a Fertilizer production Committee was appointed by the Government of India to investigate the potentialities of producing fertilizer at Nangal in Punjab and other places in India.

1955: In January, a technical feasibility report was submitted by the Fertilizer production Committee.

In April, the Government decided to install a Fertilizer-cum-Heavy Water Plant at Nangal with a capacity of 70,000 tonnes of Nitrogen and 5 tonnes of Heavy Water. The Nitrozen Capacity was later revised to 80,000 tonnes. Similarly, the Heavy water capacity was revised to 14.5 tonnes.

An expert committee to appoint technical consultants was also appointed during April.

In November-December, Project Reports were asked for from the following firms, M/s. Vitro Engineering Corporation, New York, M/s. Saint Gobin, France and M/s. Constain Jchn Brown, U.K.

1956: On 17th February, a Company under the name Nangal Fertilizers and Chemicals Pvt. Ltd., was incorporated. The control of this company was retained by the Government.

On 20th April, the control of the above company was handed over to the Company by the Government. On 16th November, M/s.Vitro Engineering Division of New York (USA) were appointed as technical experts.

1959: In July, the name of the company was changed to Hindustan Chemicals & Fertilizers Ltd., and work of setting up of plants at Trombay, Bombay and Assam was entrusted to the Company.

1961: On 1st January, the name of the Company was again changed to Fertilizer Corporation of India Ltd., and all the public sector fertilizer factories then existing, came under the Fertilizer Corporation of India Ltd.

On 22nd February, the plant was commissioned.

In April, the production of CAN was stabilised.

1962: On 9th August, Heavy Water production started.

1967: In August, changeover to 25% N<sub>2</sub> from 20.5% Nitrogen CAN took place.

In December, Nangal expansion project was thought out.

1971: On 28th April, the feasibility study report for the expansion project was received.

1972: In February, NPK trials were conducted successfully.

In October, final project estimates for expansion approved by the Board.

1973: On 28th February, M/s. Technimont's (of Italy) contract for Urea plant of Nangal Expansion project has become effective.

On 20th March, M/s. Uhde's contract for ammonia plant has become effective.

On 28th April, formal approval for the Nangal expansion project has been granted by the Government of India.

On 11th May, development credit Agreement 357-IN for 58 million between Government of India and IDA has become effective.

On 17th November, Nangal unit was awarded National Safety Award by the President of India for the longest accident free period of 2.45 million man hours.

1974: On 4th March, main civil works contractors M/s. Shah - Construction Co. started the civil work.

On 12th May, licence agreement with M/s. Shell Research Ltd. for partial oxidation process at Nangal expansion was signed which became effective on 3.10.1974.

On 27th May, contract for licence and technical collaboration agreement for the Reclisol process with M/s. Lurgi became effective.

On 8th September, erection of steam generation plant started.

During the year, Nangal unit has been awarded a certificate of commendations by the M/O Labour for its Noteworthy safety performance.

1975: Unit was awarded an "Award of honour" by National Safety Council (India) Bombay. This is the 5th Award of honour.

Direct application of Anhydrous Ammonia to soil was experimented.

A joint Management Council having equal number of representatives from workers' side with G.M. as Chairman was set-up.

### 3. TROMBAY FERTILIZER PLANT (Fertilizer Corporation of India)

1959: On 19th January, the Nagaraja Rao Committee submitted a technical feasibility report.

In April, 'go-ahead' signal for construction of the factory was given by the Government of India to Fertilizer Corporation of India.

In June, acquisition of land was started.

1960: On 16th March, an industrial licence was issued.

1961: On 22nd March, the contracts for Ammonia, Urea and Nitric Acid plants were awarded to M/s. Chemico.

1962: On 8th May, the contract for Nitrophosphate plant was awarded.

1963: On 14th March, the contract of sulphuric acid plant was awarded to M/s. Chemico.

1964: On 20th June, industrial licence for Methanol plant was issued.

On 12th February, the contract for Methanol Plant was awarded to M/s. Girdler Corporation which was subsequently revised on 9th July.

1965: In June, erection of Nitrophosphate plant was completed.

Ammonia and Urea plants were completed respectively in October and November.

In December, the erection of Methanol plant was completed.

On the 6th November, commercial production by the Fertilizer plants was started.

1966: On 31st. January, sulphuric acid was first produced. On the 10th November, Commercial production by the Methanol plant was started.

1968: On 15th October, the production of Ammonium Bicarbonate was started.

- 1970: On 10th March, final Feasibility Report for the expansion of Trombay unit was submitted.
- 1971: From 21st October, the production of Carbon-Black and concentrated Nitric Acid was started.
- 1972: On 3rd September, Sodium Nitrate plant was commissioned.  
On 29th December, Sodium Nitrite plant started regular production.
- 1973: In March, record production of 1035 tonnes of Suphala on a single day was achieved. During February, monthly record profit of Rs.8.15 crores was obtained.  
In November, record despatch of Suphala 21,495 tonnes.  
In December, record production of Ammonia was 9,362 tonnes.  
In December, Methanol production from supplementary gassification scheme obtained and ammonia terminal facility completed.
- 1974: On 9th January, first technical delegation from Bangla Desh led by Dr. Md. Shamsul Haq visited this unit.  
On 13th February, Malaysian delegation headed by Mr. Tanhaji Mahayuddin paid a visit to this unit.  
On 27th April, second tower of concentrated Nitric Acid plant was commissioned.  
In May, Methylamines trial run was started.  
On 19th June, visit of H.H. Sheikh Rashid Bin Saeed Al-Maktoum, Vice President of the United Arab Emirates.  
On 21st June, record production of Methanol for the month i.e. 3241 MT.  
On 21st October, methylamine plant commissioned.  
On 21st December, Methylamine plant started commercial production.
- 1975: Phosphoric acid plant was commissioned in January.  
In July, all time record production of Sodium Nitrate of 204 MT was achieved.  
In August, ANP-debottlenecking project was completed and commissioned.  
In September, all time record monthly production of Sulphuric Acid of 4905 MT was achieved.  
On 10th September, daily production of Suphala (15:15:15) of 1105 MT was achieved.

In October, production of new product Ammonium Phosphate-Sulphate-Nitrate started in debottlenecking plant.

In December, all time monthly record production of total nitrogen of 8,202 MT and 9,220 MT of urea was achieved.

#### 4. GORAKHPUR FERTILIZER PLANT

(Fertilizer Corporation of India)

- 1960: On 19th August, a technical feasibility report was submitted.
- 1961: On the 27th of October, an industrial licence was issued.
- 1963: On the 21st of August, a contract for the main plant was awarded to M/s. Toyo Engineering Corp., Tokyo.
- 1964: During the years 1964, 1965, 1966 & 1967, contracts were issued to various firms to start work.
- 1967:
- 1968: In Jan/Feb., the erection of Urea plant was completed.

In March, the erection of Silo was completed.

In March/September, the erection of Ammonia plant was commissioned.

In January/April, the Ammonia plant was commissioned.

In February/April, the Ammonia plant was commissioned.

On 26th January, production of Ammonia started.

On 2nd February production of Urea started.

On 1st January, the factory went into commercial production.

- 1969: In July, Gorakhpur expansion project was planned.

- 1971: In January, feasibility study report was submitted.

- 1972: On 5th April, agreement with World Bank for Gorakhpur expansion commenced.

- 1973: On 3rd January, piling works for the expansion project began.

On 21st March, laying foundations for general civil works under the expansion programme of the unit started.

On 17th April, this unit was awarded, the National Safety Award for 1972 by Government of India for highest percentage reduction in frequency rate of accidents.

On 9th June, civil works on the new Prilling tower under the expansion programme started.



1974: In February, mechanical, electrical and piping works for expansion were awarded to the contractors.

On 6th July, laying of foundations for civil works for 5 tonnes/hr mixing and Granulation plant.

On 21st December, this unit was awarded by National Safety Award for 1973 by Ministry of Labour and National Safety Council of America also awarded honour for good industrial safety records.

1975: On 18th January, all time high record of 645 tonnes of Urea production per day was achieved.

In January, all time high record production of 17,258 tonnes of Urea was achieved.

In January, Ammonia recovery absorbers in the Urea plant were commissioned

In February, direct application of Anhydrous Ammonia was started for the first time.

On 22nd March, 132 KV sub-station for expansion was commissioned.

In July, Air separation unit of Ammonia plant expansion was commissioned.

In July, Joint Management Council consisting of 10 representatives of workmen and equal number of representatives of management with G.M. as Chairman was set-up.

In August, mechanical erection of Rs.75 NPK plant was inaugurated with the daily production capacity of 120 tonnes.

In August, Argon recovery unit in the Air separation plant (expansion) was commissioned and first lot of Argon cylinders was despatched for sale.

On 28th October, Ammonia production started from the new synthesis unit of Ammonia plant (expansion).

On 15th December, Urea plant of Gorakhpur expansion project was inaugurated.

On 27th December, Urea prilling from expansion prilling tower was started.

5. NAMRUP FERTILIZER PLANT  
(Fertilizer Corporation of India)

1959: In May/June, Kane Committee visited and a detailed technical feasibility report on fertilizer factory at Namrup was submitted.

1960: In May, approval was given by the Government of India.

1962: In June, Industrial Licence was issued.

In August, contract for supply of equipment was awarded to M/s. Chemico.

In October, land was acquired.

On 27th October, agreement with M/s. Chemico was signed

1963: On 10th August, M/s. N.B.C.C. was appointed as Civil contractors.

1968: In January, erection of Ammonia and Sulphuric Acid plants was completed.

On 2nd February, Ammonia Plant was commissioned.

On 20th May, Sulphuric Acid plant was commissioned and the first production started.

In July, the erection of Ammonium Sulphate plant was completed.

In August, the erection of Urea plant was completed.

On 15th August, first production of Ammonia started.

In August, Ammonium sulphate plant was commissioned.

On 31st August, Ammonium Sulphate was first produced.

In September, Urea plant was commissioned and first production of Urea started.

1969: On 1st January, the factory started commercial production. In July, a World Bank Team visited Namrup and suggested Debottlenecking & Optimisation Scheme for achieving higher production on 20.11.1969.

1970: Feasibility Report on Optimisation & Debottlenecking Scheme as prepared by M/s. P&D, Sind was submitted to the Govt. of India.

1971: On 23rd January, the Government of India approved the Optimisation Scheme.

1973: In January, the process water pump house of expansion was commissioned.

In March, the boiler feed water treatment of expansion was commissioned in the first week.

In April, the process water plant of expansion was commissioned in the last week.

1974: In November, the completion of the third sulphur melting pit was over and taken in line.

In December, record nitrogen production of 4,298 tonnes was achieved which was the highest production in a single month.

1975: In January, all time record production of Urea (5,379 MT) was achieved.

In March, all time record production of Ammonium Sulphate (9,146 MT) and maximum production of Sulphuric Acid i.e. 7,370 MT was achieved.

In August, steam headers of both expansion and the existing unit were interconnected.

In November, the highest production of 4,322 tonnes of Nitrogen was achieved.

6. NAMRUP EXPANSION FERTILIZER PROJECT  
(Fertilizer Corporation of India)

1966: On 15th October, technical feasibility report was submitted.

1967: On 31st January, the Government approved the scheme.

1968: In March, land for factory was acquired.

On 10th March, contract for supply of foreign components of Ammonia & Urea Plants was awarded to M/s. Montecatini Edison, Italy.

1969: On 6th August, Industrial Licence was issued.

During the years 1968, 1969 and 1970, contracts were issued to various firms to start work.

1970: In December, mechanical equipment erection was started.

1971: In May, electrical erection of plant lightening was started.

1972: In May, overhead yard piping erection was started.

In August, instrument erection was started.

1974: In December, all the pumps in synthesis section of Urea plant were commissioned and given 24 hrs. continuous trial run and Urea solution pump in prilling section were given 8 hrs. continuous run.

1975: During January to November, various equipments of the plant were commissioned and tests were carried on successfully.

On 10th November, commissioning of Ammonia plant was started with lighting of primary reformer for reduction of catalysts in primary reformer.

On 22nd November, secondary reformer and H.T. converter catalyst reduction was completed.

In December, synthesis mixture gas was produced for the first time. Urea plant CO2 compressor CA-La was run for 7 days with CO2 upto 100% load.

## 7. DURGAPUR FERTILIZER PLANT

(Fertilizer Corporation of India)

- 1963: In November, technical feasibility report was submitted.
- 1964: In July, the Government approved the scheme.
- 1966: On 15th December, contract for Urea Plant was awarded to M/s. Montecatini and for Ammonia Plant the contract was awarded to M/s. Ansaldo.
- 1967: On 29th August, contract for steam generation plant was awarded to M/s. B.H.F.L., Trichi.
- 1969: In June, construction of the Main Plant and Equipment was started.
- 1971: On 18th August, Ammonia cracking plant was commissioned.  
On 4th September, Inert gas generator plant was commissioned.
- 1972: On 12th April, Reformer was first lighted up.  
On 25th August, Naphtha was charged to the primary reformer for the first time.
- 1973: On 10th February, the Japanese boiler feed water pump(KSB, Torishima) was commissioned.  
On 30th March, synthesis gas compressor was commissioned.  
On 5th May, synthesis catalyst reduction started.  
On 5th October, Ammonia production commenced  
On 12th October, production of Urea began.  
On 29th December, despatch of Urea first started.
- 1974: On 6th January, the highest production of Urea on one stream was achieved.  
On 29th January, the highest production of Ammonia was achieved.  
On 16th February, the highest production of Urea on two streams was achieved.  
On 7th October, Motor-driven Torishima Boiler feed water pump was commissioned.

- 1975: In February, repaired first boiler feed water heater was reinstalled and commissioned.
- In August, Joint Management Council was constituted and started functioning.
- On 30th September, the first rake of Ammonia was received from IFFCO.
- In October, maximum production of Ammonia 6,338 tonnes and Urea 12,022 tonnes was achieved.
- In December, major portion of end to end survey scheme items ordered.

8. BARAUNI PROJECT  
(Fertilizer Corporation of India)

- 1966: In September, techno-economic feasibility report based on LSHS as feed-stock, was submitted to the Government.
- On 3rd December, a comparative evaluation of Naphtha based plant with LSHS based plant was submitted.
- 1967: On 31st January, the approval for Naphtha based fertilizer plant at Barauni was given by the Government.
- On 30th October, the contract for supply of imported machinery, raw-materials, equipments, was awarded to M/s. Motedison, Italy.
- 1968: On 22nd April, land for factory was possessed.
- 1968: During the years, 1968 and 1969 contracts were issued to  
1969: various firms to start work.
- 1971: On 29th April, mechanical erection of plant equipment and machinery was inaugurated.
- In January, the erection of prilling tower structure was started
- 1972: On 26th November, the training centre was inaugurated by Shri Bhole Paswan Shastri, Hon'ble Chief Minister of Bihar.
- On 4th December, trial run of water treatment plant was started.
- 1973: On 12th February, steam generation plant sub-station was energised.
- On 7th March, main sub-station was energised.
- On 29th August, Nitrogen erection was completed.
- 1974: On 12th May, Ammonia cracking section was commissioned.

On 13th September, Naphtha lines between FCI and IOC were commissioned.

On 29th September, first trial run for emergency turbo alternations was completed.

On 30th December, the erection of prilling tower was completed.

1975: During the year, various equipments were tried and tested.

On 29th December, primary reformer was lighted up for catalyst reduction.

#### 9. RAMAGUNDAM FERTILIZER PROJECT Fertiliser Corporation of India

1968: In September, Techno-economic feasibility report was submitted.

1969: In October, letter of intent was issued by the Government.

1970: On 3rd August, foundation stone was laid.

1971: In January, licence was issued.

During the year, various agreements for foreign collaboration loans etc. were signed.

On 31st December, the acquisition of land was completed.

1972: During the year, construction activities of Factory General earth work, SILO, Non plant buildings, prilling tower, ware - house and work-shop were commenced.

1973: In November, central mechanical work-shop and instrumentation and electrical workshop with a huge lay-out of machinery was completed and inaugurated.

In December, mechanical equipment erection contract was awarded and other piping erection contracts were finalised.

1974: Railway road siding phase-I, ware-house, training-centre, factory works, sewerage, over head tank electrical and water distributions, construction of housing phase-II were completed by November 1974. River water was brought to the factory in December 1974.

1975: In March, erection of heavy equipment was completed.

In April, Training Institute was shifted from Kothagudem to Ramagundam.

In May, Hydraulic test of first service boiler was completed.

In June, erection and testing of electrostatic were completed.

In August, work on instrument Air Compressor was completed.

10. TALCHER PROJECT  
(Fertilizer Corp. of India)

- 1968: In July, the first feasibility report was submitted.  
In December, the revised report was submitted to the Govt.
- 1969: In October, Government's clearance was given.
- 1971: On 19th January, the industrial licence was obtained from the Government.  
On 13th May, land for the factory was acquired.  
During the month of May to December, contracts were awarded for the supply of imported plant and machinery for Ammonia Synthetics, Urea and Gasification plants etc.
- 1972: In May, site contracts for Plant I Civil Works was awarded.  
In July, steam generation order placed on B.H.E.L.
- 1973: In January, work on raw-water pipeline was awarded.  
In March, phase-II factory civil works was awarded.  
In September, grading work for the main plant was completed.  
In December, work of supply and erection of 3 KM conveyor line from NCDC to the factory site was awarded.
- 1974: On 3rd March, Railway siding was opened for traffic.  
On 22nd April, the main mechanical equipment erection work was started.  
On 2nd September, electrical erection work was started.  
On 13th December, the first urea reactor was erected.  
On 17th December, the instrument erection work was started.  
On 18th December, the waste heat boiler was erected.
- 1975: From 1st January, construction incentive scheme was implemented.  
On 11th January, Ammonia reactor erected.  
During the year, erection and testing of various equipments was completed.  
On 22nd June, water treatment plant commissioning was inaugurated.  
On 19th December, steam generation Boiler No. 1 was lighted.

11. K O R B A P R O J E C T

(Fertilizer Corporation of India)

- 1968: In September, the feasibility report was received.
- 1969: On 6th October, the approval by the Secretaries Committee was given.
- 1972: In January, 'go-ahead' signal by the Government of India was received.
- 1973: On 14th April, the Prime Minister of India laid the foundation stone.

On 20th September, contract agreement was signed with M/s. Techno-expert for the air separation and liquid nitrogen wash plant.

On 1st October, jungle clearance work started at factory site.

On 24th December, contract was awarded for the construction of Boundary Wall.

- 1974: On 25th January, project was cleared by the PIB.

On 6th March, contract for the construction of 6 sheds in factory area was awarded.

On 3rd June, the project was cleared by the Central Cabinet.

On 23rd August, contract for general earth work cutting, filling and grading in the factory area was awarded.

On 15th November, contract for the construction of roads in the factory area was awarded.

On 16th November, contract for the construction of silo was awarded.

- 1975: On 14th June, Project Office shifted to Korba from Bilaspur.

On 3rd September, the first major indigenous consignment consisting of one electric motors from M/s. MGET Calcutta was received.

On 19th December, the first consignment from M/s. Techno Expert of Czechoslovakia for ASU and LNW plants was received.



## 12. HALDIA PROJECT

(Fertilizer Corpn. of India)

- 1970: In December, the feasibility report was submitted.
- 1971: During the year, five contracts with various foreign contractors for the supply of equipment, know-how, design and spares etc. were entered.
- In November, 'go-ahead' signal was given by the Govt. to the Fertilizer Corporation of India Ltd.
- In December, industrial licence was issued by the Government.
- 1972: In February, land was acquired.
- During the year, two contracts with foreign contractors were entered.
- In June, a contract with BHEL for supply-cum-erection of steam generation plant was entered.
- 1973: On 3rd March, site development was started.
- On 13th July, the first consignment of indigenous equipment was received at site.
- 1974: In January, piling and sand wicking work was started.
- On 3rd January, construction of mechanical, electrical and instrument workshop buildings was started.
- On 26th January, Railway siding was opened to traffic.
- In June, canal water was changed to river water.
- 1975: In April, construction of township quarters was started. Civil work for water treatment plant, Nitric Acid Plant and steam generation plants was started.
- In May, civil work for NPK Prilling Tower and Phosphoric Acid plant and piling work in Urea plant completed.
- In June, civil works of Urea prilling tower and Ammonia plant was started.
- In August, civil work for Urea, Ammonium Sulphate and NPK plants was completed.
- In October, erection of Boiler No.III in steam generation plant was completed.
- In November, civil work of silos was started and piling work in Soda Ash and bagging plants was completed.

13. UDYOGAMANDAL FERTILIZER PLANT  
(Fertilizer and Chemicals Travancore Ltd.)

- 1943: On 22nd September, Udyogamandal unit of FACT, their first factory in India, was incorporated.
- 1947: The erection of plant with a total capacity of 10,000 tonnes of Nitrogen was completed.
- On 26th June, 1947 production of Ammonium Sulphate was started.
- 1948: Production of Superphosphate started.
- 1955: Production of Ammonium Chloride started.
- 1960: The capacity was raised to 22,000 tonnes of Nitrogen and 14,000 tonnes of Phosphate with the completion of 1st stage expansion.
- New products namely Ammonium Phosphate, Ammonium Chloride, Superphosphate and Oleum were also introduced.
- On 15th August, this unit came under public Sector.
- 1962: The capacity was further raised to 33,000 tonnes of Nitrogen with the completion of 2nd stage expansion.
- 1965: On the 24th July, FACT Engineering & Design Organisation started work.
- 1966: On 15th October, the capacity was raised to 64,000 tonnes of Nitrogen and 33,500 tonnes of Phosphate with the completion of 3rd stage expansion.
- On 13th April, FACT Engineering works was formed.
- 1969: The fourth stage expansion was conceived on the basis of replacing the electrolytic cells and providing other ancillary facilities to raise the present capacities. This was essentially a rationalisation programme. The special feature of this expansion was the installation of an Ammonium Phosphate (20:20) grade Plant with a capacity of 150 tonnes per day.
- 1970: In January, 20:20 Amm. Phosphate production started after necessary modification on the 2nd stage 16:20 plant.
- 1971: In May, the Fourth stage Ammonia Synthesis Plant was commissioned.
- In October, commercial production from the above plant was started.
- 1972: In December, trial run of the IV stage 150 TPD Amm. Phosphate (20:20) plant started.
- 1973: In October, commercial production of 150 TPD Amm. Phosphate (20:20) plant started.

1975: In January, achieved the record monthly production of 10,840 M.T. of Amm Sulphate.

In July, an agreement was signed between FEDO to M/s.Kerala Chemicals & Proteirs Ltd. under which FEDO had to do the detailed engineering & designs for setting up an Ossein and Di-Calcium Phosphate manufacturing plant near Chalakudy at the project cost of Rs.1.5 crores approximately.

In November, 575 tonnes/day capacity Sulphuric Acid plant designed, fabricated and erected by FEDO was commissioned and handed over to HCL - Khetri.

In December, a Joint Labour Management Council was formed to increase labour management cooperation

#### 14. COCHIN FERTILIZER PLANT

(Fertilizer & Chemicals Travancore Ltd.)

##### (A) Cochin Phase I

1966: On 7th June, licence for establishing a Fertilizer project at Cochin was issued to FACT.

On 5th November, the levelling of site was started.

1967: On 24th April, non-plant civil work was started.

On 16th June, the civil work for the plant was started.

1968: In September, Mechanical erection was started.

1969: In February, electrical erection was started.

1971: In May, the plant was ready for pre-commissioning test.

1972: In September, salt scraper erection was completed.

In October-Synthesis gas to specification was produced first time.

1973: On 27th April, Urea production was started.

1974: Test run of Urea plant at 100% load was conducted on 31st December.

1975: Information given below after Cochin Phase-II.

##### (B) Cochin Phase II

1971: On 18th June, licence for establishing a fertilizer project capacity to produce 4,85,000 tonnes of granulated NPK per year.

1973: In February, construction of plant building was started.

In December, mechanical erection of Sulphuric Acid plant was started.

1974: In February, mechanical erection on NPK plant was started.

In September, piping and ducting for Sulphuric Acid plant was undertaken.

1975: In December, Water Treatment plant was completed.

(A) Cochin Phase I

In January, a long term settlement between the management of FACT-Cochin and trade union representing the workers was signed.

In June, welfare fund scheme was introduced in FACT-Cochin for financial assistance to the members.

On 26th July, the record daily production of Urea of 901 MT was achieved.

In September, a Joint Management Council was formed to increase labour management cooperation.

In November, a plant improvement programme was introduced at the total cost of Rs.3.44 crores. In November, the record monthly production of Urea of 1,00,000 MT was achieved.

#### 15. ROURKELA FERTILIZER PLANT (Hindustan Steel Ltd.)

1959: The fertilizer plant at Rourkela is a part of the Rourkela Steel Plant and manufactures Calcium Ammonium Nitrate. The Plant has an annual capacity of 1,12,000 tonnes of Nitrogen.

On 20th February, the contract was signed with M/s. Friedrich Uhde, GMBH of West Germany for Ammonia producing section.

1962: On 6th November, production of Ammonia and Nitric Acid was started. On 25th November, the production of Calcium ammonium Nitrate was started.

1963: On 1st April, M/s. Fertilizer Corporation of India were entrusted to operate the plant as agents of Hindustan Steel Ltd.

1964: On 1st May, the plant was transferred back.

1966: On 16th February, a contract was signed with M/s. Dr.C. Otto & Company of West Germany for Naphtha Plant, Steam reforming unit to supplement the deficiency of Coke Oven Gas.

On 29th December, trial production of Naphtha Reformed Gas commenced.

1969: On 18th May, there was an explosion in the Reformer Furnace while the plant was undergoing trial commissioning operations.

1970: On 7th August, the trial recommissioning operations of the Naphtha plant were started after the renovation of the furnace.

- 1971: On 27th February, after the guarantee test, the Naphtha plant was taken over for commercial operation by the fertilizer plant. The Plant has been running satisfactorily thereafter.
- 1972: On 9th February, a feasibility report giving 9 alternative schemes for the utilisation of potential capacity in Ammonia Plant and for the utilisation of Carbon Dioxide was submitted.
- 1973: During September, October 1973, heating system in the Naphtha Reforming plant was changed from gas to Naphtha firing; thereby releasing the fuel gas for use in the steel plant, to enable the steel plant to supply more coke-oven gas to CAN plant.
- Two additional storage tanks for Naphtha of capacity 4,500 CBM each were commissioned during 1973 wherever the old storage tank was of 2,400 CBM only.
- 1974: On 18th September, coke oven battery 5A in Rourkela steel plant was commissioned. Since then the coke oven gas supply to fertilizer plant has steadily improved.
- There was a record production of 28,342 tonnes of CAN during the month of March 1975 which was the highest so far.
- 1975: In October, achieved the record monthly production of CAN of 30,628 M.T.
- CAN production of 2,91,009 M.T. during the calander year 1975 was the highest production since inception.

16. NEYVELI FERTILIZER PLANT  
(Nayveli Lignite Corpn.)

- 1957: In May, a licence for setting up a Fertilizer plant was obtained from the Government of India.
- In October, a standing panel of technical experts considered the detailed specifications.
- 1959: In February, the tenders submitted by M/s. Pinstoh Bemag and Linde of West Germany and M/s. Ansaldo of Italy were approved.
- In October, the Fertilizer scheme was approved by the Govt. of India.
- 1960: In April, civil works commenced.
- 1965: In October, erection of the plant was completed.
- 1966: In March, Urea prills were first produced on one stream.
- In April, commercial production commenced.
- 1971: In June, three Benzene Absorber plants were commissioned.
- 1974: A proposal to change over the feed stock from lignite to oil was under consideration.

- 1975: Necessary agreements with M/s. Benfield Corporation (U.S.A.) & M/s. Shell Research Ltd. (London), for the technical know-how and with M/s. F.C.I., P & D Division for the execution of the project were finalised by the end of 1975.

17. MADRAS FERTILIZER PLANT  
(Madras Fertilizer Ltd.)

- 1966: On 14th May, Fertilizer Formation Agreement was signed between Amoco India Incorporated and the Government of India to establish M.F.L.
- On 16th December, the certificate for commencement of business was issued to M.F.L.
- On 17th December, Technical Assistance Agreement was entered into with Amoco India Incorporated to obtain technical expertise from the collaborators.
- 1967: On 20th July, contract for the design, engineering and construction of the plant and buildings was awarded to Chemical Construction Corporation (CHEMICO OF U.S.A.)
- On 15th November, agreement was entered with Fertilizantes Fosfatados Mexicanos, S.A. De C.V. of Mexico for the supply of Phosphoric Acid.
- 1968: On 2nd March, deed of Assignment of 330 Acres of land for the location of M.F.L. plant was executed by the Government of Tamil Nadu.
- 1969: On 18th September, Supplemental Agreement was executed with Chemical Construction Corporation (Chemico), the prime contractors.
- 1970: On 25th August, the first Boiler erected by Bharat Heavy Electricals Ltd., Trichy was started.
- 1971: On 21st January, NPK plant was accepted from prime contractors as ready for use.
- On 29th March, trial run of NPK plant was conducted.
- On 7th June, all plants were accepted from Chemical Construction Corporation (Chemico) as ready for use.
- On 9th September, Ammonia was first produced.
- On 6th October, Urea was first produced.
- On 16th October, NPK was first produced.
- On 12th November, Marketing Agreement was executed with Messrs Shaw Wallace & Co. Ltd., Madras-1.
- On 10th December, Marketing Agreement was executed with Mysore State Co-operative Marketing Federation Ltd., Bangalore.

On 11th December, Marketing Agreement was executed with M/s. Mysore State Agro-Industries Corporation, Bangalore.

On 11th December, Marketing Agreement was executed with M/s. Mysore State Agro-Industries Federation Ltd., Bangalore.

1973: In October "Vijay" was adopted as brand name of MFL products.

In June, National Safety Council of USA awarded MFL a merit certificate for "operation of million man hours without a disabling injury".

The proposal of establishing a third NPK train was approved which would increase 50% NPK capacity.

MFL participation in the equity share of Indian Potash Ltd. upto Rs.4.4 lakhs was approved in the extra ordinary meeting.

1974: On 9th April 1974, MFL crossed the landmark of production of one million tonnes of fertilizer.

MFL achieved the distinction of being first in production among Indian fertilizer plants during the operating year 1973-74 by producing 220 thousand tonnes of total fertilizer nutrients.

MFL made a net profit of Rs.32.84 million (Rs.3.28 crores) during the year 1973-74; although it was only the second full fiscal year after start of commercial production.

(B) PRIVATE SECTOR

18. VARANASI FERTILIZER UNIT

(Sahu Chemicals & Fertilizers)

1956: On 15th November, application for grant of industrial licence for the establishment of the undertaking was made.

On 6th December, licence was granted by the Government.

1957: Contract for the supply of plant and equipments was finalised.

In August and November, possession of land was taken.

On 9th November, foundation stone of the factory was laid and erection work commissioned.

1959: In February, erection work at Sahupuri was completed and commercial production started w.e.f. November.

1962: Production was stabilised after modifications.

1970: Further modifications were carried out and production stepped up.

Granulation plant for the granulation of Ammonium Chloride fertilizer started working.

1971: Letter of Intent was issued by the Government of India for increasing the capacities.

After expansion, the capacity of the plant will be:

Soda Ash	:	1,50,000 tonnes per year.
Ammonium Chloride	:	1,50,000 tonnes per year.
Ammonia	:	50,000 tonnes per year.

Application has been/<sup>made</sup>for patenting the process developed and perfected at Sahupuri for simultaneous manufacture of Ammonium Chloride fertilizer and Soda Ash.

1972: A study was concluded to modify the plant for better efficiency.

#### 19. ENMORE FERTILIZER PLANT

(E.I.D. Parry Ltd.)

1906: In the early 20th Century, E.I.D. Parry had a bone-meal fertilizer factory at Ranipet. Subsequently, in 1906 the manufacture of Superphosphate from Rock Phosphate was taken up.

1960: In 1960, the second Superphosphate factory was established at Tadepalli. This brought the total production capacity of both the plants to 80,000 tonnes per annum.

1963: In 1963, the E.I.D. Parry Group established another compound fertilizer factory at Ennore to manufacture Amm. Phosphate with a capacity of 51,000 tonnes.

1969: During 1969, an Ammonium Sulphate plant with a capacity of 38,000 tonnes per annum was established at Ennore. Production of a NPK complex was also started during that year.

#### 20. GUJARAT FERTILIZER PLANT

(Gujarat State Fertilizer Co. Ltd.)

1962: On 15th February, the Company was incorporated.

1964: On 10th March, letter of intent was issued by the Government.

In October, the possession of the land was taken.

1965: In April, the contracts for Ammonia and Urea plants were approved by the Government of India and Japan.

In May, contracts for Ammonium Sulphate and Diammonium Phosphate Complex plants were also approved and civil works for Ammonia and Urea plants were commenced.

In May, erection work of the equipment for Ammonium Sulphate and Diammonium Phosphate complex plants was commenced.

On 19th August, a letter of intent was issued by the Govt. for Phase II.



On 22nd November, letter of intent was issued by the Govt. for Phase III.

- 1967: On 8th May, Sulphuric Acid plant went on stream.  
On 26th May, Ammonia & Urea Plant went on stream.  
On 3rd June, production of phosphoric acid was started.  
On 5th June, production of di-ammonium phosphate was started.  
On 14th June, production of Ammonium Sulphate was started.  
On 5th December, civil work for phase II was started.
- 1969: On 7th June, Urea phase II plant was commissioned.  
On 3rd September, Ammonia phase II plant was commissioned.
- 1970: On 23rd June, contract was signed for a Caprolactum plant.
- 1971: On 27th August, foundation stone of Caprolactum plant was laid and civil work started.
- 1972: On 8th June, mechanical work for SO<sub>2</sub> Oleum plant started.  
On the 8th June mechanical work for Caprolactum plant was started.
- 1974: On 16th April, the Government issued a letter of intent for the substantial expansion of existing fertilizer plant for expansion of Ammonia & Urea plants.  
On 4th August, caprolactam production started.

21. VISAKHAPATNAM FERTILIZER PLANT  
(Coromandel Fertilizers Ltd.)

- 1961: On the 6th March, a licence for setting up a Fertilizer Plant was obtained from the Government of India.
- 1964: On the 10th April, Coromandel Fertilizers Ltd., was registered as a Public Limited Company.
- 1967: On the 15th December, Urea Production began.
- 1968: On the 5th February, the production of Complex Fertilizer 28:28:0 commenced
- 1969: On 3rd June, the production of complex fertilizer NPK 22:22:0 commenced  
On 3rd December, the production of complex fertilizer NPK 22:22:11 commenced.

- 1970: On February 7, one million manhours target without lost time accidents was reached.
- 1971: On 1st November, the production of complex Fertilizer for NEFT commenced.
- 1973: On 19th June, Industrial licence for the fertilizer plant revamping project was issued by Government of India.
- 1975: On 31st July, the new Demineralization plant for boiler feed water was inaugurated.

On 29th November, installation of IBM data processing machines was completed.

On 8th December, the revamped 900 MT/day Sulphuric Acid plant went into production.

On 17th December, the unit completed the working of third consecutive 'million man hours' without any accident.

During the year, zero frequency, zero severity safety records were established which were national records in fertilizer industry.

## 22. KOPA FERTILIZER PLANT (Shriram Chemicals Industries)

- 1966: In January, a letter of intent was obtained from the Govt..
- In June, technical collaboration and licence agreement with M/s. Chiyoda was signed.
- In September, an Industrial licence was obtained.
- In December, Government approval to technical collaboration agreement was given.
- 1967: In February, foundation stone of the plant was laid.
- 1969: In February, commercial production of Urea commenced.
- 1970: In February, application for expansion was submitted.
- 1971: In March, maximum production (123% of rated capacity achieved).
- In May, a letter of intent was obtained from the Government for the expansion of the plant capacity.
- 1972: In January, industrial licence was received for expansion.
- In May, approval for technical collaboration was received.
- In July, construction of expansion project commenced.
- 1974: In December, Annual capacity of Urea increased to 3.3 two tonnes.

23. KANPUR FERTILIZER PLANT  
(Indian Explosives Ltd.)

- 1965: In July, letter of intent was obtained from the Government to start fertilizer unit.
- 1966: In March, a D&R licence and approvals to technical and financial collaboration proposals and means of finance were obtained.
- 1967: In February, construction work was commenced.
- 1969: In November, the first stream of the Ammonia and Urea units was completed.
- In December, trial production began.
- 1970: In March, the second stream of the Ammonia and Urea Units was commissioned.
- 1975: In May, modifications on Ammonia plant were completed.
- In November, balanced modifications of Urea plant were completed.
- On 20th November, two million accident free manhours operation was completed.

24. GOA FERTILIZER PLANT  
(Zuari Agro Chemicals Ltd.)

- 1973: On 4th March, Naptha feed to reformer commenced.
- On 26th May, Urea prilling commenced
- On 5th June, despatch of Urea commenced.
- 1975: In August, Urea-Ammonium-Phosphate plant started the regular production.

25. SOUTHERN PETRO-CHEMICAL INDUSTRIES  
CORPN. LTD.- TUTICORIN.

- 1975: On 20th June, Ammonia production commenced.
- On 22nd June, Urea production commenced.

26. MANGALORE CHEMICALS & FERTILIZERS  
LTD., BANGALORE.

- 1976: On 20th March, Urea plant started production.
- On 20th April, regular production of Urea was started.

(C) COOP<sup>-1.27</sup> SECTOR  
27. INDIAN FARMERS FERTILIZER  
COOPERATIVES LTD.

(A) Kalol/Kandla Plant

1974: On 29th November, NPK plant was started.

1975: On 31st January, Urea production was started.

On 18th February, 'A' stream of NPK plant successfully used MAP for producing NPK fertilizers.

On 12th March, 'B' stream of NPK plant passed guarantee test.

On 14th March, Ammonia plant passed guarantee test.

On 15th May, Ammonia plant was accepted by IFFCO.

(B) Phulpur Project

1975: On 7th January, Board of World Bank approved \$ 109 million loan for this project.

On 24th January, Indian Ambassador to U.S.A. signed the above loan agreement at Washington.

On 31st March, land for the project was taken into possession.

In July, Government of India decided to change the feed-stock of the project from fuel oil to Naphtha; which was approved later by IBRD on 15th November.

On 7th & 8th October, contract for Urea plant with M/s. Snasprogetti of Italy was signed whereas for steam & power plant and Offsites the contract was signed with M/s. Development Consultants of Calcutta.

1976: On 27th February, Agreement for Urea plant was approved by the Government and became effective on the same date.

On 5th March, letter of intent was converted into industrial licence with an annual capacity of 495 thousand tonnes of Urea.

On 23rd and 24th March, an agreement was signed for Ammonia plant with M/s. Kellogg India Ltd. and M/s. Kellogg International Corporation.

SUMMARY CHRONOLOGY OF FERTILIZER MANUFACTURE

Year of first manufacture	Fertilizer material	Factory which first manufactured	operating under implementation			Approved in principle	
			as on 1.4.76	units	exp <sup>n</sup> .	units	exp <sup>n</sup> .
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(i) 1906-07	Single Super Phosphate	EMD Parry-Ranipet (TN)	30	-	-	-	-
(ii) 1933-34	Ammonium Sulphate		11	1	1	-	-
1933-34	(a) As by-product in steel industry	TISCO-Jamshedpur (Bihar)	6	-	-	-	-
1941-42	(b) Using Sulphuric Acid	Mysore Chem. Works. Belagula @	1	1	1	-	-
1947-48	(c) Using Gypsum	FACT-Alwaye (Kerala)	4	-	-	-	-
(iii) 1958-59	Amm. Sulphate Nitrate	FCI-Sindri (Bihar)	1	-	-	-	-
	Urea	FCI-Sindri (Bihar)	15	13	2	4	-
	Amm. Chloride	FACT-Alwaye (Kerala)	2	-	-	-	-
(iv) 1960-61	Amm. Phosphate Sulphate	FACT-Alwaye (Kerala)	3	-	-	-	-
(v) 1960-61	Calcium Amm. Nitrate	FCI-Nangal (Punjab)	2	-	-	-	-
(vi) 1965-66	Nitrophosphate	FCI-Trombay (Mah.)	1	2	-	-	-
(vii) 1967-68	Di-ammonium Phosphate	GSFC-Baroda (Gujarat)	1	1	-	-	-
(viii) 1967-68	Triple Super Phosphate	DMCC-Ambernath (Mah.)	1	2	-	-	-
	Urea-Ammonium- Phosphate	CFL-Vizag. (AP)	2	-	-	-	-
(ix) 1968-69	Ammonium-Phosphate- Sulphate-Nitrate NPK Complex Fert.	FCI-Trombay (Mah.) FCI-Trombay (Mah.)	1 2*	- 2	- 1	- 2	- -

\* Trombay unit produces NPK fertilizer designated as Nitro-phosphate.  
Vizag & Goa units also produce NPK fertilizers as URF.

@ Closed in 1965.

## Fertilizer Statistics at a glance

(Qty. in '000' tonnes)

Year	Production					Consumption					Imports					Total value of imports Rs. Million
	N.	P.	K.	Total	%vari.	N.	P.	K.	Total	%vari.	N.	P.	K.	Total	%vari.	
1954-56	80	12	-	92	-	108	13	10	131	-	53	-	10	63	-	73.30
1955-56	98	52	-	150	+ 63.1	212	53	29	294	+124.4	399	-	20	419	+565.1	121.76
1961-65	240	131	-	371	+147.3	555	149	69	773	+162.9	232	12	57	301	- 28.2	220.84
1965-66	233	111	-	344	- 7.3	575	132	777	784	+ 1.4	326	14	73	413	+ 37.2	411.88
1966-67	308	145	-	453	+ 31.7	738	249	114	1101	+ 40.4	632	148	118	898	+117.4	1288.23
1967-68	367	194	-	561	+ 23.8	1035	335	170	1540	+ 39.9	867	349	270	1486	+ 65.5	1933.05
1968-69	543	210	-	753	+ 34.2	1208	382	170	1760	+ 14.3	844	138	213	1195	- 19.6	1629.23
1969-70	716	222	14	952	+ 26.4	1356	416	210	1982	+ 12.6	667	94	120	881	- 26.3	1167.68
1970-71	830	229	14	1073	+ 12.7	1479	541	236	2256	+ 13.8	477	32	120	629	- 28.6	767.85
1971-72	952	278	36	1266	+ 18.0	1738	558	300	2656	+ 17.7	481	248	268	997	+ 58.5	899.67
1972-73	1060	326	88	1474	+ 16.4	1839	581	348	2768	+ 4.2	665	204	325	1194	+ 19.8	1212.62
1973-74	1060	323	81	1464	- 0.7	1829	650	360	2839	+ 2.6	659	213	370	1242	+ 4.0	1767.52
1974-75	1185	327	85	1597	+ 9.1	1774	477	328	2579	- 9.2	884	280	437	1601	+ 28.9	5991.34
1975-76	1535	320	94	1949	+ 22.0	2149	467	278	2894	+ 12.2	996	361	278	1635	+ 2.1	7227.65

N-Nitrogen ( $N_2$ ), P-Phosphate ( $P_2O_5$ ), K-Potash ( $K_2O$ )

% variation from preceding period in this table

NUTRIENT-WISE & SECTOR-WISE CAPACITY OF FERTILIZERS ( '000 tonnes )

DURING 1906-07

Year	NITROGEN (N <sub>2</sub> )				Phosphate (P <sub>2</sub> O <sub>5</sub> )											
	Public Sector		Private Sector		Coop. Sector		Total		Public Sector		Private Sector		Coop. Sector		Total	
	No.	Cap.	No.	Cap.	No.	Cap.	No.	Cap.	No.	Cap.	No.	Cap.	No.	Cap.	No.	Cap.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.
<u>I. EXISTING</u>																
1906-07	-	-	-	-	-	-	-	-	-	-	1	6.4	-	-	1	6.4
1913-14	-	-	-	-	-	-	-	-	-	-	2	7.4	-	-	2	7.4
1924-25	-	-	-	-	-	-	-	-	-	-	3	19.1	-	-	3	19.1
1941-42	-	-	-	-	-	-	-	-	1	5.4	3	19.1	-	-	4	24.5
1946-47	-	-	-	-	-	-	-	-	2	12.1	4	30.6	-	-	6	42.7
1947-48	1	10.0	-	-	-	-	1	10.0	2	12.1	5	36.0	-	-	7	48.1
1948-49	1	10.0	-	-	-	-	1	10.0	3	19.3	6	36.5	-	-	9	55.8
1950-51	1	10.0	-	-	-	-	1	10.0	5	19.3	8	44.2	-	-	11	63.5
1951-52	2	85.0	-	-	-	-	2	85.0	5	19.3	8	44.2	-	-	11	63.5
1956-57	2	85.0	1	4.0	-	-	3	89.0	5	19.3	8	44.2	-	-	11	63.5
1957-58	2*	127.0	1	4.0	-	-	3*	131.0	5	23.1	9	56.4	-	-	13	79.5
1959-60	4	136.0	2	14.0	-	-	6	150.0	5	23.1	10	61.8	-	-	14	84.9
1960-61	5	223.0	2	14.0	-	-	7	242.0	5	27.1	11	68.2	-	-	16	95.3
1961-62	5	223.0	2	14.0	-	-	7	242.0	5	27.1	13	89.4	-	-	18	116.5
1962-63	6	359.0	2	14.0	-	-	8	373.0	5*	30.1	17	118.3	-	-	22	148.4
1963-64	6	359.0	3	22.0	-	-	9	381.0	5	30.1	21	148.3	-	-	26	178.4
1964-65	6	359.0	3	22.0	-	-	9	381.0	5	30.1	22	154.8	-	-	27	184.9
1965-66	10	526.0	3	22.0	-	-	13	548.0	5	73.1	22	154.8	-	-	23	227.9
1966-67	10	526.0	3	22.0	-	-	13	548.0	5	73.1	23	164.3	-	-	29	237.4
1967-68	11	643.0	5	206.0	-	-	16	849.0	7	105.3	25	298.3	-	-	32	403.6

(Nitrogen (N<sub>2</sub>))

-: 31 :-

Phosphate (P<sub>2</sub>O<sub>5</sub>)

Year	Public Sector		Private Sector		Coop. Sector		Total		Public Sector		Private Sector		Coop. Sector		Total	
	No.	Cap.	No.	Cap.	No.	Cap.	No.	Cap.	No.	Cap.	No.	Cap.	No.	Cap.	No.	Cap.
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.
1968-69	12	683.0	6	336.0	-	-	18	1024.0	7	105.3 98.3@	26	316.7	-	-	33	422.0 415.0@
1969-70	12	683.0	7	656.0	-	-	19	1344.0	7	93.3	26	316.7	-	-	33	415.0
1971-72	13	864.0 828.0@	7	656.0 636.0@	-	-	20	1520.0 1464.0@	8	183.3	26	316.7	-	-	34	500.0
1973-74	15	1132.0	8	807.0	-	-	23	1939.0	8	133.3	26	316.7	-	-	34	500.0
1974-75	15	1132.0	8	819.0	-	-	23	1931.0	8	133.3	26	316.7	-	-	34	500.0
1975-76	16*	1187.0	9	1107.0	1	215.0	26	2509.0	8	196.0	29	369.0	1	127.0	38	692.0
<u>II. EXPECTED</u>																
1976-77	19	1543.0	10	1270.0	1	215.0	30	3028.0	11	583.0	30	451.0	1	127.0	42	1161.0
1977-78	24	2590.0	10	1270.0	1	215.0	35	4075.0	12	653.0	30	451.0	1	127.0	43	1236.0
1978-79	26	2977.0	10	1270.0	2	443.0	38	4690.0	13	733.0	30	451.0	1	127.0	44	1311.0
1979-80	27	3107.0	11	1543.0	3	494.0	41	5144.0	13	733.0	30	451.0	1	127.0	44	1311.0
1980-81	28	3335.0	11	1543.0	3	494.0	42	5372.0	13	733.0	30	451.0	1	127.0	44	1311.0
1983-84	30	3915.0	13	2116.0	3	494.0	46	6525.0	14	1033.0	31	535.0	1	127.0	46	1695.0

@ Capacity was derated.

\* Expansions.



**NUTRIENT-WISE BUILD-UP OF INSTALLED CAPACITY  
FOR FERTILIZER INDUSTRY AT THE END OF EACH  
FINANCIAL YEAR**

(000 Tonnes)

(1906-07 to 1980-81)

Year	Name of the Unit	Individual Capacity		Cumulative			
		N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	Nitrogen		Phosphate	
				No. of Plants	Capacity	No. of Plants	Capacity
1.	2.	3.	4.	5.	6.	7.	8.
1906-07	EID-Ranipet	-	6.4	-	-	1	6.4
1913-14	J.K. Chemicals	-	1.0	-	-	2	7.4
1924-25	DMC-Ambernath	-	11.7	-	-	3	19.1
1941-42	Mysore Chem.	-	5.4	-	-	4	24.5
1946-47	Hyderabad Chem.	-	6.7	-	-	5	31.2
	DCM	-	11.5	-	-	6	42.7
1947-48	FACT, Udyogamandal	10.0	-	1	10.0	6	42.7
	Anil Starch	-	5.4	1	10.0	7	48.1
1948-49	Western Chem.	-	0.5	1	10.0	8	48.6
	FACT-Udyogamandal	-	7.2	1	10.0	9	55.8
1950-51	Phosphate Co.	-	5.6	1	10.0	10	61.4
	Alembic	-	2.1	1	10.0	11	63.5
1951-52	FCL-Sindri-I	75.0	-	2	85.0	11	63.5
1956-57	By Product	4.0	-	3	89.0	11	63.5
1957-58	FCL-Sindri-II	42.0	-	3*	131.0	11	63.5
	Shaw-Wallace	-	12.2	3	131.0	12	75.7
	Bihar Chem.	-	3.8	3	131.0	13	79.5
1959-60	By Product	4.0	-	4	135.0	13	79.5
	By Product	5.0	-	5	140.0	13	79.5
	NCJM-Varanasi	10.0	-	6	150.0	13	79.5
	Andhra Sugars	-	5.4	6	150.0	14	84.9
1960-61	FCL-Nangal	80.0	-	7	230.0	14	84.9
	FACT-Udyogamandal-II	12.0	4.0	7*	242.0	15	88.9
	Andhra Fert.	-	6.4	7	242.0	16	95.3
1961-62	DMC-Kumhari	-	12.0	7	242.0	17	107.3
	Jay Shree	-	9.2	7	242.0	18	116.5
1962-63	HSL-Rourkela	120.0	-	8	362.0	18	116.5
	FACT-III Udyogamandal	11.0	3.0	8*	373.0	18*	119.5
	Blue Mount	-	7.2	8	373.0	19	126.7
	Rallis	-	9.8	8	373.0	20	136.5
	Adarsh	-	5.4	8	373.0	21	141.9
	Premier	-	6.5	8	373.0	22	148.4

.../-

Year	Name of the Unit	Individual Capacity		Cumulative			
		N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	Nitrogen		Phosphate	
				No. of Plants	Capacity	No. of Plants	Capacity
1.	2.	3.	4.	5.	6.	7.	8.
1963-64	EID - Ennore	8.0	10.0	9	381.0	23	153.4
	Krishna	-	8.1	9	381.0	24	166.5
	Associated	-	5.4	9	381.0	25	171.9
	Chamundi	-	6.5	9	381.0	26	178.4
1964-65	Coimbatore	-	6.5	9	381.0	27	184.9
1965-66	By Product	4.0	-	10	385.0	27	184.9
	By Product	3.0	-	11	388.0	27	184.9
	FCI - Trombay	90.0	43.0	12	478.0	28	227.9
	NLC - Neyveli	70.0	-	13	548.0	28	227.9
1966-67	West India	-	5.3	13	548.0	29	233.2
	Phosphate Co. Expn.	-	4.2	13	548.0	29*	237.4
1967-68	FCI - Gorakhpur	80.0	-	14	628.0	29	237.4
	FACT-Udyogamandal	37.0	20.0	14*	665.0	29*	257.4
	EID-Ennore - II	8.0	-	14*	673.0	29	257.4
	GFL - Vizag	80.0	73.0	15	753.0	30	330.4
	GSFC-I - Bareda	96.0	50.0	16	849.0	31	380.0
	Hindustan Zinc Ltd.	-	12.2	16	849.0	32	392.6
	DFC - Ambernath	-	11.0	16	849.0	32*	403.6
1968-69	FCI - Namrup	45.0	-	17	894.0	32	403.6
	SCI - Kota	130.0	-	18	1024.0	32	403.6
	Bharat Fert.	-	3.6	18	1024.0	33	407.2
	DCM Expn.	-	11.5	18	1024.0	33*	418.7
	Alenbic Expn.	-	3.3	18	1024.0	33*	422.0 (415.0)@
1969-70	IBL-Kanpur	200.0	-	19	1224.0	33	415.0
	GSFC-I Expn. Paroda	120.0	-	19*	1344.0	33	415.0
1971-72	NFL - Madras	164.0	85.0	20	1503.0	34	500.0
	FACT-Udyogamandal	12.0	-	20*	1520.0 (1464.0)@	34	500.0
1973-74	FCI - Durgapur	152.0	-	21	1616.0	34	500.0
	FCI - Gachin	152.0	-	22	1768.0	34	500.0
	ZACL - Goa	171.0	-	23	1939.0	34	500.0
1974-75	Kota Expn.	42.0	-	23*	1981.0	34	500.0
1975-76	By Product - Bokaro	4.0	-	24	1985.0	34	500.0
	IFPCO-Kanika/Kailol	215.0	127.0	25	2200.0	35	627.0

Year	Name of the Unit	Individual Capacity		Cumulative			
				Nitrogen		Phosphate	
		N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	No. of Plants	Capacity	No. of Plants	Capacity
1.	2.	3.	4.	5.	6.	7.	8.
	ZACL - Goa	-	42.0	25	2200.0	36	669.0
	FACL-Udyogamandal	-	10.0	25	2200.0	36*	679.0
	Maharashtra Agro Ind.	-	8.0	25	2200.0	37	687.0
	Orissa Chem. & Ferts.	-	5.0	25	2200.0	38	692.0
	Tuticorin	253.0	-	26	2458.0	38	692.0
	Gorakhpur Expn.	51.0	-	26*	2509.0	38	692.0
1976-77	Mangalore (April-76)	160.0	-	27	2669.0	38	692.0
	Namrup Expn.(May-76)	152.0	-	28	2821.0	38	692.0
	Tuticorin (Oct.-76)	-	51.0	28	2821.0	39	743.0
	Barauni (Oct.-76)	152.0	-	29	2973.0	39	743.0
	Khetri (Oct.76)	-	90.0	29	2973.0	40	833.0
	Madras Expn.(Oct.76)	12.0	27.0	29*	2985.0	40*	860.0
	Vizag Expn. (Nov.76)	3.0	31.0	29*	2988.0	40*	891.0
	Cochin II (Nov.-76)	40.0	114.0	30	3028.0	41	1005.0
	Sindri Rtn.(Dec.-76)	-	156.0	30	3028.0	42	1161.0
1977-78	Mangal Expn.(Aug.-77)	152.0	-	31	3180.0	42	1161.0
	Trombay IV (Nov.-77)	75.0	75.0	32	3255.0	43	1236.0
	Talcher (Jan.-78)	228.0	-	33	3483.0	43	1236.0
	Ramagundan(Jan.-78)	228.0	-	34	3711.0	43	1236.0
	Bhatinda (Jan-78)	235.0	-	35	3946.0	43	1236.0
	Sindri Mod.(Feb.-78)	129.0	-	35*	4075.0	43	1236.0
1978-79	Haldia (July-78)	152.0	75.0	36	4227.0	44	1311.0
	Baripat (July-78)	235.0	-	37	4462.0	44	1311.0
	Phulpar (March-79)	228.0	-	38	4690.0	44	1311.0
1979-80	Trombay (Jan-79)	130.0	-	39	4820.0	44	1311.0
	MONG (March-80)	51.0	-	40	4871.0	44	1311.0
	GATE (March-80)	273.0	-	41	5144.0	44	1311.0
1980-81	Korba (March-80)	228.0	-	42	5372.0	44	1311.0
<u>Under Consideration</u>							
	Kathura	235.0	-	43	5607.0	44	1311.0
	Paradeep	345.0	300.0	44	5952.0	45	1611.0
	Kakinada	228.0	84.0	45	6180.0	46	1695.0
	Kota Expansion	345.0	-	46	6525.0	46	1695.0

\* Expansions.

© Capacity derated to the extent /as given below in thousand tonnes:

Nitrogen - Trombay (9), Sindri (27), Kota (20)

Phosphate - Trombay (7).

PRODUCT-WISE CAPACITY BUILD UP OF FERTILIZERS  
AS ON 1ST APRIL OF EACH YEAR  
(1906-07 to 1983-84)

(I) UREA		(000 Tonnes)		
Year	Name of the Unit	Plant-wise capacity	Cumulative	
			Nos.	Capacity
1.	2.	3.	4.	5.
		1. Urea		
1957-58	FCI - Sindri II	23 (18)	1	23
1965-66	FCI - Trombay	99	2	122
	NLC - Neyveli	152	3	274
1967-68	CFL - Vizag.	16	4	290
	FCI - Gorakhpur	174	5	464
	GSFC - I - Baroda	103	6	567
1968-69	FCI - Namrup	55	7	622
	SCI - Kota	282 (240)	8	904
1969-70	GSFC-II, Baroda	261	8*	1165
	IEL - Kanpur	450	9	1615
1971-72	MFL - Madras	210	10	1825 (1778)
1973-74	FACT - Cochin-I	330	11	2108
	FCI - Durgapur	330	12	2438
	ZACL - Goa	280	13	2718
1974-75	SCI - Kota Expn.	90	13*	2808
1975-76	IFFCO - Kalol	306	14	3204
	SPIC - Tuticorin	512	15	3716
	FCI - Gorakhpur Expn.	111	15*	3827
1976-77	MOFL - Mangalore	340	16	4167
	FCI - Namrup Expn.	330	17	4497
	FCI - Burauni	330	18	4827
	CFL - Vizag. Expn.	14	18*	4841
1977-78	FCI - Mangal Expn.	330	19	5171
	FCI - Talcher	495	20	5666
	FCI - Ramagundam	495	21	6161
	NFL - Bhatinda	512	22	6673
	FCI - Sindri Mod.	263	22*	6936

Year	Name of the Unit	Plant-wise capacity	Cumulative	
			Nos.	Capacity
1.	2.	3.	4.	5.
1978-79	FCI - Baldia	165	23	7101
	NFL - Panipat	512	24	7613
	IFFCO - Phulpur	495	25	8108
1979-80	FCI - Trombay-V	283	26	8391
	GSFC - Baroda Expn.	594	27	8935
1980-81	FCI - Korba	495	28	9480
<u>Under Consideration</u>				
	NFL - Mathura	512	29	9992
	NFL - Paradeep	98	30	10090
	Nag.Fert. - Kakinada	300	31	10390
	SCI - Kota Expn.	750	32	11140
2. <u>Ammonium Sulphate</u>				
1947-48	FACT - Udyogamandal	48	1	48
1951-52	FCI - Sindri	355 (329)	2	403
1956-57	By Product	19	3	422
1959-60	By Product	19	4	441
	By Product	24	5	465
1960-61	FACT - Udyogamandal	40	5*	505
1962-63	FACT - Udyogamandal	10	5*	515
1965-66	By Product	17	6	532
	By Product	17	7	549
1967-68	EID - Bimere II	39	8	588
	FACT - Udyogamandal	100	8*	688
	GSFC-I - Baroda	148	9	836
1968-69	FCI - Namrup	100	10	936
1971-72				(910)
1975-76	By Product Bokaro	19	11	929
1977-78	FCI - Sindri Mod.	39	11*	968
1979-80	MCFC - Tarapur	243	12	1211

Year	Name of the Unit	Plant-wise Capacity	Cumulative	
			Nos.	Capacity
1.	2.	3.	4.	5.
<u>3. Ammonium Chloride</u>				
1959-60	NOZ - Varanasi	41	1	41
1962-63	FACT - Udyogamandal	25	2	66
<u>4. Ammonium Phosphate</u>				
1960-61	FACT - Udyogamandal	20	1	20
1962-63	FACT - Udyogamandal	14	1*	34
1963-64	EED - Ennore	51	2	85
1967-68	FACT - Udyogamandal	101	2*	186
1971-72	FACT - Udyogamandal	50 (For N)	2*	236
1975-76	FACT - Udyogamandal	50 (For P <sub>2</sub> O <sub>5</sub> )	2*	236
<u>5. Ammonium Sulphate Nitrate</u>				
1957-58	FCI - Sindri II	122	1	122
1971-72		(50)		( 50)
<u>6. Calcium Amm. Nitrate</u>				
1960-61	FCI - Nangal	320	1	320
1962-63	HSL - Rourkela	480	2	800
<u>7. Nitro Phosphate</u>				
1965-66	FCI - Trombay	280	1	280
1971-72		(180)		(180)
1977-78	FCI - Trombay-IV	375	2	555
1978-79	FCI - Haldia	500	3	1055
<u>8. UAP</u>				
1967-68	GFL - Vizag	200	1	260
1973-74	ZACL - Goa	150	2	410
1976-77	GFL - Vizag Debottle-necking	88	2*	498
<u>9. DAP</u>				
1967-68	GSFC - Baroda-I	103	1	103
1975-77	SMIC - Tuticorin	28	2	135
<u>10. NPK</u>				
1971-72	MFL - Madras	365	1	365
1975-76	INFCO - I/Randla	375	2	740
1976-77	SPIC - Tuticorin	132	3	872
	FACT - Cochin-II	435	4	1357
	MFL - Madras Expn.	182	4*	1539
1983-84	FCI - Kakinada	450	5	1989
	FCI - Paradeep	1420	6	3409

\* Expansions.  
( ) Derated capacity.

PRODUCT-WISE & PLAN-WISE CAPACITY OF FERTILIZERS

(000 Tonnes)

Last year of Plan		Urea	Amm. Sulphate	Amm. Chloride	Amm. Sulphate Nitrate	Cal. Amm. Nitrate	Amm. Phosphate	Nitro-phosphate	Urea Amm. Phosphate	Di Amm. Phosphate	NMK	Single Super Phosphate	Triple Super Phosphate	Total	
		1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
1951-52 (as on beginning of I Plan)	Q	-	48	-	-	-	-	-	-	-	-	397	-	-	
	N	-	10	-	-	-	-	-	-	-	-	-	-	10	
	P	-	-	-	-	-	-	-	-	-	-	64	-	64	
1955-56 (I st Plan)	Q	-	403	-	-	-	-	-	-	-	-	397	-	-	
	N	-	85	-	-	-	-	-	-	-	-	-	-	85	
	P	-	-	-	-	-	-	-	-	-	-	64	-	64	
1960-61 (IIInd Plan)	Q	23	505	41	122	320	20	-	-	-	-	571	-	-	
	N	11	106	10	32	80	3	-	-	-	-	-	-	242	
	P	-	-	-	-	-	4	-	-	-	-	91	-	95	
1965-66 (IIIInd Plan)	Q	274	549	65	122	800	85	280	-	-	-	1049	-	-	
	N	126	115	16	32	200	14	45	-	-	-	-	-	548	
	P	-	-	-	-	-	17	43	-	-	-	168	-	228	
1966-67 (Ist Annual Plan)	Q	274	549	66	122	800	85	280	-	-	-	1109	-	-	
	N	126	115	16	32	200	14	45	-	-	-	-	-	548	
	P	-	-	-	-	-	17	43	-	-	-	177	-	237	

Last year of Plan	Urea	Amm. Sulphate	Amm. Chloride	Amm. Sulphate Nitrate	Cal. Amm. Nitrate	Amm. Phosphate	Nitro-Phosphate	Urea Amm. Phosphate	Di- Amm. Phosphate	NPK	Single Super Phosphate	Triple Super Phosphate	Total
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
1967-68 (IInd Annual Plan)	Q	567	810	66	122	800	136	280	260	108	-	1185	27
	N	261	170	16	32	200	32	45	73	19	-	-	849
	P	-	-	-	-	-	37	43	73	50	190	11	404
1968-69 (IIInd Annual Plan)	Q	904	910	66	122	800	186	280	260	108	-	1300	27
	N	416	191	16	32	200	32	45	73	19	-	-	1024
	P	-	-	-	-	-	37	43 (36)	73	50	2208	11	422 (415)
1973-74 (IV Plan)	Q	2718	910	66	50	800	236	180	410	108	365	1300	27
	N	1250 (1240)	191	16	13	200	42	36	115	19	67	-	1939
	P	-	-	-	-	-	37	36	115 (73)	50	85	208	11
Vth Plan 1974-75 (Ist Year)	Q	2808	910	66	50	800	236	180	410	108	365	1300	27
	N	1232 (1232)	191	16	13	200	42	36	115	19	67	-	1981
	P	-	-	-	-	-	37	36	(73)	50	85	208	11
1975-76 (IIInd Year)	Q	3327	929	66	50	800	236	180	410	108	740	1381	27
	N	1751	195	16	13	200	42	36	115	19	100	-	2509
	P	-	-	-	-	-	47	36	115	50	212	221	11
1976-77 (IIIrd Year)	Q	4841	929	66	50	800	236	180	498	136	1559	1381	564
	N	2215	195	16	13	200	42	36	118	24	169	-	3028
	P	-	-	-	-	-	47	36	145	63	391	221	257

o/a



Last year of Plan	Urea	Am. Sulphate	Am. Chloride	Am. Sulphate Nitrate	Cal. Am. Nitrate	Am. Phosphate	Nitro Phosphate	Urea Am. Phosphate	Mi. Am. Phosphate	NPK	Single Super phosphate	Triple Super phosphate	Total
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.
1977-78 (IVth Year)	Q 5936	968	66	50	800	236	555	493	136	1539	1381	564	
	N 3179	203	16	13	200	42	111	118	24	169	-	-	4975
	P -	-	-	-	-	47	111	146	63	391	221	257	1236
1978-79 (Vth Year)	Q 8198	968	66	50	800	236	1055	498	136	1539	1381	564	
	N 3719	203	16	13	200	42	186	118	24	169	-	-	4690
	P -	-	-	-	-	47	186	146	63	391	221	257	1311
VI Plan 1979-80 (Ist Year)	Q 8985	1211	66	50	800	236	1055	498	136	1539	1381	564	
	N 4122	254	16	13	200	42	185	118	24	169	-	-	5144
	P -	-	-	-	-	47	186	146	63	391	221	257	1311
1980-81 (IIInd Year)	Q 9480	1211	66	50	800	236	1055	498	136	1539	1381	564	
	N 4350	254	16	13	200	42	186	118	24	169	-	-	5372
	P -	-	-	-	-	47	186	146	63	391	221	257	1311
1983-84 (Vth Year)	Q 1140	1211	66	50	800	236	1055	498	136	3409	1381	564	
	N 5113	254	16	13	200	42	186	118	24	559	-	-	6525
	P -	-	-	-	-	47	186	146	63	775	221	257	1895

Q = Quantity  
N = Nitrogen  
P = Phosphate

UNIT-WISEFERTILIZER CAPACITY AS ON 1.4.1976

(1000 Tonnes)

Units	Product	Product Capacity	Nutrient Capacity	
			Nitrogen	Phosphat
1.	2.	3.	4.	5.
<u>I. UNITS IN PRODUCTION</u>				
<u>A) Public Sector</u>				
1.	Sindri	Amn. Sulphate	69	-
		Urea	8	-
		Double Salt	13	-
		Total	90	-
2.	Nangal	Cal.Amn. Nitrate	30	-
3.	Trombay	Urea	45	-
		Nitro Phosphate	36	36
		Total	81	36
4.	Gorakhpur	Urea	131	-
5.	Namrup	Urea	24	-
		Amn. Sulphate	21	-
		Total	45	-
6.	Durgapur	Urea	152	-
7.	FACT - Udyogamandal	Amn. Sulphate	42	-
		Amn. Phosphate	34	37
		Amn. Chloride	6	-
		Total	82	37
8.	Cochin - I	Urea	152	-
9.	Rourkela	Cal.Amn.Nitrate	120	-
10.	Neyveli	Urea	70	-
11.	Madras	Urea	97	-
		NPK	67	85
		Total	164	85
12.	By-product	Amn. Sulphate	20	-
13.	S.Superphosphate Units	S.Superphosphate	-	38
	TOTAL (A)		1187	196
<u>I) Private Sector</u>				
1.	Varanasi	Amn. Chloride	10	-

Units	Product	Product Capacity	Nutrient Capacity	
			Nitrogen	Phosphate
1.	2.	3.	4.	5.
2. Ennore	Amm. Sulphate	39	8	-
	Amm. Phosphate	51	8	10
	Total		16	10
3. Gujarat	Amm. Sulphate	148	31	-
	Urea	364	166	-
	Dia-Amm. Phosphate	108	19	50
	Total		216	50
4. Vizag	Urea	16	7	-
	Urea Amm. Phosphate	260	73	73
	Total		80	73
5. Kota	Urea	330	152	-
6. Kanpur	Urea	450	200	-
7. Goa	Urea	280	129	-
	Urea Amm. Phosphate	150	42	42
	Total		171	42
8. Tuticorin *	Urea	512	236	-
	DAP	28	5	-
	UAP	132	17	-
	Total		258	
9. By-product	Amm. Sulphate	19	4	-
10. S. Superphosphate Unit	S. Superphosphate	1143	-	133
11. D.M.C.C.	F. Superphosphate	27	-	11
TOTAL (B)			1107	369
C) <u>Cooperative Sector</u>				
IFCO	Urea	396	182	-
	NiK	375	33	127
	Total		215	127
TOTAL I :			2509	692

Units	Product	Product Capacity	Nutrient Capacity Nitrogen	Capacity Phosphate
1.	2.	3.	4.	5.

## II. PLANTS UNDER IMPLEMENTATION

### (A) PUBLIC SECTOR

#### 1976-77

Namrup Expn.(May '76)	Urea	330	152	-
Barauni (August '76)	Urea	330	152	-
Khetri (Oct.'76)	TSP	190	-	90
Madras Expn.(Oct.'76)	M&K	182	12	27
Cochin II (Nov.'76)	NPK	485	40	114
Sindri Ratn.(Dec.'76)	TSP	347	-	156
Cumulative Public Sector			1543	583

#### 1977-78

Nangal Expn.(Aug.77)	Urea	330	152	-
Trombay IV (Nov. 77)	Nitro Phosphate	375	75	75
Talcher (Ja)	a	495	228	-
Ramagundam(	a	495	228	-
Bhatinda(Ja	a	512	235	-
Sindri Mod.	a	263	121	-
	.Sulphate	39	8	
	al		129	-
Cumulative Public			2590	658

#### 1978-79

Haldia (July 78)	Urea	165	77	-
	Nitro-phosphate	500	75	75
	Total		152	75
Panipat (July 78)	Urea	512	235	-
Cumulative Public			2977	733

#### 1979-80

Trombay V (Oct.79)	Urea	283	130	-
Cumulative Public			3107	733

Units	Product	Product Capacity	Nutrient Capacity	
			Nitrogen	Phosphate
1.	2.	3.	4.	5.
<u>1980-81</u>				
Korba (March 81)	Urea	495	228	-
Cumulative	Public		3335	733
(B) <u>PRIVATE SECTOR</u>				
<u>1976-77</u>				
Mangalore (April 76)	Urea	340	160	-
Tuticorin (Oct. 76)	NPK		-	51
Vizag Expn. (Nov. 76)	Urea	14	3	-
	UAP	88	31	31
	Total		3 @	31
<u>1979-80</u>				
Baroda Expn.	Urea	594	273	-
Cumulative (Private)			1543	451
(C) <u>COOPERATIVE SECTOR</u>				
<u>1978-79</u>				
Phulpur (March 79)	Urea	495	228	-
<u>1979-80</u>				
Tarapur (March 80)	Amn. Sulphate	243	51	-
Cumulative (Coop.)			494	127
TOTAL (I+II)			5372	1311
(III) <u>PLANTS UNDER CONSIDERATION</u>				
(A) <u>PUBLIC SECTOR</u>				
Mathura	Urea	512	235	-
Paradeep	Urea	98	45	-
	NPK	1420	300	300
	Total		345	300
Total III (A)			580	300
(B) <u>PRIVATE SECTOR</u>				
Kakinada	Urea	300	138	-
	NPK	450	90	84
	Total		228	84
Kota Expn.	Urea	750	345	-
TOTAL III (B)			573	84
TOTAL (I+II+III)			<u>6525</u>	<u>1695</u>

@ Capacity increased for phosphatic production only after debottlenecking of the existing plant.

UNIT-WISEINSTALLED CAPACITY OF SINGLE AND TRIPLE SUPER-  
PHOSPHATE UNITS AS ON 1.4.1975

Name of Factory	Installed Capacity ( '000' Tonnes )	
	Material	Nutrient (P <sub>2</sub> O <sub>5</sub> )
1.	2.	3.
<b>I. IN PRODUCTION</b>		
a) <u>Single Superphosphate</u>		
1. Andhra Fertilizers, Tadepalle (A.P.)	40	6.4
2. Andhra Sugars, Ltd., Tanuku (A.P.)	34	5.4
3. Hyderabad Chemicals and Fertilizers Maula Ali (A.P.)	42	6.7
4. Krishna Industrial Corporation Nidadavole, Andhra Pradesh	51	8.1
5. Fertilizers and Chemicals Travancore, Alwaye (Kerala)	45	7.2
6. Chamundi Chemicals & Fertilizers, Munirabad (Mysore)	41	6.5
7. Mysore Chemicals & Fertilizers, Balagula	34	5.4
8. Blue Mountain Estates and Industries Ltd., Eranore (Tamil Nadu)	45	7.2
9. Coimbatore Pioneer Fertilizers, Coimbatore (Tamil Nadu)	41	6.5
10. ELD Parry, Ranipet, (Tamil Nadu)	40	6.4
11. Premier Fertilizers, Cuddalore (T.N.)	41	6.5
12. Shaw Wallace & Co. Avadi (Tamil Nadu)	76	12.2
13. Aashish Chemicals and Fertilizers, Udhana (Gujarat)* (1)	34	5.4
14. Alembic Chemicals Works, Baroda (Gujarat)	34	5.4
15. Anil Starch Products, Bhavnagar (Gujarat)	34	5.4
16. Dharamsi Morarji Chemicals, Kunhari * (2) (M.P.)	75	12.0
17. Bharat Fertilizer Industries, Bombay Maharashtra.	22	3.6
18. Dharamsi Morarji Chemical Co., Ambernath * (3) Maharashtra	73	11.7
19. J.K. Chemical Co., Bombay (Maharashtra)	6	1.0
20. Western Chemical Industries, Bombay *(4) (Maharashtra)	3	0.5
21. West India Chemicals, Loni Kalbhore (Maharashtra)	33	5.3

Name of Factory	Installed Capacity ( '000' Tonnes)	
	Material	Nutrient
1.	2.	3.
22. Hindustan Zinc Ltd., (Rajasthan)	76	12.2
23. Ralli Chemicals Ltd., (U.P.)	61	9.8
24. D.C.M. Chemicals, Delhi * (5)	144	33.0
25. Associated Industries (Assam)	34	5.4
26. Bihar State Superphosphate Factory, Sindri, Bihar.	24	3.8
27. Jay Shree Chemicals and Fertilizers Khardah, West Bengal * (6)	56	9.2
28. Phosphate Co. Ltd., Rishra (West Bengal) * (7)	61	9.8
29. Maharashtra Agro Industries Co-operative, Bombay	50	8.0
30. Orissa Fertilizers & Chemicals, Rourkela	30	5.0
TOTAL :	1380	221.0
b) <u>Triple Superphosphate</u>		
1. Sharamsi Morarji Chemicals Co., Ambernath (Maharashtra)	27	11.0
II. <u>UNDER IMPLEMENTATION</u>		
a) <u>Triple Superphosphate</u>		
1. Fertilizer Corporation of India, Sindri (Bihar)	346	156.0
2. Khetri Project, Khetri Jhunjhunu (Rajasthan)	190	90.0
TOTAL	<u>540</u>	<u>246.0</u>
GRAND TOTAL (I & II)		<u>478.0</u>

Under liberalized policy the units were allowed to produce upto the following limit (000 tonne P<sub>2</sub>O<sub>5</sub>)

\* \* \* \* \*  
 (1) 11.2 (2) 15.2 (3) 23.4 (4) 1.1 (5) 34.6 (6) 9.1 (7) 17.3

PLANT-WISE CAPACITY OF NITROGEN AS PER RAW MATERIAL  
(AS ON 1.4.1976)

('000' Tonnes of N<sub>2</sub>)

Units	Naphtha	Fuel oil	Natural Gas	Coal	Coke	Lignite	Coke-oven Gas	Electro-Hydrogen	External Ammonia	Total
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.

I. PLANTS IN OPERATION(A) PUBLIC SECTOR

Sindri	20	-	-	-	70	-	-	-	-	90
Nangal	-	-	-	-	-	-	-	80	-	80
Trombay	81	-	-	-	-	-	-	-	-	81
Gorakhpur	131	-	-	-	-	-	-	-	-	131
Namrup	-	-	45	-	-	-	-	-	-	45
Durgapur	152	-	-	-	-	-	-	-	-	152
Udyogamandal	78	-	-	-	-	-	-	4	-	82
Cochin	152	-	-	-	-	-	-	-	-	152
Rourkela	48	-	-	-	-	-	72	-	-	120
Neyveli	-	-	-	-	-	70	-	-	-	70
Madras	164	-	-	-	-	-	-	-	-	164
By Products	-	-	-	-	-	-	20	-	-	20
TOTAL (A)	826	-	45	-	70	70	92	84	-	1187

(B) PRIVATE SECTOR

Varanasi	-	-	-	-	10	-	-	-	-	10
Ennore	16	-	-	-	-	-	-	-	-	16

.../-



Units	Naphtha	Fuel Oil	Natural Gas	Coal	Coke	Lignite	Coke-oven Gas	Electro-Hydrogen	External Ammonia	Total
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
Baroda	120	-	96	-	-	-	-	-	-	216
Vizag	80	-	-	-	-	-	-	-	-	80
Kota	152	-	-	-	-	-	-	-	-	152
Kanpur	200	-	-	-	-	-	-	-	-	200
Goa	171	-	-	-	-	-	-	-	-	171
Tuticorin	258	-	-	-	-	-	-	-	-	258
By Product	-	-	-	-	-	-	4	-	-	4
TOTAL (B)	997	-	96	-	10	-	4	-	-	1107

(C) COOP. SECTOR

IFFCO	-	-	215	-	-	-	-	-	-	215
TOTAL (I)	<u>1823</u>	-	<u>356</u>	-	<u>80</u>	<u>70</u>	<u>96</u>	<u>84</u>	-	<u>2509</u>

(II) PLANTS UNDER IMPLEMENTATION

(A) PUBLIC SECTOR

Namrup Expn.	-	-	152	-	-	-	-	-	-	152
Barauni	152	-	-	-	-	-	-	-	-	152
Madras Expn.	12	-	-	-	-	-	-	-	-	12
Cochin-II	-	-	-	-	-	-	-	-	40	40
Nangal Expn.	-	152	-	-	-	-	-	-	-	152
Trombay - IV	-	-	75	-	-	-	-	-	-	75
Talcher	-	-	-	223	-	-	-	-	-	223

Units	Naphtha	Fuel Oil	Natural Gas	Coal	Coke	Lignite	Coke-Oven Gas	Electro-Hydrogen	External Ammonia	Total
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.
Ranagundam	-	-	-	228	-	-	-	-	-	228
Bhatinda	-	235	-	-	-	-	-	-	-	235
Sindri Modn.	-	129	-	-	-	-	-	-	-	129
Haldia	-	152	-	-	-	-	-	-	-	152
Paripat	-	235	-	-	-	-	-	-	-	235
Trombay V	-	-	130	-	-	-	-	-	-	130
Korba	-	-	-	228	-	-	-	-	-	228
TOTAL (A)	<u>164</u>	<u>903</u>	<u>357</u>	<u>634</u>	-	-	-	-	<u>40</u>	<u>2143</u>
<b>(B) PRIVATE SECTOR</b>										
Mangalore	160	-	-	-	-	-	-	-	-	160
Vilag Expn.	3	-	-	-	-	-	-	-	-	3
Baroda Expn.	-	273	-	-	-	-	-	-	-	273
TOTAL (B)	<u>163</u>	<u>273</u>	-	-	-	-	-	-	-	<u>436</u>
<b>(C) COOP. SECTOR</b>										
Phulpur (IFFCO)	228	-	-	-	-	-	-	-	-	228
Tarapur (MGFC)	51	-	-	-	-	-	-	-	-	51
TOTAL (C)	<u>279</u>	-	-	-	-	-	-	-	-	<u>279</u>
TOTAL (II)	<u>606</u>	<u>1176</u>	<u>357</u>	<u>634</u>	-	-	-	-	<u>40</u>	<u>2363</u>
TOTAL (I+II)	<u>2429</u>	<u>1176</u>	<u>713</u>	<u>634</u>	<u>80</u>	<u>70</u>	<u>96</u>	<u>34</u>	<u>40</u>	<u>5272</u>

- Notes: (1) 41,000 tonnes of N<sub>2</sub> capacity to be transformed from C.O. Gas to Naphtha by the year 1980-81 in Rourkela plant.
- (2) Nangal Unit of 80,000 tonnes N<sub>2</sub> capacity would be based on F.O. by 1978-79, presently based on electrolytic hydrogen.
- (3) Feed stock of Neyveli unit of 70,000 tonnes of N<sub>2</sub> capacity, to be changed from lignite to fuel oil in 1979-80

PATTERN OF NITROGEN CAPACITY AS PER RAW-MATERIAL  
(As on 1.4.1976)

(Qty. in '000' tonnes of N<sub>2</sub>)

Based on the raw-materials (1)	In operation		Under implementation		Total	
	Qty. (2)	Percentage (3)	Qty. (4)	Percentage (5)	Qty. (6)	Percentage (7)
1. Naphtha	1823	72.7	606	21.2	2429	45.2
2. Fuel Oil	-	-	1176	41.0	1176	21.9
3. Natural Gas	356	14.2	357	12.5	713	13.3
4. Coal	-	-	684	23.9	684	12.7
5. Coke	80	3.2	-	-	80	1.5
6. Lignite	70	2.8	-	-	70	1.3
7. Coke-oven gas	96	3.8	-	-	96	1.8
8. Electrolytic Hydrogen	84	3.3	-	-	84	1.6
9. External Ammonia	-	-	40	1.4	40	0.7
Total	2509	100.0	2863	100.0	5372	100.0

Transformation of feed stock in future years

- (1) 48,000 tonnes of Nitrogen capacity to be transformed from C.O.gas to Naphtha by the year 1980-81 in Rourkela plant.
- (2) Nangal unit (80,000 tonnes N<sub>2</sub> capacity) would be based on fuel oil by 1978-79, which presently based on Electrolytic Hydrogen (power).
- (3) Feed-stock of Neyveli (70,000 tonnes N<sub>2</sub> capacity) to be changed from lignite to fuel oil in 1979-80.

PATTERN OF PHOSPHATIC CAPACITY AS PER RAW-MATERIAL  
(As on 1.4.1976)

('000' Tonnes of P<sub>2</sub>O<sub>5</sub>)

U N I T S	Sulphur Rock Phosphate	Smelter gasses	Waste Sulphuric Acid	Others	Pyrite	Nitric Acid	Phosphoric Acid	Total Capacity
<u>(I) Operating Units</u>								
(a) Single Super Phosphate Units	192	12	12	5	-	-	-	221
(b) Triple Super Phosphate Unit	11	-	-	-	-	-	-	11
<u>(c) Complex Units</u>								
FACT-Udyogamandal	37	-	-	-	-	-	-	37
FCI-Trombay	-	-	-	-	-	36	-	36
MFL-Madras	-	-	-	-	-	-	85	85
EID-Ennore	10	-	-	-	-	-	-	10
GSFC-Baroda	50	-	-	-	-	-	-	50
CFL-Vizag.	73	-	-	-	-	-	-	73
ZAC-Goa	-	-	-	-	-	-	42	42
IFFCO-Kandla	-	-	-	-	-	-	127	127
Total (C)								
Total (I)	373	12	12	5	-	36	254	692
<u>(II) Plants under implementation</u>								
MFL-Expn.-Madras	-	-	-	-	-	-	27	27
HCL-Khetri	-	90	-	-	-	-	-	90
SPIC-Tuticorin	51	-	-	-	-	-	-	51
CFL-Expn.-Vizag.	31	-	-	-	-	-	-	31
FACT-Cochin-II	114	-	-	-	-	-	-	114
FCI-Sindri Ratn.	-	-	-	-	156	-	-	156
FCI-Trombay-IV	-	-	-	-	-	75	-	75
FCI-Haldia	-	-	-	-	-	75	-	75
Total (II)	196	90	-	-	156	150	27	619
Total (I+II)	569	102	12	5	156	186	281	1,311

SECTOR-WISE PRODUCTION OF FERTILIZERS  
(1951-52 TO 1975-76)

(Nutrients)

('000' Tonnes)

Year	Nitrogen			Phosphate			Potash		
	Public	Private	Total	Public	Private	Total	Public	Private	Total
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.
1951-52	16	-	16	4	7	11	-	-	-
1952-53	55	-	55	3	3	6	-	-	-
1953-54	62	-	62	4	7	11	-	-	-
1954-55	74	-	74	5	12	17	-	-	-
1955-56	80	-	80	4	8	12	-	-	-
1956-57	77	2	79	5	10	15	-	-	-
1957-58	75	3	78	6	20	26	-	-	-
1958-59	78	3	81	8	22	30	-	-	-
1959-60	73	8	81	9	40	49	-	-	-
1960-61	89	9	98	10	42	52	-	-	-
1961-62	136	9	145	10	56	66	-	-	-
1962-63	168	10	178	12	68	80	-	-	-
1963-64	210	12	222	15	92	107	-	-	-
1964-65	225	15	240	17	114	131	-	-	-
1965-66	217	16	233	21	90	111	-	-	-
1966-67	293	15	308	32	113	145	-	-	-
1967-68	302	65	367	50	144	194	-	-	-
1968-69	401	142	543	53	157	210	-	-	-
1969-70	421	295	716	42	180	222	12	2	14
1970-71	382	448	830	51	178	229	12	2	14
1971-72	447	505	952	70	208	278	34	2	36
1972-73	496	564	1060	115	211	326	34	4	38
1973-74	535	525	1060	115	200	315	76	5	81
1974-75 *	547	638	1185	122	205	327	75	10	85
1975-76 *	834	701	1535	157	163	320	89	5	94

\* Public Sector includes figures for cooperative sector due to commissioning of IFPCO unit during 1974-75 as given below:

Year	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
1974-75	12	9	-
1975-76	115	37	14

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Production & Capacity Utilization of Nitrogen During 1970-71 to 1975-76

Units	Year of Commissioning	Installed Capacity	Production in '000' Tonnes											
			1970-71	1971-72	1972-73	1973-74	1974-75	1975-76						
			Prodn. % Util.	Prodn. % Util.	Prodn. % Util.	Prodn. % Util.	Prodn. % Util.	Prodn. % Util.						
<b>(A) PUBLIC SECTOR</b>														
1. Sindri	1951-52	90	75	72.7	65	81.1	56	73.3	59	79.0	53	76.7	46	66.7
2. Mangal	60-61	80	54	67.5	56	70.0	53	66.3	62	77.5	40	50.0	77	97.5
3. Trombay	65-66	81	54	64.4	61	81.5	63	86.4	58	80.2	60	84.0	69	97.5
4. Gorakhpur	67-68	131	68	85.0	76	95.0	69	86.3	64	80.0	73	91.3	67	72.0
5. Namrup	68-69	45	28	64.4	30	68.9	35	80.00	36	82.2	40	91.1	45	102.2
6. Durgapur	73-74	152	-	-	-	-	-	-	6	9.5	15	9.9	37	24.3
Total (FCI)		579	277	77.4	276	81.7	276	73.5	285	69.6	281	58.0	341	63.7
7. Wymondley	47-48	82	33	47.1	40	48.8	31	37.8	39	47.6	38	46.3	45	54.9
8. Cochin	73-74	152	-	-	-	-	-	-	14	9.2	40	26.3	67	44.1
9. Roukela	62-63	120	24	20.0	47	39.2	49	40.8	46	38.3	61	50.8	77	64.2
10. Neyveli	65-66	70	32	45.7	20	28.6	21	30.0	15	21.4	17	24.3	27	38.6
11. Madras	71-72	164	-	-	42	51.2	105	64.0	124	75.6	83	50.6	145	88.4
12. By products	59-60	20	14	87.5	12	75.0	14	87.5	12	75.0	15	93.7	17	85.0
Total (A)		1187	382	57.7	447	62.1	456	62.2	535	53.2	535	40.5	719	65.2
<b>(B) PRIVATE SECTOR</b>														
1. Varanasi	1959-60	10	6	60.0	5	50.0	5	50.0	6	60.0	5	50.0	5	50.0
2. Ennore	62-63	16	9	56.2	11	68.8	12	75.0	11	68.7	10	62.5	11	68.8
3. Paroda	67-68	216	149	69.0	185	85.6	203	94.0	183	75.5	160	74.1	158	73.1
4. Vizag	67-68	80	61	76.2	65	81.2	59	73.3	54	67.5	47	58.8	48	60.0
5. Kota	68-69	152	113	86.9	108	98.2	127	115.5	110	100.0	86	65.6	110	72.4
6. Kanpur	69-70	200	107	53.5	128	64.0	155	78.0	115	57.5	192	96.0	178	89.0
7. Coa	73-74	171	-	-	-	-	-	-	64	37.4	135	78.9	113	66.1
8. Tuticorin	75-76	258	-	-	-	-	-	-	-	-	-	-	75	50.0
9. By Products	33-34	4	3	75.0	3	75.0	2	50.0	2	50.0	3	75.0	3	75.0
Total (B)		1107	448	68.3	505	79.4	564	88.7	525	65.1	638	77.1	701	75.9
<b>(C) COOP. SECTOR</b>														
1. IFFCO	1974-75	215@	-	-	-	-	-	-	-	-	12	16.7	115	53.5
<b>GRAND TOTAL</b>		<b>2509</b>	<b>830</b>	<b>62.9</b>	<b>952</b>	<b>70.0</b>	<b>1020</b>	<b>73.5</b>	<b>1060</b>	<b>58.3</b>	<b>1173</b>	<b>58.7</b>	<b>1376</b>	<b>72.0</b>

@ Capacity included in next financial year because of late commissioning.

- Notes: 1. Capacity utilization is based on total Nitrogen production (Fertilizer grade & Industrial grade in FCI units only) and prorata capacity for the production period.  
2. Original capacity in Sindri (117), Trombay (90), FCI (70), Kota (130) thousand tonnes which was revised in 1971-72. Capacity of Kota was expanded by 42 thousand tonnes in 1974-75.

Production and capacity utilization of Phosphate  
during 1970-71 - 1975-76

(1000 Tonnes)

Units	Year of Commiss- ioning	Instd. (Cap. As on 31.3.76)	1970-71		1971-72		1972-73		1973-74		1974-75		1975-76	
			Prodn.	% Ut.	Prodn.	% Ut.	Prodn.	% Ut.	Prodn.	% Ut.	Prodn.	% Ut.	Prodn.	% Ut.
<b>(A) PUBLIC SECTOR</b>														
1. Single Super Phosphate units	1941-42	38	14	33.9	13	36.1	14	38.9	14	38.9	15	41.7	7	19.4
2. Trombay	65-66	36	25	66.7	33	91.7	37	102.8	32	88.9	32	88.9	34	94.4
3. IACT	60-61	37	12	45.3	12	45.3	11	41.5	12	67.0	10	65.7	19	51.4
4. MFL	71-72	85	-	-	12	28.2	53	63.5	52	61.2	48	56.5	60	70.6
Total (A)		196	51	51.5	70	49.6	115	62.5	115	62.5	113	61.4	120	61.9
<b>(B) PRIVATE SECTOR</b>														
1. Single Super Phosphate units	1906-07	183	86	50.0	109	63.4	107	62.2	111	64.5	120	69.8	67	36.2
2. Triple Super Phosphate units	1967-68	11	3	27.3	4	36.4	2	18.2	1	9.1	1	9.1	1	9.1
3. Emore	1962-63	10	6	60.0	9	90.0	8	80.0	8	80.0	9	90.0	9	90.0
4. GSFC	1967-68	50	25	50.0	23	46.0	32	64.0	27	54.0	27	54.0	28	56.0
5. Vizag	1967-68	73	58	79.5	63	86.3	62	84.9	61	83.6	48	65.3	50	68.5
6. Goa	1975-76	42	-	-	-	-	-	-	-	-	-	-	8	28.6
Total (B)		369	178	56.3	203	65.8	211	66.8	203	65.8	205	64.9	163	47.5
<b>(C) Coop. Sector</b>														
1. IFFCO	1974-75	127 @	-	-	-	-	-	-	-	-	9	21.4	37	29.1
<b>TOTAL (A+B+C)</b>		<b>692</b>	<b>229</b>	<b>55.2</b>	<b>273</b>	<b>60.8</b>	<b>326</b>	<b>65.2</b>	<b>323</b>	<b>64.6</b>	<b>327</b>	<b>60.3</b>	<b>320</b>	<b>50.6</b>

@ - Capacity of IFFCO not to be added during 1974-75 because of trial production.

UNIT-WISE PRODUCTION AND CAPACITY UTILIZATION  
OF PHOSPHATE IN SPECIAL FERTILIZERS

('000 TONNES OF P<sub>2</sub>O<sub>5</sub>)

(1970-71 to 1975-76)

Units	Year of Commence-	1970-71		1971-72		1972-73	
		Annual Capacity	% Utiliza.	Annual Capacity	% Utiliza.	Annual Capacity	% Utiliza.

1.	2.	3.	4.	5.	6.	7.	8.
<b>SINGIE SUPERPHOSPHATE UNITS</b>							
Bihar State Ind. Corpn.-Bhabad	1957-58	3.8	0.6	15.8	1.5	39.5	2.1
FACT - Udyogmandal	1948-49	7.2	4.7	65.3	2.6	36.1	3.3
RZL - Udaipur	1967-68	12.2	8.5	69.7	6.8	55.7	6.9
Hyderabad Chem.Fert. - Hyderabad	1945-47	6.7	0.1	1.5	0.7	10.4	1.0
Mysore Chem.Fert.- Belegula	1941-42	5.4	-	-	1.1	20.4	0.7
Adarsh Chem.Fert. - Udupa	1962-63	5.4*	5.1	94.4	7.6	140.7	6.7
Patshak Ltd. - Baroda	1950-51	5.4	1.9	35.2	3.0	55.6	2.2
Andhra Fert. - Tadepalli	1960-61	6.4	4.1	64.1	4.2	65.6	4.7
Amil Starch - Bavnagar	1947-48	5.4	1.6	29.6	2.7	50.0	1.2
Andhra Sugars - Tanuku	1959-60	5.4	2.7	50.0	2.4	44.5	1.7
Associated Ind. - Kampur	1963-64	5.4	1.9	35.2	0.7	13.0	-
Barat Fert. - Bombay	1968-69	3.6	1.8	50.0	1.9	52.8	2.4
Kothari Ltd. - Madras	1962-63	7.2	3.0	41.7	4.3	58.7	3.3
Coimbatore Foincers - Coimbatore	1964-65	6.5	2.0	30.8	1.7	26.2	1.9
Chemundi Chem.Fert.-Faichur	1963-64	6.5	-	-	-	-	0.2
DCM Chemicals - New Delhi	1946-47	23.0*	7.9	34.3	13.3	57.8	14.9
DMCC - Ambernath	1924-25	11.7*	16.5	141.0	19.0	162.4	10.8
DMCC - Kurnhari	1951-62	12.0*	8.8	73.3	14.2	118.2	11.1
EID Parry - Rajpet	1906-07	6.4	5.6	87.5	5.9	92.2	5.0
Jayshree Chem. Fert- Calcutta	1951-62	9.2*	2.8	30.4	4.1	43.5	6.9
J.K. Chem. - Bombay	1913-14	1.0	0.2	20.0	0.3	30.0	0.4
Dulshree Ind. - East Golevari	1963-64	8.1	1.3	16.0	1.6	19.8	1.0
Phosphate Co. - Calcutta	1950-51	9.8*	4.8	49.0	5.2	53.1	7.5
Pradies Fert. - Madras	1962-63	6.5	1.9	29.2	-	-	-
Ralli Chem. - Kanpur	1962-63	9.6*	2.0	20.1	5.3	56.1	5.5
Shaw Wallace - Madras	1957-58	12.2	9.6	78.7	10.4	95.2	10.1
Western Chem. - Bombay	1948-49	0.5*	0.6	120.0	0.3	160.0	0.7
West India Chem. - Kalthor	1966-67	5.3	-	-	-	-	-
W.I.P.C. - Bombay	1975-76	8.0	-	-	-	-	-
Orissa Fert. & Chem. - Rourkela	1975-76	5.0	-	-	-	-	-
TOTAL (I)		221.0	100.9	48.1	121.5	50.4	120.2
TRIPLE SUP (DMCC - Ambernath)	1957-68	11.0	3.2	28.1	4.1	37.3	2.5



Units	1973-74		1974-75		1975-76	
	Production	% Utilizn.	Production	% Utilizn.	Production	% Utilizn.
1.	2.	3.	4.	5.	6.	7.
<b>(I) SINGLE SUPERPHOSPHATE UNITS</b>						
<b>(A) Public Sector</b>						
1. Bihar State Ind. Corpn.-Dhanbad	0.8	21.1	1.8	47.4	0.6	15.8
2. F&CF - Udyogmandal	5.8	80.6	3.8	52.8	2.5	34.7
3. H. Z. L. - Udaipur	4.4	35.1	7.5	61.5	3.2	28.2
4. Hyderabad Chem. Fert.-Hyderabad	2.3	34.3	1.8	26.9	0.7	10.4
5. Mysore Chem Fert. - Belagula	0.5	9.3	-	-	-	-
6. Adarsh Chem. Fert. - Udhna	6.4	118.5	5.7	105.6	3.0	55.6
7. Panshak Ltd. - Baroda	3.1	57.4	3.3	61.1	0.6	11.1
8. Andhra Fert. - Tadepalli	4.8	75.0	5.7	89.1	4.0	62.5
9. Anil Starch - Bhavnagar	1.4	25.9	2.1	38.9	0.8	14.8
10. Andhra Sugars - Tanuku	2.1	38.9	2.5	46.3	1.4	25.9
1. Associated Ind. - Kanrup	-	-	0.1	1.9	0.7	13.0
2. Bharat Fert. - Bombay	1.5	41.7	1.3	36.1	-	-
3. Kothari Ltd. - Madras	3.1	43.1	4.0	55.6	2.5	34.7
4. Coimbatore Pioneers - Coimbatore	1.2	18.5	1.8	27.7	0.3	4.6
5. Chamundi Chem.Fert. - Raichur	-	-	-	-	-	-
6. DGM Chem. - Now Delhi	13.5	58.7	10.3	47.4	9.2	40.0
7. DMCC - Ambernath	22.1	188.9	18.7	159.8	11.8	100.9
8. DMCC - Kunhari	9.4	78.3	13.6	113.3	4.4	36.7
9. EID Parry - Ranipet	5.7	80.1	6.2	96.9	3.9	60.9
20. Jayshree Chem. Fert. - Calcutta	7.6	82.6	7.6	82.6	2.6	28.3
21. J.K. Chem. - Bombay	0.2	20.0	0.3	30.0	0.1	10.0
22. Krishna Ind. - West Godavari	1.5	18.5	2.1	25.9	0.6	7.4
23. Phosphate Co. - Calcutta	6.9	70.4	7.1	72.4	5.7	58.2
24. Premier Fert. - Madras	-	-	-	-	-	-
25. Ralli Chem. - Kanpur	5.2	53.1	6.1	62.2	4.1	41.8
26. Shaw Wallace - Madras	10.9	89.3	12.4	101.6	6.3	51.6
27. Western Chem. - Bombay	0.4	80.0	0.5	100.0	0.1	20.0
28. West India Chem. - Kalytor	4.0	75.5	4.4	83.0	3.0	56.6
29. M.A.I.D.C. - Bombay	-	-	0.8	10.0	1.7	21.0
30. Orissa Fert. & Chem. - Rourkela	-	-	2.9	58.0	0.2	4.0
TOTAL (I)	124.8	60.0	135.0	61.1	74.0	33.5
<b>(II) TRIPLE SUP (D.M.C.C. - Ambernath)</b>	1.1	10.0	1.1	10.0	0.8	7.3

PRODUCT USE PRODUCTION OF FERTILIZERS

('000' tonnes)

Products	1970-71		1971-72		1972-73		1973-74		1974-75		1975-76							
	Q	N (P)	Q	N (P)	Q	N (P)	Q	N (P)	Q	N (P)	Q	N (P)						
1.	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
1. Amm. Sulphate	635	34	622	130	556	117	572	120	589	124	613	123	-	-	-	-	-	-
2. Urea	1667	491	1239	570	1414	650	1413	650	1721	793	2233	1029	-	-	-	-	-	-
3. Ammonium Phosphate	82	14 (17)	96	16 (20)	96	16 (20)	125	21 (25)	139	23 (27)	171	30 (32)	-	-	-	-	-	-
4. Cal. Amm. Nitrate	312	78	412	103	408	102	431	108	466	101	618	154	-	-	-	-	-	-
5. Amm. Sulphate Nitrate	42	11	27	7	55	15	48	13	27	7	21	6	-	-	-	-	-	-
6. Amm. Chloride	34	8	32	8	30	7	32	8	27	7	27	7	-	-	-	-	-	-
7. Dia. Amm. Phosphate	55	10 (25)	53	9 (23)	69	12 (32)	59	11 (27)	58	10 (27)	53	10 (21)	-	-	-	-	-	-
8. Nitrophosphate	139	25 (25)	204	53 (53)	245	37 (37)	213	32 (32)	210	32 (32)	216	34 (34)	-	-	-	-	-	-
9. Urea Amm. Phosphate	226	58 (58)	237	63 (63)	219	57 (62)	209	53 (61)	165	42 (48)	209	55 (58)	-	-	-	-	-	-
10. N.P.H. Complex	8	1 (1)	74	13 (15)	266	47 (53)	268	44 (52)	250	46 (57)	450	82 (97)	-	-	-	-	-	-
11. Single Superphosphate	626	- (100)	759	- (122)	751	- (121)	779	- (125)	843	- (135)	462	- (74)	-	-	-	-	-	-
12. Triple Superphosphate	7	- (3)	9	- (4)	5	- (2)	2	- (1)	2	- (1)	2	- (1)	-	-	-	-	-	-
Total:-(Nitrogen)	830		952		1060		1163		1165		1535		-	-	-	-	-	-
Total:-(Phosphate)	(229)		(273)		(326)		(325)		(327)		(520)		-	-	-	-	-	-

Q = Quantity

N = Nitrogen (N<sub>2</sub>)

P = Phosphate (P<sub>2</sub>O<sub>5</sub>)



Unit	1970-71			1971-72			1972-73			1973-74			1974-75			1975-76					
	Q	M	P	Q	M	P	Q	M	P	Q	M	P	Q	M	P	Q	M	P			
9. Maharashtra																					
FCL-Ironlady	64	29	-	61	28	-	56	26	-	57	26	-	61	28	-	76	35	-			
Urea																					
Nitro-kosphate	159	25	25	204	33	33	246	37	37	215	32	32	210	32	32	216	34	34			
Total (9)	54	54	25	61	61	33	63	63	37	59	59	32	60	60	32	69	69	34			
10. Tamil Nadu																					
NIC-Neyveli	69	32	-	43	20	-	46	21	-	32	15	-	38	17	-	60	27	-			
Urea																					
MFL-Madras	-	-	-	66	30	-	125	58	-	175	80	-	87	40	-	185	85	-			
NPK	-	-	-	68	12	12	236	47	53	263	44	44	260	43	43	330	60	60			
Total(10)	32	32	-	62	62	12	126	126	53	139	139	52	100	100	48	172	172	60			
TOTAL (A)	382	382	37	447	447	57	496	496	101	535	535	101	535	535	98	719	719	113			
B. Private Sector																					
1. Bihar																					
TISCO	14	3	-	14	3	-	11	2	-	9	2	-	12	3	-	16	3	-			
Jamshedpur Ann.Sulphate																					
2. Rajasthan																					
SAIL	246	113	-	233	103	-	277	127	-	239	110	-	186	86	-	239	110	-			
Urea																					
3. Uttar Pradesh																					
NGZ-Mirzapur Ann. Chl.	25	6	-	22	5	-	22	5	-	23	6	-	18	5	-	20	5	-			
IEL-Kanpur	233	107	-	280	128	-	339	156	-	250	115	-	418	192	-	336	178	-			
Urea																					
Total (3)	113	113	-	133	133	-	161	161	-	121	121	-	121	121	-	183	183	-			
4. Andhra Pradesh																					
CFL-Secunderabad	6	3	-	4	2	-	5	2	-	2	1	-	19	5	-	2	1	-			
Urea																					
UaP	226	53	58	237	63	63	219	57	62	209	53	61	165	42	48	175	47	50			
Total (4)	61	61	58	65	65	63	59	59	62	54	54	61	61	47	48	48	48	50			
5. Tamil Nadu																					
EIL Parry-Bencore Ann. Sulphate	18	4	-	22	4	-	24	5	-	20	4	-	14	3	-	11	2	-			
Ann. Phosphate	24	4	5	36	6	8	42	7	8	40	7	8	47	7	9	54	9	9			

Unit	1970-71			1971-72			1972-73			1973-74			1974-75			1975-76		
	Q	N	P	Q	N	P	Q	N	P	Q	N	P	Q	N	P	Q	N	P
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.	16.	17.	18.	19.
Parry Complex	8	1	1	6	1	1	-	-	-	-	-	-	-	-	-	-	-	-
SPIC-Tuticorin Urea	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	163	75	-
Total (5):	9	9	6	11	9	8	12	8	11	8	10	9	10	9	163	75	86	9
6. Goa																		
ZACL-Zuarinagar Urea	-	-	-	-	-	-	138	64	-	-	293	135	-	-	227	105	-	-
UAP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	8	-	8
Total (6):	-	-	-	-	-	-	64	-	64	-	-	135	-	-	261	113	-	8
7. Chhatisgarh																		
GSFC-Baroda Urea	253	117	-	332	153	-	273	126	-	-	267	123	-	-	263	121	-	-
DAP	55	10	25	53	9	23	69	11	27	58	10	27	53	10	53	10	24	-
Amm. Sulphate	102	22	-	110	23	-	127	26	-	-	129	27	-	-	111	23	-	-
ASP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	4	-	4
Total (7):	448	149	25	564	203	32	525	96	163	27	638	160	27	158	701	23	28	23
Total (E)	448	149	25	564	203	32	525	96	163	27	638	160	27	158	701	23	28	23
(C) Coop. Sector (Gujarat)																		
*IFFCO-Kalol Urea	-	-	-	-	-	-	-	-	-	-	13	9	-	-	203	93	-	-
Kandla NPK	-	-	-	-	-	-	-	-	-	-	30	3	9	150	22	37	-	-
Total (C)	-	-	-	-	-	-	-	-	-	-	43	12	9	153	115	37	-	-
TOTAL (A + B + C):	850	126	952	1060	203	1060	1060	137	1060	137	1165	1165	191	1332	245	245	-	-

\* IFFCO unit was under trial by the end of 1974-75.



State/Units	1970-71		1971-72		1972-73		1973-74		1974-75		1975-76	
	Qty.	P.O.	Qty.	P.O.	Qty.	P.O.	Qty.	P.O.	Qty.	P.O.	Qty.	P.O.
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
12. Shaw Wallace & Co. Avadi <u>T O T A L</u>	60.0	9.0	65.0	10.4	62.9	10.1	68.0	10.9	77.9	12.4	39.6	6.3
	130.1	22.1	139.0	22.3	126.3	20.2	150.6	20.9	132.5	24.4	81.4	15.0
Total-South Zone	218.7	35.0	218.0	34.9	204.8	32.8	235.4	37.3	251.3	40.3	130.3	22.2
<u>WEST GUJARAT</u>												
13. Adarsh Chemicals & Fert. Uda	31.9	5.1	47.1	7.6	41.9	6.7	40.1	6.4	35.5	5.7	18.7	3.0
14. Atomic Chemicals Works, Baroda	11.9	1.9	18.4	3.0	13.5	2.2	19.1	3.1	20.5	3.3	4.0	0.6
15. Anil Starch Products, Blavnagar	10.0	1.6	17.1	2.7	7.6	1.2	8.7	1.4	13.4	2.1	4.3	0.8
<u>T O T A L</u>	53.8	8.6	82.6	13.3	63.0	10.1	67.9	10.9	69.5	11.1	27.5	4.4
<u>MAHARASHTRA</u>												
16. Learat Fertilizers Indust. Bombay	11.3	1.8	12.2	1.9	14.8	2.4	9.3	1.5	8.2	1.3	-	-
17. D.M.C.C., Anbernath	103.1	16.5	119.0	19.0	117.6	18.8	132.2	22.1	117.0	18.7	73.8	11.8
18. J.K. Chemicals, Bombay	1.2	0.2	1.9	0.3	2.3	0.4	1.1	0.2	1.5	0.3	0.5	0.1
19. Western Chemicals Indust. Ltd., Bombay	3.7	0.6	5.1	0.8	4.1	0.7	2.5	0.4	3.0	0.5	0.4	0.1
20. West India Chemicals Ltd., Kolhore	-	..	..	..	..	..	25.0	4.0	27.5	4.4	18.7	3.0
21. Maharashtra Agro Ind. Panvel	-	..	..	..	..	..	..	..	5.4	0.8	13.6	1.7
<u>T O T A L</u>	119.3	19.1	139.2	22.1	132.6	20.3	176.1	28.2	162.7	25.0	100.9	15.7
<u>CENTRAL</u> TOTAL WEST	173.1	27.7	220.8	35.4	201.8	32.4	244.00	39.1	232.2	37.1	131.5	21.1
<u>RAJASTHAN</u>												
22. D.M.C.C., Munkheri	55.0	8.8	88.4	14.2	69.6	11.1	58.6	9.4	84.7	13.6	27.6	4.4
<u>RAJASTHAN</u>												
23. Hindustan Zinc Ltd., Bhilai	53.9	8.5	42.2	6.8	42.9	6.9	27.3	4.4	47.1	7.5	20.3	3.2

State/Units	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77	1977-78	1978-79	1979-80	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86
	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.	Qty.
2.	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0

WEST BENGAL

24. <u>U. S. Chemicals Ltd.,</u> Howrah	12.5	2.0	34.5	5.5	34.6	5.5	32.2	5.2	38.1	6.1	25.4	4.1
25. <u>U. S. Chemicals Works,</u> Howrah	49.4	7.9	83.3	13.3	93.0	14.9	84.5	13.5	68.0	10.9	57.3	9.2
<u>T O T A L (GENERAL)</u>	170.8	27.2	248.4	39.4	240.1	38.4	202.6	32.5	257.9	39.1	130.6	20.9

WEST

ASSAM

26. <u>Associated Industries</u> (Assam), Guwahati	11.9	1.9	4.1	0.7	..	..	..	..	0.4	0.1	4.1	0.7
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BIHAR

27. <u>Bihar State Superphosphate</u> Factory, Sindri	3.7	0.6	9.6	1.5	13.3	2.1	4.9	0.8	11.0	1.8	3.4	0.6
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ORISSA

28. <u>Orissa Chemicals &amp; Fert.</u> Rourkela	..	..	..	..	..	..	..	..	16.0	2.9	1.0	0.2
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WEST BENGAL

29. <u>Jyeshthesh Chemicals &amp;</u> Fert. Khardal	17.5	2.8	25.8	4.1	42.9	6.9	47.5	7.6	47.6	7.5	16.3	3.6
30. <u>Phosphate Co. Rishra</u>	30.0	4.8	32.3	5.2	47.1	7.5	42.9	6.9	44.1	7.1	35.9	5.7
<u>T O T A L</u>	47.5	7.6	58.1	9.3	90.0	14.4	90.0	14.2	91.7	14.6	52.2	9.3

T O T A L EAST

<u>G R A N D T O T A L</u>	625.7	100.0	759.0	121.5	750.5	120.2	770.3	124.8	343.0	133.0	461.6	74.0
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## GRADE-WISE BREAKUP OF PRODUCTION OF COMPLEX FERTILIZERS

(unit '000' tonnes)

PERIOD 1969-70 TO 1975-76

Q - Quantity N - Nitrogen P - Phosphate

Units	Grade	1969-70			1970-71			1971-72			1972-73		
		Q	N	P	Q	N	P	Q	N	P	Q	N	P
PCT (Trenbay)	15/15/15	75	11	11	57	9	9	134	20	20	245	37	37
	20/20/0	23	5	5	60	12	12	45	9	9	-	-	-
	15/15/9	12	2	2	22	4	4	25	4	4	-	-	-
	Total	110	18	18	139	25	25	204	33	33	245	37	37
FACT (Udyogamandal)	15/20/0	53	9	10	57	10	12	58	10	12	51	8	10
	20/20/0	-	-	-	1	a	a	2	a	a	3	1	1
	Total	53	9	10	58	10	12	60	10	12	54	9	11
MFL (Madras)	17/17/17	-	-	-	-	-	-	65	11	11	282	41	41
	11/28/14	-	-	-	-	-	-	3	1	1	44	6	12
	24/24/0	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	68	12	12	286	47	53
EID (Eamoro)	10/10/0	28	4	5	24	4	5	35	6	8	42	7	8
	18/18/0	-	-	-	-	-	-	-	-	-	-	-	-
	14/14/14	10	2	2	8	1	1	6	1	1	-	-	-
	Total	38	6	7	32	5	6	41	7	9	42	7	8
CFL (Vizag)	23/23/0	165	46	46	160	45	45	192	54	54	174	49	49
	14/31/14	-	-	-	-	-	-	-	-	-	28	5	10
	22/22/11	5	1	1	6	1	1	10	2	2	-	-	-
	20/20/0	67	13	13	60	12	12	35	7	7	17	3	3
	Total	237	60	60	226	58	58	237	63	63	219	57	62
GSFC (Baroda)	19/20/0	45*	9*	22*	55	10	25	53	9	25	69	12	32
	20/20/0	-	-	-	-	-	-	-	-	-	-	-	-
	Total	45	9	22	55	10	25	53	9	25	69	12	32
ZACL (Goa)	19/19/19	-	-	-	-	-	-	-	-	-	-	-	-
	20/20/0	-	-	-	-	-	-	-	-	-	-	-	-
Total	-	-	-	-	-	-	-	-	-	-	-	-	

Contd.../-

Units	Grade	1973-74			1974-75			1975-76		
		Q	N	P	Q	N	P	Q	N	P
FCI (Trombay)	15/15/15	213	32	32	210	32	32	181	27	27
	20/20/0	-	-	-	-	-	-	35	7	7
	16/18/9	-	-	-	-	-	-	-	-	-
	Total	213	32	32	210	32	32	216	34	34
FACT (Udyogamandal)	16/20/0	65	10	13	68	11	15	67	11	13
	20/20/0	20	4	4	24	5	5	30	6	6
	Total	85	14	17	92	16	18	97	17	19
MFL (Madras)	17/17/17	209	36	36	226	33	33	280	43	43
	14/28/14	59	8	16	54	5	10	-	-	-
	24/24/0	-	-	-	-	-	-	50	12	12
	Total	268	44	52	280	43	48	330	60	60
EID (Eanore)	16/20/0	40	7	8	47	7	9	41	7	8
	18/9/0	-	-	-	-	-	-	13	2	1
	14/14/14	-	-	-	-	-	-	-	-	-
	Total	40	7	8	47	7	9	54	19	19
CFL (Visag)	28/28/0	172	48	48	137	33	33	163	45	45
	14/35/14	37	5	13	28	4	10	12	2	5
	22/22/11	-	-	-	-	-	-	-	-	-
	20/20/0	-	-	-	-	-	-	-	-	-
	Total	209	53	61	165	42	48	175	47	50
GSFC (Baroda)	18/46/0	59	11	27	58	10	27	53	10	24
	20/20/0	-	-	-	-	-	-	20	4	4
	Total	59	11	27	58	10	27	73	14	28
ZACL (Goa)	19/19/19	-	-	-	-	-	-	15	3	3
	28/28/0	-	-	-	-	-	-	19	5	5
	Total	-	-	-	-	-	-	34	8	8
IFFCO (Kandla)	24/24/0	-	-	-	-	-	-	46	11	11
	22/22/11	-	-	-	-	-	-	9	2	2
	10/28/26	-	-	-	14	1	4	3	1	1
	12/32/16	-	-	-	16	2	5	72	9	23
	Total	-	-	-	30	3	9	130	22	37

\* DAP of 20/48 grade.  
a. Less than 500 tonnes.



UNIT-WISE AND MONTH-WISE PRODUCTION OF AIRDRESS DURING 1975-76

Units	(000) Tones												
	April 75	May 75	June 75	July 75	Aug. 75	Sept. 75	Oct. 75	Nov. 75	Dec. 75	Jan. 76	Feb. 76	March 76	Total 1975-76
<b>(A) Public Sector</b>													
Shirdi	2.2	2.1	3.2	3.8	4.5	4.7	4.5	3.7	4.6	4.1	3.9	4.2	45.6
Mangli	3.4	4.6	5.5	7.0	6.9	7.1	7.2	6.9	7.1	7.5	6.5	7.5	77.2
Trimbay	2.5	4.2	3.3	4.7	6.0	6.1	7.1	6.7	7.1	7.3	6.7	7.4	69.1
Gorkhapur	1.5	3.8	4.3	7.9	5.8	3.6	3.5	3.8	5.6	9.0	8.6	10.2	66.7
Nararp	3.8	3.3	3.8	2.7	2.1	3.3	4.0	4.3	4.3	4.4	4.0	4.5	44.5
Dergapur	3.0	2.6	3.7	0.6	0.8	2.6	5.5	2.6	0.5	2.4	5.1	6.6	37.0
Total (PCI)	16.4	20.6	23.8	25.8	26.1	27.6	31.3	28.0	29.2	34.7	35.8	40.3	340.1
Udyogmandal	2.2	2.1	3.9	4.3	3.7	3.7	3.7	3.4	5.2	4.4	4.1	4.3	45.0
Cochin	5.7	3.3	4.3	4.1	6.4	5.9	4.7	7.5	6.8	6.3	6.1	6.1	67.5
Rovickela	5.6	2.7	5.5	6.5	7.4	6.8	7.6	6.5	4.8	8.3	7.8	7.7	77.2
Neyveli	-	-	-	0.2	11.7	2.7	2.8	3.2	3.4	4.4	4.4	4.7	27.5
Madres	12.5	11.9	11.4	12.5	10.0	10.8	12.6	12.1	12.7	15.5	12.5	12.7	145.2
By products	1.3	1.3	1.3	1.3	1.4	1.3	1.4	1.4	1.3	1.6	1.4	1.6	16.6
TOTAL (A)	43.7	41.9	50.2	54.7	56.7	58.8	64.6	62.1	63.4	73.2	72.4	77.4	719.1
<b>(B) Private Sector</b>													
Verenasi	0.1	-	0.3	0.5	0.5	0.6	0.4	0.6	0.5	0.5	0.5	0.5	5.0
Mareore	0.7	0.9	1.0	1.1	1.0	0.7	1.2	1.0	1.0	1.0	0.9	0.7	11.2
Rafoda	8.9	11.0	12.9	15.9	18.5	17.0	14.4	13.2	15.5	6.0	6.5	17.2	157.3
Vivag	4.1	3.5	3.1	3.9	3.5	4.0	3.3	-	4.1	6.0	5.7	6.2	49.3
Kota	6.4	7.7	9.0	1.9	9.2	8.5	11.4	9.7	11.0	12.0	9.1	11.8	109.8
Kanpur	11.9	15.1	8.1	16.8	9.5	14.2	16.0	11.2	15.7	20.1	17.7	21.0	177.6
Gee	7.5	-	-	10.2	13.2	8.2	5.4	13.4	14.3	13.9	15.2	13.5	112.6
Tullioerin	-	-	2.4	9.7	9.0	3.9	11.3	11.6	-	6.3	16.2	2.1	75.2
By products	0.3	0.3	0.2	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.2	0.3	3.2
Total (B)	41.9	36.5	37.0	60.3	64.4	57.5	64.2	60.9	62.9	70.3	70.0	73.3	700.9
Coop. Sector (IFFCO)	9.1	4.6	7.6	2.4	5.6	9.9	9.5	9.9	14.0	15.9	14.2	14.3	115.2
Grand Total	94.7	85.0	94.8	117.4	126.8	126.2	133.3	132.9	132.8	157.4	156.6	165.2	1575.2

('000' Tonnes)

APRIL - MAY 75 JULY 75 AUGUST - SEPTEMBER 75 OCTOBER - NOVEMBER 75 DECEMBER 75 - ESTIMATE

(A) PUBLIC SECTOR

(I) SSP Units

Udyogmandal	0.4	0.2	0.3	0.3	0.1	0.0	0.1	0.1	0.2	0.3	2.5
Others	0.2	0.4	0.6	0.6	0.5	0.5	0.4	0.3	0.2	0.2	4.5
Total (I)	0.6	0.6	0.9	0.9	0.6	0.5	0.5	0.4	0.4	0.5	7.1

(II) Complex Fertilizers

Trenbay	1.8	2.5	1.3	2.3	3.0	2.8	3.3	3.2	3.1	3.7	3.4	3.7	34.1
Udyogmandal	0.4	0.9	2.0	2.0	1.9	1.7	1.8	1.3	2.3	1.9	1.5	1.6	19.3
Madras	4.5	4.8	5.3	5.6	4.3	4.9	4.2	5.4	6.0	5.4	4.2	5.0	53.6
Total (A)	7.3	8.8	9.5	10.6	10.1	9.9	9.9	10.4	11.9	11.4	9.5	10.8	120.1

(B) PRIVATE SECTOR

SSP Units	4.9	4.5	5.8	7.3	6.3	4.9	4.4	6.3	7.0	5.8	4.5	5.0	65.7
TSP Units	-	-	-	-	-	-	-	0.2	0.2	-	0.4	-	0.8
Emore	0.8	1.1	1.1	1.0	1.0	0.4	0.9	1.0	0.9	0.5	0.3	0.4	9.4
Erroda	2.0	1.5	3.4	1.8	1.5	2.4	5.2	4.5	1.3	0.4	1.2	3.1	26.3
Vizag	5.6	4.5	3.1	3.9	3.6	4.1	3.7	-	4.0	6.0	5.7	6.2	50.9
Goa	0.1	-	-	-	0.2	0.8	0.8	1.8	1.6	0.9	1.0	1.0	8.2
Total (B)	13.4	11.6	13.4	14.0	12.6	12.6	14.6	13.8	15.0	13.6	13.1	13.7	163.4

(C) COOP. SECTOR

Kandla (IPFCO)	3.8	1.9	2.2	2.4	1.0	2.6	2.5	-	2.9	3.7	5.9	4.8	36.9
GRAND TOTAL	24.5	22.3	25.1	27.0	23.7	25.1	27.0	24.2	29.8	26.7	27.7	27.3	320.4
Cumulative	24.5	46.8	71.9	98.9	122.6	147.7	174.7	198.9	228.7	257.1	285.1	309.4	320.4

JAN. - DEC. 75 = 317.7

PRODUCTION OF ANHYDROUS AMMONIA DURING  
1972-73 TO 1975-76

( '000' Tonnes)

Raw materials/Units	Annual Nitrogen capacity	PRODUCTION OF AMMONIA			
		1972-73	1973-74	1974-75	1975-76
1a	2a	3a	4a	5a	6a
<b>(I) Solvent Naphtha</b>					
Sindri	20	16.0	23.8	22.8	22.5
Trombay	81	94.8	87.1	73.3	80.7
Gorakhpur	131	93.7	85.8	97.2	91.0
Durgapur	152	-	12.1	25.6	46.0
Udyogamandal	78	46.0	58.1	59.3	69.0
Cochin-I	152	-	17.5	47.7	90.6
Rourkela	48	10.0	6.0	20.0	30.0
Madras	164	147.6	169.2	112.7	201.8
Ennore	16	14.1	12.7	12.5	16.2
Baroda	120	154.5	128.0	142.5	125.1
Vizag	80	81.7	75.4	56.2	70.1
Koba	152	161.2	141.2	111.0	133.2
Kanpur	200	203.2	144.3	240.0	224.3
Goa	171	-	77.0	161.5	141.8
Tuticorin	258	-	-	-	97.4
<b>TOTAL</b>	<b>1323</b>	<b>1022.8</b>	<b>1033.5</b>	<b>1187.7</b>	<b>1444.7</b>
<b>(II) Coal</b>					
(a) Coking Coal-Sindri	70	87.1	80.8	78.0	68.6
(b) Coke-oven gas-Rourkela	72	60.0	60.0	65.0	80.3
(c) Lignite-Nayveli	70	31.9	21.9	26.5	39.6
(d) Coking coal-Varennasi	10	6.6	6.8	5.6	8.5
<b>(III) Power</b>					
Electro-Lytic Hydrogen					
(a) Mangal	60	69.5	80.5	52.6	98.5
(b) Udyogamandal	4	2.5	3.0	3.0	3.5
<b>TOTAL</b>	<b>81</b>	<b>72.0</b>	<b>83.5</b>	<b>55.6</b>	<b>102.0</b>
<b>(IV) Natural Gas</b>					
Barrow	45	50.3	52.4	55.4	61.0
Baroda	96	121.4	100.6	111.0	90.0
IMPCO	215	-	-	30.6	157.0
<b>TOTAL</b>	<b>356</b>	<b>171.7</b>	<b>153.0</b>	<b>197.0</b>	<b>318.0</b>
<b>GRAND TOTAL</b>	<b>2185</b>	<b>1452.1</b>	<b>1444.6</b>	<b>1615.0</b>	<b>2061.7</b>

DISTRIBUTION AND CONSUMPTION OF TONS OF NUTRIENTS

1952-53 to 1975-76

(000 Tonnes)

Year	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	F	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1952-53	57.8	4.6	3.3	57.8	4.6	3.3
1953-54	89.3	8.3	7.5	89.3	8.3	7.5
1954-55	94.8	15.0	11.1	94.8	15.0	11.1
1955-56	107.5	13.0	10.3	107.5	13.0	10.3
1956-57	123.1	15.9	14.8	123.1	15.9	14.8
1957-58	149.0	21.9	12.8	149.0	21.9	12.8
1958-59	172.0	29.5	22.4	172.0	29.5	22.4
1959-60	229.3	53.9	21.3	229.3	53.9	21.3
1960-61	211.7	53.1	29.0	211.7	53.1	29.0
1961-62	291.5	63.9	28.0	250	61	28
1962-63	360.0	81.1	36.4	333	83	37
1963-64	407.0	116.7	50.6	377	116	51
1964-65	434.5	147.7	70.4	555	119	69
1965-66	547.4	132.2	77.7	575	132	77
1966-67	838.7	248.6	115.7	738	249	114
1967-68	1051.3	422.1	265.6	1055	335	170
1968-69	1254.0	318.4	177.6	1208	382	170
1969-70	1040.2	234.9	132.5	1356	416	210
1970-71	1310.0	305.1	197.7	1479	541	215
1971-72	1652.7	475.5	256.3	1790	550	310
1972-73	1742.2	534.3	312.1	1839	531	318
1973-74	1613.1	541.4	381.2	1829	650	350
1974-75	1645.0	495.8	317.0	1766	472	336
1975-76	1909.0	375.0	227.0	2149	467	278

(1) Figures from 1952-53 to 1956-57 relate to calendar years ending in the first half of the period stated while from 1957-58 to 1975-76 on April-March basis.

(2) Excludes data in respect of natural rock phosphate.

(3) In the case of Potash from 1952-53 to 1958-59 in absence of distribution figures the quantity is taken as imported. Figures relate to financial year April-March.

Source:- Fertilizer Statistics 1974-75 (FAI) for distribution & Ministry of Agriculture for consumption.

Note:- Upto 1963-64 Distribution figures are being treated as consumption.



PRODUCT-WISE DISTRIBUTION OF NITROGENOUS FERTILIZERS  
DURING 1971-72 TO 1975-76 & 1976-77 (EXCEPTED)

Distribution (000 Tonnes)

Kind of Fertilizer	Grade	1971-72	1972-73	1973-74	1974-75	1975-76	76-77*
1.	2.	3.	4.	5.	6.	7.	8.
Ammonium Sulphate	(20.6% N)	877 (10.9)	774 (9.3)	629 (8.0)	757 (8.6)	691 (7.5)	620 (5.3)
Ammonium Sulphate Nitrate	(26% N)	44 (0.7)	56 (0.8)	50 (0.7)	41 (0.6)	28 (0.4)	25 (0.3)
Urea	(46% N)	2234 (62.1)	2424 (64.2)	2280 (65.0)	2584 (67.1)	2917 (70.3)	3300 (72.8)
Calcium Ammonium Nitrate	(29% N) (26% N)	412 323	417 297	421 178	413 290	598 126	600 200
Ammonium Chloride	(25% N)	29 (0.3)	14 (0.2)	14 (0.2)	30 (0.4)	12 (0.2)	15 (0.2)
Ammonium Phosphate Sulphate	(16-20-0) (20-20-0) (13-9-0)	101 35 -	99 2 -	103 22 -	117 24 -	105 26 2	115 35 30
Ammonium Sulphate Phosphate	(19.5-19.5-0)	-	-	-	-	20 (0.2)	20 (0.2)
Nitrophosphate	(15-15-15) (20-20-0)	206 -	211 -	214 -	184 -	192 2(1);6(2)	135 80;55(2)
Ammonium Nitrate Phosphate	(20-20-0)	- (-)	36 (0.4)	190 (2.4)	122 (1.3)	26 (0.3)	75 (0.6)
Diammonium Phosphate	(18-46-0)	344 (3.7)	429 (4.4)	412 (4.6)	363 (3.5)	175 (1.6)	210 (1.6)
Urea Ammonium Phosphate	(28-28-0) (20-20-0)	226 42	173 20	173 -	134 -	159 -	190 -
Mono-ammonium Phosphate	(11-55-0)	- (-)	12 (0.1)	9 (0.1)	- (-)	- (-)	- (-)

Kind of Fertilizer	Grade	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77*
1.	2.	3.	4.	5.	6.	7.	8.
NPK Fertilizers	(10-26-26)	-	-	-	5	12	100
	(12-32-16)	-	-	-	13	40	100
	(15-15-20)	-	-	-	-	1	-
	(14-28-14)	12	44	50	34	a	15
	(14-35-14)	-	26	30	30	13	50
	(15-15-15)②	296	173	22	196	95	30
	(17-17-16)	-	-	-	-	a	-
	(17-17-17)	45	238	222	211	232(3)	340(5)
	(18-17-17)	3(4)	2(4)	-	-	8	-
	(19-19-19)	-	-	-	-	2	30
	(22-22-11)	6	-	-	-	2	-
(24-24-0)	-	-	-	-	92	105(6)	
		( 3.4)	( 4.3)	( 3.4)	( 4.1)	( 4.9)	( 5.3)
N	Through straight fertiliser	1412	1479	1314	1592	1577	2074
		(85.3)	(84.9)	(83.3)	(86.3)	(87.9)	(86.4)
P	Through complex fertilisers	243	263	269	253	232	326
		(14.7)	(15.1)	(15.7)	(13.7)	(12.1)	(13.6)
Total N		1655	1742	1583	1845	1809	2400
		(100.0)	(100.0)	(100.0)	(100.0)	(100.0)	(100.0)

\* Estimated

- (1) Includes 392 tonnes of imported material.
- (2) Ammonium phosphate sulphate nitrate of grade (20-20-0)
- (3) Includes 4213 tonnes of imported material.
- (4) Grade (18-27-3).
- (5) Includes 26,000 tonnes of imported material.
- (6) Includes 50,000 tonnes of imported material.

- ② Gradewise break-up of imported NPK complex fertilisers is not available, therefore, it is assumed to be of grade (15-15-15).
- a Less than 500 tonnes.
- ( ) Figure in bracket represents contribution of a particular fertiliser to the total nutrient taken as 100 (vertical).

Source: Annual Review - 1975-76 (FAL).

PRODUCT WISE DISTRIBUTION OF PHOSPHATIC FERTILISERS DURING 1971-72  
TO 1976-77 (ESTIMATED)

Kind of fertilisers	Grade	Distribution (000 tonnes)					
		1971-72	1972-73	1973-74	1974-75	1975-76	1976-77
Superphosphate	(16% w.s.P <sub>2</sub> O <sub>5</sub> )	750 (25.3)	794 (24.0)	805 (24.7)	708 (21.6)	408 (12.9)	750 (21.7)
Pelofos <sup>1</sup>	(18% total P <sub>2</sub> O <sub>5</sub> )	=	=	9 (0.3)	10 (0.4)	3 (0.1)	8 (0.2)
Triple superphosphate	(45% w.s.P <sub>2</sub> O <sub>5</sub> )	7 (0.7)	4 (0.3)	5 (0.4)	7 (0.6)	2 (0.2)	20 (1.0)
Ammonium phosphate sulphate	(16-20-0)	101	99	103	117	105	115
	(20-20-0)	35	2	22	24	26	35
	(13-9-0)	=	=	=	=	2	30
Ammonium sulphate- phosphate	(19.5-19.5-0)	=	=	=	=	20	20
	(-)	(-)	(-)	(-)	(-)	(1.0)	(0.7)
Nitrophosphate	(15-15-15)	206	211	214	184	192	138
	(20-20-0)	=	=	=	=	27.62	80.55
Ammonium nitrate phosphate	(20-20-0)	(6.5)	(5.9)	(5.9)	(5.6)	(8.1)	(8.6)
	(-)	(-)	36 (1.4)	190 (7.0)	122 (4.0)	25 (1.4)	75 (2.7)
Diammonium phosphate	(18-46-0)	344 (34.4)	429 (37.0)	412 (35.0)	353 (33.6)	173 (21.5)	210 (17.5)

Grade	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77
Urea ammonium phosphate { 28-29-0 } { 20-20-0 }	226 42 (15.1)	175 20 (11.9)	173 7 (3.9)	134 7 (7.5)	159 7 (11.9)	190 7 (9.0)
Mono-ammonium phosphate { 11-55-0 }	(-)	(12)	(9)	(-)	(-)	(-)
NPK complex fertilizers { 10-26-26 }	"	"	"	5	12	100
{ 12-32-16 }	"	"	"	13	40	100
{ 13-13-20 }	"	"	"	"	1	"
{ 14-28-14 }	12	44	39	34	a	15
{ 14-35-14 }	"	26	39	30	13	50
{ 15-15-15 } <sup>4</sup>	206	178	22	196	95	30
{ 17-17-16 }	"	"	"	"	3 <sup>3</sup>	" <sup>5</sup>
{ 17-17-17 }	45	238	222	211	282	340
{ 18-17-17 }	34)	21)	"	"	8	"
{ 19-19-19 }	"	"	"	"	2	30
{ 22-22-11 }	6	"	"	"	2	"
{ 24-24-0 }	"	"	"	"	52	105 <sup>(6)</sup>
	(12.2)	(16.7)	(12.3)	(18.1)	(28.7)	(31.5)
$\frac{1}{2}$ O5 Through straight fertilizers	123 (26.0)	130 (24.3)	137 (25.4)	122 (24.6)	76 (20.3)	130 (23.6)
Through complex fertilizers	351 (74.0)	404 (75.7)	404 (74.6)	375 (75.4)	288 (79.7)	420 (76.4)
Total $\frac{1}{2}$ O5	474 (100.0)	534 (100.0)	541 (100.0)	497 (100.0)	374 (100.0)	550 (100.0)

4. Estimated.  
 1. Includes 392 tonnes of imported material.  
 2. Ammonium phosphate sulphate nitrate of grade (20-20-0)  
 3. Includes 4,218 tonnes of imported material.  
 4. Of grade (18-27-3)  
 5. Includes 26,000 tonnes of imported material.

6. Includes 30,000 tonnes of imported material.  
 a. Less than 500 tonnes.  
 6. Gradewise breakup of imported NPK complex fertiliser is not available, therefore, it is assumed to be of grade (15-15-15).  
 ( ) Figure in bracket represents contribution of a particular fertiliser to the total nutrient taken as 100- (Vertical).

PRODUCT WISE DISTRIBUTION OF POTASSIC FERTILIZERS  
DURING 1971-72 TO 1975-76 & 1976-77 (ESTIMATED)

Kind of fertiliser	Distribution ( '000 tonnes)						
	Grade	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77*
1. Muriate of potash (Straight use)	(60% K <sub>2</sub> O)	281 (65.6)	335 (64.5)	476 (75.0)	327 (61.8)	196 (51.8)	355 (66.5)
2. Muriate of potash (used as intermediate for complex fertilisers)	(60% K <sub>2</sub> O)	70 (16.5)	137 (26.3)	117 (23.1)	143 (28.0)	152 (40.2)	150 (29.9)
3. Sulphate of potash (Straight use)	(50% K <sub>2</sub> O)	3 (0.6)	4 (0.6)	8 (1.0)	6 (0.9)	3 (0.7)	5 (0.8)
4. NPK complex fertilisers (Imported)	(various grades)	296 (17.3)	178 (8.6)	22 (0.9)	156 (9.3)	107 (7.3)	56 (2.8)
K <sub>2</sub> O Through straight fertilisers		169 (66.2)	203 (65.1)	290 (76.0)	199 (62.7)	119 (52.5)	215 (67.3)
Through complex fertilisers		87 (33.8)	169 (34.9)	91 (24.0)	119 (37.3)	108 (47.5)	105 (32.7)
Total: K <sub>2</sub> O		256 (100.0)	312 (100.0)	381 (100.0)	318 (100.0)	227 (100.0)	320 (100.0)

\* Estimated.

( ) Figure in bracket represents contribution of a particular fertiliser to the total nutrient taken as 100 (Vertical)

1 Includes

7,584 tonnes of grade 18-17-17  
 4,213 " do " 17-17-17  
 72 " do " 17-17-16 and  
 967 " do " 13-13-20

and 26,000 tonnes of grade 17-17-17  
 30,000 " do " 15-15-15  
 56,000 tonnes.

besides 94609 " do " (Gradewise break up in respect of some NPK fertilizers is not available. These are assumed to be grade 15-15-15) & K<sub>2</sub>O  
 107,470 tonnes of various grades of NPK fertilizers - 16.3 thousand tonnes of K<sub>2</sub>O

## STATEWISE DISTRIBUTION OF NITROGEN DURING

1971-72 TO 1975-76 & 1976-77 (EXPECTED) ( '000 tonnes of N<sub>2</sub>)

Zone/State	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77
<u>South</u>	468	470	453	599	765	1000
Andhra Pradesh	131	170	155	285	376	
Kerala	68	26	32	33	44	
Karnataka	74	82	85	114	122	
Tamil Nadu	148	174	161	152	210	
Pondicherry	1	3	2	2	5	
UPASI	5	8	5	a	-	
Coffee Board	8	8	7	8	4	
Rubber Board	-	-	5	a	1	
Cardamom Board	-	a	a	-	1	
Tea Board	-	-	-	3	2	
<u>West</u>	225	230	248	229	258	300
Gujarat	171	116	128	99	108	
Maharashtra	54	114	113	128	148	
Goa	-	a	2	2	2	
Dadra & Nagar Haveli	-	a	a	a	a	
<u>Central</u>	390	469	442	457	373	450
Madhya Pradesh	66	85	74	86	51	
Rajasthan	43	51	58	50	49	
Uttar Pradesh	276	330	309	319	271	
Delhi	5	3	1	2	2	
<u>North</u>	273	319	274	295	263	350
Haryana	70	81	78	64	73	
Himachal Pradesh	4	3	3	6	5	
Jammu & Kashmir	4	15	7	7	9	
Punjab	196	220	185	217	176	
Chandigarh	-	a	i	1	a	
<u>East</u>	178	205	193	265	250	300
Assam	17	18	6	5	2	
Bihar	73	74	69	105	112	
Orissa	27	42	40	40	29	
West Bengal	39	54	55	84	82	
Manipur	-	1	a	2	2	
Tripura	-	1	1	1	a	
Nagaland	-	-	a	a	a	
Mizoram	-	a	-	a	a	
Andamans	-	-	-	a	a	
Tea N.S. India	3	14	20	23	23	
Meghalaya	-	-	1	2	a	
<b>Total</b>	<b>1806</b>	<b>1897</b>	<b>1609</b>	<b>1845</b>	<b>1902</b>	<b>2400</b>
<b>Central</b>	<b>113</b>	<b>45</b>	<b>4</b>	<b>"</b>	<b>"</b>	<b>"</b>
<b>All India</b>	<b>1806</b>	<b>1897</b>	<b>1609</b>	<b>1845</b>	<b>1902</b>	<b>2400</b>

a Less than 500 tonnes.

@ Includes 106 tonnes of N supplied to Bihar.

Note: Total totals for 1971-72 include quantities supplied to the States in the Zone whose break up is not available.

Source: Annual Review 1976-76 (FAI).

## STATEWISE DISTRIBUTION OF PHOSPHATES DURING

1971-72, 1972-73 &amp; 1973-77 (ESTIMATED)

( '000 tonnes of P<sub>2</sub>O<sub>5</sub>)

Zone/State	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77
<u>South</u>	113	183	208	207	170	200
Andhra Pradesh	45	72	88	87	82	
Kerala	11	12	15	15	12	
Karnataka	20	42	33	46	34	
Tamil Nadu	33	56	70	56	40	
UPASI	-	-	-	a	-	
Pondicherry	a	1	1	1	2	
Tea Board	-	-	-	-	a	
Coffee Board	-	-	a	2	1	
Rubber Board	-	-	-	-	a	
<u>West</u>	121	86	110	68	62	110
Gujarat	81	49	53	36	27	
Maharashtra	37	37	51	31	34	
Goa	3	a	a	1	1	
Dadra & Nagar- Haveli	-	a	a	a	a	
<u>Central</u>	82	102	96	93	56	
Madhya Pradesh	32	30	35	25	19	
Rajasthan	5	15	11	6	10	
Uttar Pradesh	45	57	49	62	26	
Delhi	a	a	a	a	1	
<u>North</u>	60	53	64	72	29	60
Haryana	9	5	14	7	6	
Himachal Pradesh	a	a	a	a	a	
Jammu & Kashmir	-	1	a	2	1	
Punjab	51	47	50	63	22	
Chandigarh	-	a	-	a	a	
<u>East</u>	32	36	43	46	50	80
Assam	1	2	2	1	1	
Bihar	17	9	11	18	27	
Orissa	1	6	12	9	5	
West Bengal	12	18	17	17	17	
Meghalaya	-	1	a	a	-	
Manipur	a	a	a	a	a	
Tripura	a	a	1	a	a	
Nagaland	a	-	a	a	-	
Andamans	-	a	-	a	-	
Mizoram	-	-	-	-	a	
<u>TOTAL</u>	495	490	521	486	387	540
<u>Others</u>	60	7	0	0	20	20
<u>Used in mixtures</u>	-	27	21	24	2	10
<u>All India</u>	474	534	542	487	387	570

\* Estimated.

a Less than 500 tonnes.

@ Includes 73 tonnes of P<sub>2</sub>O<sub>5</sub> supplied to Britain.

Notes: Zonal totals for 1971-72 include quantities supplied to the States in the zone whose break up is not available

Source: Annual Report 1975-76 (FAI).

STATEWISE DISTRIBUTION OF POTASH DURING  
1971-72 TO 1975-76 & 1976-77 (EXPECTED)

( '000 tonnes of K<sub>2</sub>O )

Zone/State	1971-72	1972-73	1973-74	1974-75	1975-76	1976-77
<u>South</u>	110	137	127	84	65	90
Andhra Pradesh	11	18	24	16	9	
Kerala	22	21	29	21	20	
Karnataka	34	16	27	22	12	
Tamil Nadu	50	82	46	25		
Pondicherry	a	a	1	a	24	
Coffee Board	-	-	-	-	a	
Tea Board	-	-	-	-	a	
<u>West</u>	71	69	50	34	27	45
Gujarat	7	10	20	10	4	
Maharashtra	41	59	29	23	23	
Goa	a	a	1	1	a	
<u>Central</u>	35	35	48	45	10	30
Madhya Pradesh	7	4	5	5	1	
Rajasthan	1	4	5	2	1	
Uttar Pradesh	27	27	38	38	3	
Delhi	-	a	a	a	a	
<u>North</u>	8	11	22	22	7	15
Haryana	1	1	4	2	1	
Himachal Pradesh	a	a	-	a	a	
Jammu & Kashmir	a	a	a	-	a	
Punjab	7	10	18	20	6	
<u>East</u>	30	46	46	43	27	40
Assam	4	12	7	6	7	
Bihar	7	9	9	12	5	
Orissa	2	5	8	6	4	
West Bengal	17	20	22	19	11	
Madipur	-	a	a	a	-	
Tripura	-	a	a	-	a	
Nagaland	-	a	-	a	-	
Andamans	-	a	a	a	-	
<b>Total</b>	<b>294</b>	<b>293</b>	<b>293</b>	<b>226</b>	<b>296</b>	<b>220</b>
Of which	2	14	380	890	310	1000
Mineral	292	312	331	317	227	320

\* Estimated.

a Less than 500 tonnes.

@ Quantities of K<sub>2</sub>O supplied to NPK complex fertiliser manufacturers are not included in the respective State totals.

Source: Annual Report 1975-76 (FAI).



STATE-WISE CONSUMPTION OF FERTILIZERS

(During 1974-75 &amp; 1975-76)

'000' tonnes

State/Zone	1974-75				1975-76			
	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Total	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Total
<u>Central</u>	440	89	42	571	530	101	44	675
M.P.	61	31	7	99	74	23	6	103
Rajasthan	48	9	2	59	64	12	2	78
U.P.	329	49	33	411	389	60	36	485
Delhi	2	a	b	2	3	1	b	4
<u>Eastern</u>	216	47	40	303	242	47	34	323
Assam	4	1	2	7	4	1	1	6
Bihar	89	16	12	117	113	14	8	135
Orissa	34	9	6	49	35	7	5	48
West Bengal	86	19	20	125	86	24	20	130
Manipur	1	a	b	2	1	a	b	1
Tripura	1	b	b	1	1	b	b	1
Nagaland	b	b	b	b	b	b	b	b
Meghalaya	1	a	b	2	1	a	b	2
<u>Northern</u>	274	55	18	347	347	68	14	429
Haryana	66	7	2	75	85	8	2	96
Himachal Pradesh	6	2	1	9	6	2	1	9
J & K	6	1	a	8	9	1	a	10
Punjab	195	45	14	254	244	57	10	311
Chandigarh	1	b	b	1	2	a	b	3
<u>Southern</u>	538	178	139	855	701	173	119	993
Andhra Pradesh	228	54	24	306	321	66	25	412
Karnataka	130	54	41	225	137	43	38	218
Kerala	32	17	18	67	32	15	11	58
T.N.	145	52	47	244	208	48	44	300
Pondicherry	3	1	1	5	3	1	1	5
<u>Western</u>	260	100	97	457	284	75	62	421
Gujarat	98	38	13	149	108	35	7	150
Maharashtra	159	61	83	303	173	38	54	265
Goa	3	1	1	5	3	2	1	6
D&N Haveli	b	b	b	b	b	b	b	b
Others (for plantation)	38	3	-	41	45	3	5	53
All India	1766	472	336	2574	2149	467	273	2894

a - Less than 500 tonnes but more than 250 tonnes.

b - Less than 250 tonnes.

Source - Ministry of Agriculture

STATE-WISE CONSUMPTION OF FERTILIZER NUTRIENTS  
IN AGRICULTURAL LAND DURING 1974-75 & 1975-76

(Kg./hectare)

Zone/State	1974 - 75				1975 - 76			
	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Total	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Total
1.	2.	3.	4.	5.	6.	7.	8.	9.
<u>South</u>	14.12	4.70	3.65	22.47	13.40	4.57	3.25	26.22
Andhra Pradesh	16.33	3.37	1.72	21.92	23.00	4.30	1.79	29.59
Karnataka	10.03	4.19	3.30	18.77	10.63	3.33	2.95	16.91
Kerala	10.30	5.47	5.79	21.56	10.62	4.33	5.47	20.92
Tamil Nadu	17.90	6.42	5.30	30.12	25.66	5.33	5.43	37.02
Pondichery	52.63	17.54	17.54	37.71	56.14	17.54	12.23	35.96
<u>West</u>	8.53	3.23	3.13	14.99	9.23	2.46	2.03	13.77
Gujarat	3.93	3.55	1.13	13.66	9.34	3.19	0.64	13.67
Maharashtra	9.22	3.15	4.29	15.66	3.94	1.96	2.79	13.69
Goa	21.27	7.09	7.09	35.45	19.15	12.06	9.93	41.14
Dadra, Nagar Haveli	3.57	0.36	1.43	5.36	N.A.	N.A.	N.A.	N.A.
<u>Central</u>	6.53	1.32	0.62	8.47	7.39	1.50	0.64	10.03
Madhya Pradesh	2.52	1.28	0.29	4.09	3.06	1.16	0.25	4.47
Uttar Pradesh	13.51	2.01	1.35	16.87	15.97	2.45	1.48	19.91
Rajasthan	2.53	0.48	0.11	3.17	3.44	0.65	0.11	4.20
Delhi	14.29	4.20	0.84	19.33	30.25	6.72	0.81	37.81
<u>North</u>	19.55	3.91	1.28	24.74	24.67	4.81	1.00	30.51
Haryana	12.95	1.37	0.39	14.71	16.87	1.57	0.39	18.83
Himachal Pradesh	2.82	1.41	0.94	5.17	2.82	0.94	0.47	4.23
Jammu & Kashmir	6.33	0.90	0.45	7.68	8.14	0.90	0.45	9.49
Punjab	34.19	7.85	2.44	44.48	42.56	9.94	1.74	54.24
<u>East</u>	6.87	1.46	1.27	9.60	7.67	1.49	1.08	10.24
Assam	1.21	0.30	0.30	1.81	0.91	0.30	0.30	1.51
Bihar	8.14	1.45	1.09	10.68	10.22	1.27	0.72	12.21
Orissa	4.15	1.10	0.73	5.98	4.39	0.85	0.61	5.85
West Bengal	10.92	2.54	2.54	16.00	10.92	3.05	2.54	16.51
Manipur	8.19	0.53	0.53	9.35	8.77	0.58	0.35	9.70
Tripura	1.39	0.21	0.21	2.31	N.A.	N.A.	N.A.	N.A.
Nagaland	N.A.	N.A.	N.A.	N.A.	25.40	14.29	4.76	44.45
Meghalaya	7.77	3.11	0.52	11.40	6.74	2.07	0.52	9.33
All-India	9.73	2.60	1.85	14.18	11.83	2.57	1.53	15.93

N.A. : Not Available.

Source: Annual Review 1975-76 (FAI)

CONSUMPTION OF FERTILIZERS PER UNIT OF CROPPED AREA  
DURING 1973-74 AND 1974-75  
(Kg./hectare)

Zone/State	1973-74				1974-75			
	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Total	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	Total
<u>Central</u>	7.8	2.4	1.0	11.2	7.2	1.5	0.7	9.4
Madhya Pradesh	4.2	2.1	0.4	6.7	2.9	1.5	0.4	4.8
Rajasthan	3.4	0.8	0.2	4.4	2.8	0.5	0.1	3.4
Uttar Pradesh	14.3	3.8	2.2	20.3	14.3	2.1	1.4	17.8
Delhi	21.4	4.2	0.8	26.4	14.4	4.2	0.8	19.4
<u>East</u>	6.2	1.7	1.7	9.6	7.5	1.7	1.4	10.6
Assam	1.9	0.2	0.7	2.8	1.4	0.4	0.5	2.3
Bihar	6.6	1.5	1.0	9.1	8.3	1.5	1.1	10.9
Orissa	6.2	1.7	1.1	9.0	4.9	1.3	0.9	7.1
West Bengal	7.4	2.5	3.7	13.6	11.6	3.0	2.9	17.5
Mizoram	10.2	2.0	0.7	12.9	3.5	0.7	0.7	4.9
Meghalaya	7.3	3.1	1.6	12.0	7.8	3.1	0.5	11.4
Tripura	3.1	0.8	0.3	4.2	2.5	0.3	0.5	3.3
Nagaland	0.6	0.5	0.5	1.6	N.A.	N.A.	N.A.	N.A.
<u>North</u>	27.7	7.5	2.4	37.6	23.1	4.6	1.5	29.2
Haryana	18.5	3.3	0.9	22.7	13.1	1.4	0.5	15.0
Himachal Pradesh	4.7	1.2	1.4	7.3	6.3	2.9	1.9	11.1
Jammu & Kashmir	11.2	3.4	1.2	16.4	8.4	1.5	0.5	10.4
Punjab	41.4	12.3	4.0	57.7	35.7	8.2	2.4	46.3
<u>South</u>	15.1	6.6	4.7	26.4	15.3	5.4	4.1	24.8
Andhra Pradesh	13.4	6.5	2.3	22.2	18.0	4.3	1.9	24.2
Karnataka	9.8	4.4	3.6	17.8	11.3	4.3	4.4	20.0
Kerala	11.7	7.6	8.3	27.6	10.0	5.2	6.1	21.3
Tamil Nadu	26.4	9.5	8.9	44.8	19.6	7.5	6.5	33.6
Pondicherry	54.5	27.3	20.0	101.8	49.1	23.6	18.2	90.9
<u>West</u>	10.4	4.9	2.0	17.3	9.0	3.5	3.5	16.0
Gujarat	13.9	6.1	1.3	21.3	8.8	3.5	1.3	13.6
Maharashtra	8.4	4.1	2.4	14.9	9.1	3.5	4.7	17.3
Goa, Daman & Diu	11.5	7.2	5.8	24.5	18.0	5.0	6.5	29.5
All India	11.2	4.0	2.2	17.4	10.8	2.9	2.1	15.8

N.A. Not available.

Source: Fertilizer Statistics 1974-75. (FAI)

State/ U.P. H 2 1971-72 to 1975-76

1. Average Production	1971-72	1972-73	1973-74	1974-75	1975-76	1971-72	1972-73	1973-74	1974-75	1975-76	1971-72	1972-73	1973-74	1974-75	1975-76	1971-72	1972-73	1973-74	1974-75	1975-76	
2. Area	100.74	79.94	89.53	94.14	115.81	42.09	54.49	72.02	32.91	29.48	2.00	4.00	1.17	1.34	1.74	2.00	4.00	1.17	1.34	1.74	
	192.55	121.82	141.85	116.71	155.03	9.52	15.39	13.24	15.33	9.79	3.65	5.50	2.35	1.50	3.21	1.05	1.10	1.05	1.05	0.29	
	91.83	50.15	60.00	107.66	201.00	2.90	2.65	1.30	2.51	1.14	2.90	2.65	1.30	2.51	1.05	1.10	1.05	1.05	0.29	0.29	
	17.07	17.07	17.07	17.07	17.07	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55	0.55
	32.10	37.10	40.10	22.10	37.00	1.05	1.00	0.85	1.05	0.53	8.10	12.10	7.00	9.50	11.00	3.90	6.00	7.00	7.70	6.00	6.00
	17.00	17.00	17.00	17.00	17.00	6.71	63.00	45.00	71.00	100.00	6.71	63.00	45.00	71.00	100.00	3.90	6.00	7.00	7.70	6.00	6.00
	74.15	73.07	82.62	57.04	65.13	2.00	1.90	1.80	1.80	1.31	2.00	1.90	1.80	1.80	2.00	2.00	2.00	2.00	2.00	2.00	2.00
	27	27	27	27	27	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
	210.95	210.95	210.95	210.95	210.95	6.15	10.25	7.05	6.62	5.67	6.15	10.25	7.05	6.62	5.67	6.15	10.25	7.05	6.62	5.67	6.15
	300.95	300.95	300.95	300.95	300.95	108.26	110.00	90.00	100.00	130.95	108.26	110.00	90.00	100.00	130.95	108.26	110.00	90.00	100.00	130.95	108.26
	300.95	300.95	300.95	300.95	300.95	2.35	2.07	2.10	2.07	2.07	2.35	2.07	2.10	2.07	2.07	2.35	2.07	2.10	2.07	2.07	2.35
	300.95	300.95	300.95	300.95	300.95	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
	300.95	300.95	300.95	300.95	300.95	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
	300.95	300.95	300.95	300.95	300.95	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
4. Chemical	1971-72	1972-73	1973-74	1974-75	1975-76	1971-72	1972-73	1973-74	1974-75	1975-76	1971-72	1972-73	1973-74	1974-75	1975-76	1971-72	1972-73	1973-74	1974-75	1975-76	
	51.52	25.84	83.50	62.64	31.30	1.93	96.07	111.16	61.14	182.37	51.52	25.84	83.50	62.64	31.30	1.93	96.07	111.16	61.14	182.37	

(Thousand Tonnes)

State/	N	P	K	H+2HK	R	P	K	H	F	K	N+PK	
1975-74	25.00	7.56	3.44	34.70	19.69	4.63	4.03	2.37	43.59	11.99	7.49	63.07
1974-75	1.01	3.23	2.83	21.28	19.20	5.80	3.10	26.10	34.31	9.03	5.99	42.32
1973-75	1.06	4.01	2.93	22.18	20.42	3.20	1.25	23.55	36.00	7.21	4.52	47.73
<b>15. Pondicherry</b>												
1971-72	1.91	1.37	0.84	4.12	1.30	0.51	0.43	2.24	3.21	1.03	1.27	6.36
1972-73	1.87	1.10	0.74	3.71	1.62	0.92	0.43	2.97	3.49	2.02	1.17	6.58
1973-74	2.09	0.95	0.85	3.90	0.72	0.61	0.25	1.78	3.01	1.55	1.11	5.68
1974-75	1.55	0.74	0.50	2.79	1.12	0.49	0.49	2.10	2.67	1.23	0.99	4.89
1975-76	1.77	0.45	0.31	2.63	1.35	0.45	0.59	2.17	3.20	0.90	0.70	4.80
<b>16. Poojab</b>												
1971-72	69.74	7.65	3.07	80.46	154.72	45.22	9.12	209.06	224.45	52.87	12.19	289.52
1972-73	74.35	11.60	3.01	88.99	166.04	56.44	15.49	296.87	239.32	68.04	15.50	325.25
1973-74	85.00	15.00	5.00	105.00	152.00	67.00	18.00	228.00	237.00	73.00	25.00	335.00
1974-75	55.53	7.57	5.15	68.25	146.00	37.00	9.00	185.00	195.53	44.37	14.15	254.25
1975-76	74.29	6.71	2.30	83.30	170.00	50.00	8.00	223.00	244.29	56.71	10.30	311.30
<b>17. Rajasthan</b>												
1971-72	19.41	3.02	0.87	23.30	26.61	6.33	2.26	35.20	46.02	9.35	3.13	50.50
1972-73	15.00	2.00	0.60	17.60	32.90	4.60	2.78	40.28	47.90	6.60	3.33	57.83
1973-74	19.27	5.63	1.53	26.43	37.10	7.85	2.60	47.65	56.47	13.48	4.15	74.63
1974-75	17.35	2.95	0.81	21.11	30.29	5.23	1.25	37.25	47.64	8.78	2.04	59.46
1975-76	16.89	4.24	0.94	23.47	45.00	8.00	1.20	54.20	63.67	12.24	1.74	77.67
<b>18. Madhya Pradesh</b>												
1971-72	89.00	31.00	27.00	147.00	125.00	40.00	34.00	199.00	214.00	71.00	61.00	346.00
1972-73	84.76	40.03	35.55	160.64	112.09	31.42	27.99	171.50	196.85	71.45	63.04	338.14
1973-74	94.00	33.00	29.00	156.00	108.00	38.00	35.00	161.00	202.00	71.00	68.00	349.00
1974-75	62.93	26.00	25.43	115.42	82.24	24.20	21.61	128.05	145.23	52.20	47.04	244.47
1975-76	69.03	19.79	18.80	107.67	138.52	28.61	25.19	192.32	207.60	48.40	43.99	299.99

DATE	K	P	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
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19. Other Assets

1971-72	124.00	15.00	10.00	149.00	214.00	57.00	43.00	514.00	333.00	70.00	55.00	403.00
1972-73	103.44	13.28	5.25	131.97	205.31	71.90	65.41	373.58	351.75	85.18	54.82	506.25
1973-74	121.14	13.81	10.89	151.83	217.53	66.73	33.11	313.41	282.53	86.60	50.05	465.24
1974-75	124.54	13.39	12.08	155.64	214.34	23.33	20.54	221.80	320.10	49.37	28.83	410.33
1975-76	103.43	9.84	5.88	125.15	200.00	50.60	30.00	360.00	399.15	59.84	33.03	425.15

20. Total Assets

1971-72	27.00	4.25	5.00	36.51	28.81	13.30	16.90	59.04	55.67	17.55	21.95	95.25
1972-73	15.67	4.05	5.00	28.72	31.75	12.36	14.16	63.27	32.42	12.11	23.16	91.00
1973-74	27.00	6.55	5.00	35.63	29.00	11.87	25.61	68.60	54.00	19.12	28.99	97.11
1974-75	34.49	7.85	5.82	47.47	51.25	11.50	15.16	77.97	85.74	19.42	20.28	127.11
1975-76	30.89	6.50	4.00	51.47	43.00	15.27	15.67	70.20	65.95	25.77	19.55	120.67

21. Liabilities

1971-72	0.62	0.37	0.19	1.18	0.39	0.40	0.11	1.10	1.21	0.77	0.50	2.28
1972-73	0.70	0.46	0.20	1.36	0.51	0.40	0.16	1.07	1.21	0.60	0.35	2.43
1973-74	1.00	0.67	0.33	2.05	0.56	0.34	0.39	1.29	1.50	1.01	0.77	3.34
1974-75	1.19	0.24	0.37	1.80	1.32	0.43	0.50	2.24	2.51	0.73	0.90	4.14
1975-76	1.23	0.91	0.62	2.98	1.30	0.60	0.80	2.90	2.55	1.71	1.12	5.73

22. Total Liabilities

1971-72	0.45	0.27	0.04	0.77	0.31	0.16	0.03	0.30	0.77	0.45	0.07	1.27
1972-73	0.57	0.24	0.08	0.89	0.39	0.47	0.17	0.33	1.10	0.31	0.23	1.72
1973-74	0.94	0.15	0.20	1.19	0.23	0.14	0.10	0.52	1.12	0.29	0.30	1.71
1974-75	0.68	0.03	0.02	0.73	0.16	0.05	0.14	0.23	0.64	0.11	0.06	1.01
1975-76	0.18	0.04	0.05	0.27	0.44	0.44	0.14	0.23	0.64	0.11	0.06	1.01

23. Total Liabilities and Equity

1971-72	1.00	0.60	0.30	1.90	0.48	0.54	0.03	0.35	1.49	0.24	0.55	2.75
1972-73	1.00	0.60	0.30	1.90	0.48	0.54	0.03	0.35	1.49	0.24	0.55	2.75

**(Agricultural Income)**

Year	1973-74	1974-75	1975-76	Total	1973-74	1974-75	1975-76	Total
1973-74	0.65	0.24	0.01	1.11	0.86	0.34	0.13	1.33
1974-75	0.35	0.13	0.01	0.49	0.80	0.20	0.05	1.05
1975-76	0.28	0.15	0.03	0.47	0.95	0.23	0.06	1.24

**24. Nandgaon**

1971-72	-	0.01	0.03	0.01	0.02	0.02	-	0.02	0.02	0.03	0.02	0.05
1972-73	0.02	0.01	0.03	0.01	0.01	0.01	-	0.02	0.02	0.03	0.02	0.05
1973-74	0.02	0.02	0.05	0.02	0.02	0.01	0.01	0.04	0.04	0.03	0.03	0.10
1974-75	0.04	0.01	0.06	0.02	0.02	0.01	0.01	0.05	0.05	0.02	0.01	0.07
1975-76	0.05	0.01	0.06	0.02	0.02	0.02	0.01	0.05	0.05	0.02	0.01	0.11

**25. Dalga Nagar Haveli**

1971-72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1972-73	-	-	-	-	-	-	-	-	-	-	-	-
1973-74	0.26	0.03	0.01	0.30	0.25	0.05	0.05	0.35	0.51	0.08	0.01	0.55
1974-75	0.05	-	-	0.05	0.03	0.01	0.01	0.05	0.08	0.01	0.01	0.10
1975-76	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

**26. Chanda Nara**

1971-72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1972-73	"	"	"	"	"	"	"	"	"	"	"	"
1973-74	0.45	0.05	0.04	0.54	0.97	0.13	0.12	1.32	1.42	0.18	0.15	1.75
1974-75	0.93	0.11	0.01	1.10	1.12	0.18	0.02	1.32	1.12	0.18	0.02	1.32
1975-76	1.11	0.16	0.01	1.28	1.13	0.19	0.03	1.35	2.24	0.35	0.04	2.53

**TOTAL**

1971-72	735.01	235.24	119.02	1090.27	1062.00	323.00	181.00	1555.00	1792.01	558.24	350.02	2656.27
1972-73	705.02	255.72	149.54	1110.38	1125.29	347.59	199.91	1501.79	1553.01	561.24	347.59	2167.99
1973-74	737.13	276.22	141.29	121.66	1071.89	370.23	213.53	1512.71	1822.02	643.71	359.82	2435.55
1974-75	752.49	228.74	170.23	1150.25	1025.20	203.82	155.95	1177.97	1755.09	471.31	376.02	2573.50
1975-76	742.97	162.25	101.41	1006.63	1405.64	301.52	175.94	1277.10	2442.61	466.77	278.55	2893.75

NOTE: Figures of Rabi 1975-76 have been estimated and are hence subject to revision.

Source: Ministry of Agriculture.

-: 89 :-  
IMPORTS OF FERTILIZERS  
(IN '000' TONNES)  
 DURING 1952-53 to 1975-76

(Qty. '000' tonnes)

Years	Quantity			Total value of imports (Rs. Lakh.)
	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	
1952-53	44	-	3	45.60
1953-54	19	-	7	25.20
1954-55	20	-	11	30.20
1955-56	53	-	10	75.30
1956-57	57	-	15	77.50
1957-58	110	-	13	158.80
1958-59	97	-	23	113.10
1959-60	142	4	33	162.90
1960-61	399	-	20	121.76
1961-62	307	-	75	141.08
1962-63	244	10	41	256.06
1963-64	223	13	40	187.14
1964-65	232	12	57	220.64
1965-66	326	14	73	411.88
1966-67	632	148	118	1238.23
1967-68	867	349	270	1933.05
1968-69	844	138	213	1629.23
1969-70	667	94	120	1467.68
1970-71	447	32	120	767.85
1971-72	401	248	268	899.07
1972-73	665	204	325	1212.62
1973-74	659	213	370	1767.52
1974-75	884	286	437	5991.34
1975-76	996	361	278	7227.65

N = Nitrogen

P<sub>2</sub>O<sub>5</sub> = Phosphate

K<sub>2</sub>O = Potash

Source:- Ministry of Agriculture.



PRODUCT-WISE TRENDS OF FERTILIZERS  
DURING 1969-70 to 1975-76

Q = 1000 tonnes

V = Rs. million

Products	1969-70		1970-71		1971-72		1972-73		1973-74		1974-75		1975-76	
	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V	Q	V
Amn. Sulphate	790	262.8	83	27.5	186	31.19	128	27.5	75	39.0	235	261.52	96	143.67
Urea	938	620.7	780	458.9	550	249.35	1008	507.9	1034	737.1	1244	2711.67	1545	3660.38
Amn. Chloride	-	-	-	-	-	-	-	-	-	-	30	48.73	30	47.62
Amn. Nitro-phosphate	7	3.3	17	9.7	-	-	56	31.9	240	202.0	183	323.88	-	-
Amn. Sulphate-Nitrate	-	-	25	10.3	32	11.37	-	-	2	1.8	14	17.19	10	17.62
Calc. Amn. Nitrate	83	35.5	280	108.8	317	113.69	318	121.9	163	105.6	360	559.00	176	273.96
Amn. Phosphate	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dia-Amn. Phosphate	125	66.2	12	7.1	353	200.03	348	273.8	340	359.8	436	982.14	536	1477.60
Basic Slag	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Roheisen Phosphate	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulphate of Potash	4	2.1	24	18.9	-	-	6	3.2	5	3.0	10	11.56	-	-
Muriate of Potash (Pool)	27	7.0	135	52.0	362	110.40	504	160.2	607	275.0	649	467.41	390	327.35
Muriate of Potash (SIC/AMIC)	125	45.4	22	8.7	-	-	-	-	-	-	-	-	-	-
N.P.K. Mixture	184	124.7	121	65.9	289	183.64	119	76.6	55	44.2	285	593.42	618	1271.45
M.A.P.	-	-	-	-	-	-	12	9.6	-	-	-	-	-	-
T.S.P.	-	-	-	-	-	-	-	-	-	-	5	14.77	-	-
<b>TOTAL</b>	<b>2233</b>	<b>1167.7</b>	<b>1499</b>	<b>767.8</b>	<b>2009</b>	<b>899.7</b>	<b>2499</b>	<b>1212.6</b>	<b>2541</b>	<b>1767.5</b>	<b>3451</b>	<b>5591.34</b>	<b>3401</b>	<b>7227.65</b>

Source:- Ministry of Agriculture.

- 97 -  
Fertilizer Prices (Inclusive of Excise Duty But Exclusive of  
(Material P/tonnes effective on)

19.4-  
20.4.

Product	(% of N/P/A)	17.4.59		18.5.71		11.9.71		13.5.71		27.3.72		25.1.74	
		Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool
1. Urea	46/0/0	860	860	945(1)	945(1)	925	925	950	953	959	959	1050	1050
2.	45/0/0	841	841	924(1)	924(1)	904	904	940	940	940	940	1050	1050
2. AS	21/0/0												
	50 Kg. Packed	513	513	550(1)	550(1)	540	540	560	560	560	560	600	600
	100 Kg. Packed	502	502	539(1)	539(1)	529	529	549	549	549	549	590	590
3. CAN	25/0/0	510	510	545(1)	545(1)	545	545	565	565	565	565	615	615
	26/0/0	-	-	575(1)	575(1)	575	575	594	594	594	594	645	645
	27/0/0	-	-	-	-	-	-	-	-	-	-	-	-
	28/0/0	-	-	-	-	-	-	-	-	-	-	-	-
4. ASW	26/0/0	577	577	626(1)	626(1)	626	626	626	626	650	626	715(7)	775(9)
5. A.Chl.	25/0/0	540	505	540	539	570(2)	539	570	539	570	559	760(7)	559
6. MOP	0/0/60	-	491	-	534	-	534	-	554	-	554	-	680
7. SOP	0/0/48	-	655	-	655	-	731	-	800	-	800	-	800
8. Pelophos	0/18/0	-	-	-	-	-	-	-	-	-	-	540	-
9. TSP	0/46/0*	875	-	875	-	1106	-	1152(4)	-	1272(6)	-	1272	-
10. SSP	0/16/0*	312	-	300	-	302	-	291	-	291	-	627(10)	-
11. APS	16/20/0	865	-	865	-	955(2)	-	980(5)	-	930	-	1500	-
	20/20/0	-	-	-	-	-	-	-	-	1035	-	1400(8)	1200
	19/20/0	-	-	-	-	-	-	-	-	-	-	-	-
	18/9/0	-	-	-	-	-	-	-	-	-	-	-	-
	19.5/19.5/0	-	-	-	-	-	-	-	-	-	-	-	-
12. MAP	18/46/0	1095	1095	1217	1217	1345(3)	1217	1345	1246	1402	1245	1402	1335
13. MAP	11/55/0	-	-	-	-	-	-	-	1325	-	1325	-	1325

(1) was 17.4.59. (2) 11.9.71. (3) 13.5.71. (4) 1.1.72. (5) 27.3.72. (6) 25.1.73  
 (7) 14.10.73. (8) 10.10.75. (9) 25.1.74. (10) 25.1.74.

\* Ex-factory price only upto 31.5.74.

Contd.

Product	(% of N/P/R)	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool
14. AWP	20/20/0	-	816	900	880	850	900	909	972	909	972	972	1200
	23/23/0	-	-	-	-	-	-	-	-	-	-	-	1205(3)
	26/14/0	-	-	-	-	-	-	-	-	-	-	-	-
	24/24/0	-	-	-	-	-	-	-	-	-	-	-	-
	15/15/15	-	840	870	912	912	870	942	942	942	1220	1220	1375
15. UAP	23/28/0	-	-	1252(1)	-	-	1312	-	1493(2)	-	1493	1493	-
	14/35/14	-	-	-	-	-	1350	-	1493(2)	-	1493	1493	-
16. NPK	14/14/14	-	775	857	830	850	857	859	857	859	857	857	859
	14/28/14	-	1060	-	1137	-	-	1170	1215	1170	1430	1430	1550
	10/26/26	-	-	-	-	1026	-	1161	-	1161	-	-	1161
	12/32/16	-	-	-	-	1148	-	1177	-	1177	-	-	1177
	14/36/12	-	-	-	-	1245	-	1271	-	1271	-	-	1271
	13/13/13	-	-	-	-	782	-	782	-	782	-	-	782
	12/24/12	-	-	915	-	915	-	915	-	915	-	-	1345
	11/11/11	-	-	-	-	-	-	-	-	-	-	-	-
	17/17/17	-	-	-	-	-	-	-	1100	-	-	-	-
	17/8/9	-	-	-	-	-	-	-	-	-	-	-	-
	20/10/10	-	-	-	-	-	-	-	-	-	-	-	-
	13/13/20	-	-	-	-	-	-	-	-	-	-	-	-
	17/17/16	-	-	-	-	-	-	-	-	-	-	-	-
	19/19/19	-	-	-	-	-	-	-	-	-	-	-	-
	22/22/11	-	-	1126	-	-	1126	-	1126	-	1126	1126	-

w.e.f. 1.4.71. (1), 1.9.73(2)(3) 1385 w.e.f. 10.10.73 and 1205 w.e.f. 1.1.74.

Product (% of N/P/K)	1.5.74-31.3.75		1.4.75-17.7.75		18.7.75-30.11.75		1.12.75-15.3.76		16.3.76-19.4.76		20.4.76	
	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool
1. Urea 46/0/0 45/0/0	2000 1960	2000 1960	2000 1960	2000 1960	1850 1810	1850 1810	1850 1810	1350 1810	1750 1710	1750 1710	1750 1710	1750 1710
2. AS 21/0/0 100Kg. Packed 50 Kg. Packed	925 935	925 935	925 935	925 935	925 935	925 935	925 935	925 935	925 935	925 935	925 935	925 935
3. CaN 25/0/0 26/0/0 27/0/0 28/0/0	1095 1145 1185 1230	1095 1145 1185 1230	1095 1145 1185 1230	1095 1145 1185 1230	1015 1060 1100 1140	1015 1060 1100 1140	1015 1060 1100 1140	1015 1060 1100 1140	1015 1060 1100 1140	1015 1060 1100 1140	1015 1060 1100 1140	1015 1060 1100 1140
4. ASN 26/0/0	1085(2)	1145	1085	1145	1065	1060	1085	1060	1085	1060	1085	1060
5. A. Chl. 25/0/0	1415	1095	1415	1095	1385(4)	995	1385	995	1385	995	1385	995
6. MOP 0/0/60	-	1230	-	1230	-	1160	-	1095	-	910	-	910
7. SOP 0/0/43	-	1565	-	1555	-	1510	-	1400	-	1400	-	1400
8. Fephos 0/18/0	825	-	825	-	730	-	730	-	730	-	730	-
9. TSP 0/46/0	2700(2)	-	2700	2905	2975	2710	-	1875	-	1875	-	1875
10. SSP 0/10/0	907(2)	-	1000(3)	-	953	-	846	-	632	-	576	-
11. ASP 16/20/0	2300(1)	-	2525	-	247(5) (2444)	-	2230 (2146)	-	1930 (1840)	-	1870 (1840)	-
20/20/0	2500(1)	1855	2750	1855	2650(5)	1780	2450	1660	2150	1660	2000	1660
19/20/0	-	2520	-	2520	-	2470	-	2160	-	2160	4	2160
18/9/0	-	-	-	-	1528	-	1528	-	1380	-	1380	-
19.5/19.5/0	-	-	-	-	2200	-	2194	-	1890	-	1890	-
12. DAP 18/46/0	3005	3005	3005	3005	2805	2805	2805	2600	2120	2600	2120	2210
13. MAP 11/55/0	-	3140	-	3140	-	2935	-	2685	-	2685	-	2685

(1) 2100/2300 w.e.f. 6.6.74 & 2300/2500 w.e.f. 3.8.74 (2) 15.9.74 (3) 1.1.75 (4) 22.7.75 (5) 25.7.75  
 Notes- Figures mentioned for 16/20/0 in brackets are for EID Farry otherwise for F&CF. Contd.../-

Product (% of N/P/K)	1.6.74-31.3.75		1.4.75-17.7.75		18.7.75-30.11.75		1.12.75-15.3.76		16.3.76-19.4.76		20.4.76		
	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool	
14. ΔMP	20/20/0	972	1855	972	1855	2240	1780	2240	1660	1950	1650	1950	1660
	23/23/0	-	2120	-	2120	-	2030	-	1910	-	1910	-	1910
	26/14/0	-	1820	-	1820	-	1745	-	1645	-	1645	-	1645
	24/24/0	-	-	3150	3080	2875	3030	2700	2550	2330	2295	2330	2265
						(3000)		(2650)		(2270)		(2270)	
	15/15/15	1870	1700	1870	1700	1805	1700	1805	1645	1570	1645	1570	1575
15. UAP	28/28/0	2935(1)	-	3290	-	3180(2)*	-	3030	-	2600	-	2600	-
	14/35/14	2935(1)	-	2935	-	3180(2)	-	2930	-	2355	-	2355	-
16. NPK	14/14/14	1590	1590	1590	1590	1590	1590	1540	1540	1540	1540	1540	1540
	14/28/14	2850	2260	3400	2260	3400	2260	3400	2020	2920	2020	2920	2020
	10/26/26	3060	2245	3060	2245	3060	2245	2700	2200	2200	2200	2200	2200
	12/32/15	3175	2415	3175	2415	3700	2415	3000	2350	2470	2350	2470	2350
	14/36/12	-	2605	-	2605	-	2605	-	2535	-	2535	-	2535
	13/13/13	-	1475	-	1475	-	1475	-	1425	-	1425	-	1425
	12/24/12	-	1945	-	1945	-	1945	-	1725	-	1725	-	1725
	11/11/11	-	1260	-	1260	-	1260	-	1220	-	1220	-	1220
	17/17/17	2505	-	2775	2590	-	2590	-	2425	1970	2125	1970	1970
	17/8/9	-	1330	-	1330	-	1330	-	1190	-	1190	-	1190
	20/10/10	-	2170	-	2170	-	2170	-	1835	-	1835	-	1835
	13/13/20	-	2130	-	2130	-	2130	-	1990	-	1990	-	1990
	17/17/16	-	2565	-	2565	-	2565	-	2400	-	2400	-	2400
	19/19/19	3100	-	3100	-	2950(3)	-	2570	-	2200	-	2180	-
	22/22/11	3125	-	3125	-	2975	-	2650	-	2270	-	2270	-

(1) 2850 w.e.f. 1.6.74 & 2935 w.e.f. 8.1.75 (2) w.e.f. 28.7.75 (3) w.e.f. 29.7.75.

\* 3300 for Goa Unit.

Note:- Figures given in brackets for 24/24/0 are for IIFCO otherwise for MFL.

FERTILIZER PRICES ( INCLUSIVE OF EXCISE DUTY BUT EXCLUSIVE OF CENTRAL/STATE/LOCAL TAXES )

(Nutrient Rs./Kg. effective on)

(19.4.1968 to 20.4.1976)

Product	(% of N/P/K)	19.4.68-28.2.69		1.3.69-8.3.71		9.3.71-16.3.72		17.3.72-31.3.72		1.4.72-9.10.73		10.10.73-31.5.74	
		Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool
1. Urea	46/0/0	1.87	1.87	2.05(1)	2.05(1)	2.01	2.01	2.08	2.08	2.08	2.08	2.28	2.28
	45/0/0	1.87	1.87	2.05(1)	2.05(1)	2.01	2.01	2.09	2.09	2.09	2.09	2.29	2.29
2. AS	21/0/0												
	100 Kg. Packed	2.39	2.39	2.57(1)	2.57(1)	2.52	2.52	2.61	2.61	2.61	2.61	2.81	2.81
	50 Kg. Packed	2.44	2.44	2.62(1)	2.62(1)	2.57	2.57	2.67	2.67	2.67	2.67	2.86	2.86
3. CAN	25/0/0	2.04	2.04	2.18(1)	2.18(1)	2.13	2.18†	2.26	2.26	2.26	2.26	2.46	2.46
	26/0/0	-	-	2.21	2.21	2.21	2.21	2.28	2.28	2.28	2.28	2.48	2.48
	27/0/0	-	-	-	-	-	-	-	-	-	-	-	-
	28/0/0	-	-	-	-	-	-	-	-	-	-	-	-
4. ASN	26/0/0	2.22	2.22	2.41(1)	2.41(1)	2.41	2.41	2.41	2.41	2.50	2.41	2.75(7)	2.98(9)
5. A.chl.	25/0/0	2.16	2.02	2.16	2.16	2.23(2)	2.16	2.28	2.16	2.28	2.16	3.04(7)	2.16
6. MOP	0/0/60	-	0.82	-	0.89	-	0.89	-	0.92	-	0.92	-	1.13
7. SOP	0/0/48	-	1.36	-	1.36	-	1.52	-	1.67	-	1.67	-	1.67
8. Polop- HOS	0/18/0	-	-	-	-	-	-	-	-	-	-	3.00	-
9. TSP	0/46/0*	1.90	-	1.90	-	2.40	-	2.52(4)	-	2.77(6)	-	2.77	-
10. SSP	0/16/0*	1.95	-	1.88	-	1.89	-	1.82	-	1.82	-	3.82(10)	-
11. APS	16/20/0	2.83	-	2.69	-	2.72(2)	-	3.24(5)	-	3.24	-	4.67	-
	20/20/0	-	-	-	-	-	-	-	-	3.10	-	4.72(8)	3.82
	19/20/0	-	-	-	-	-	-	-	-	-	-	-	-
	18/9/0	-	-	-	-	-	-	-	-	-	-	-	-
	19.5/19.5/0	-	-	-	-	-	-	-	-	-	-	-	-
12. DLP	18/46/0	1.65	1.65	1.85	1.85	2.14(3)	1.86	2.11	1.89	2.23	1.30	2.15	2.01
13. MAP	11/55/0	-	-	-	-	-	-	-	1.99	-	1.99	-	1.95

w.e.f. (1) 17.4.69, (2) 11.9.71, (3) 13.5.71, (4) 1.1.72, (5) 27.3.72, (6) 23.7.73,  
(7) 14.10.73, (8) 19.10.73, (9) 25.1.74 & (10) 7.3.74.

\* Ex-factory price only upto 31.5.74.

Product (% of N/P/K)	19.4.68-28.2.69	1.3.69-8.3.71	9.3.71-16.3.72	17.3.72-31.3.72	1.4.72-9.10.73	10.10.73-31.5.74				
	Ind.	Pool	Ind.	Pool	Ind.	Pool				
14. ANP	20/20/0	2.45	2.35	2.49	2.39	2.42	2.47	2.78	2.78	3.72
	23/23/0	-	-	-	-	-	-	-	-	2.96(3)
	26/14/0	-	-	-	-	-	-	-	-	-
	24/24/0	-	-	-	-	-	-	-	-	-
	15/15/15	2.91	3.14	2.90	3.18	2.80	3.28	3.28	4.72	5.76
15. UAP	28/28/0	-	-	2.35	-	2.61	-	3.25(2)	3.95	-
	14/35/14	-	-	-	-	2.66	-	3.08(2)	2.91	-
16. NPK	14/14/14	2.85	2.99	3.22	3.03	3.12	3.13	3.12	2.74	2.76
	14/28/14	2.44	2.59	-	2.61	-	2.68	2.84	3.40	3.87
	10/26/26	-	-	-	2.48	-	2.75	-	-	2.46
	12/32/16	-	-	-	2.39	-	2.44	-	-	2.26
	14/36/12	-	-	-	2.38	-	2.42	-	-	2.27
	13/13/13	-	-	-	3.11	-	3.02	-	-	2.61
	12/24/12	-	2.34	-	2.36	-	2.30	-	-	3.90
	11/11/11	-	-	-	-	-	-	-	-	-
	17/17/17	-	-	-	-	-	-	3.48	4.00	-
	17/8/9	-	-	-	-	-	-	-	-	-
	20/10/10	-	-	-	-	-	-	-	-	-
	12/13/20	-	-	-	-	-	-	-	-	-
	17/17/16	-	-	-	-	-	-	-	-	-
	19/19/19	-	-	-	-	-	-	-	-	-
	22/22/11	-	-	2.66	-	2.58	-	2.53	2.27	-

(1) w.e.f. 1.4.71, (2) w.e.f. 1.9.73, (3) 3.74 w.e.f. 10.10.73 & 2.96 w.e.f. 1.1.74.

Contd.

Product (% of N/P/K)	1.6.74-31.3.75	1.4.75-17.7.75	1.7.75-30.11.75	1.12.75-15.3.76	16.3.76-19.4.76	20.4.76
	Ind.	Pool	Ind.	Pool	Ind.	Pool
1. Urea 46/0/0	4.35	4.35	4.02	4.02	3.80	3.80
45/0/0	4.36	4.36	4.02	4.02	3.80	3.80
2. AS 21/0/0	4.40	4.40	4.40	4.40	4.40	4.40
100 Kg. Packed	4.45	4.45	4.45	4.45	4.45	4.45
50 Kg. Packed	4.38	4.38	4.06	4.06	4.06	4.06
3. CAN 25/0/0	4.40	4.40	4.08	4.08	4.08	4.08
26/0/0	4.39	4.39	4.07	4.07	4.07	4.07
27/0/0	4.39	4.39	4.07	4.07	4.07	4.07
28/0/0	4.39	4.39	4.07	4.07	4.07	4.07
4. ASN 26/0/0	4.17(2)	4.40	4.08	4.08	4.08	4.08
5. A. Chl. 25/0/0	5.66	4.38	5.54(4)	5.54	3.98	3.98
6. MOP 0/0/60	-	2.05	-	1.83	1.52	1.52
7. SOP 0/0/43	-	3.26	-	2.92	2.92	2.92
8. Pelophos 0/13/0	4.58	-	4.06	-	4.06	-
9. MSP 0/46/0	5.87(2)	6.32	6.47	4.08	4.08	4.08
10. SSP 0/16/0	5.67(2)	-	5.99	-	-	-
11. APS 16/20/0	8.02(1)	9.15	8.95(5)	7.94	6.31	6.31
			(9.00)	(7.51)	(6.16)	(6.16)
20/20/0	8.15(1)	4.92	9.23(5)	8.23	6.95	6.20
19/20/0	-	8.47	-	4.23	4.50	4.50
18/9/0	-	-	8.53	6.98	7.19	7.19
19.5/19.5/0	-	-	-	-	-	-
18/46/0	4.83	4.83	4.52	4.08	4.16	3.31
11/55/0	-	4.84	4.53	4.08	4.12	4.12
12. MAP	-	-	-	-	-	-
13. MAP	-	-	-	-	-	-

(1) 7.02/7.15 w.e.f. 6.674 & 8.02/3.15 w.e.f. 3.8.74 respectively.  
w.e.f. 15.9.74 (2), 1.1.75 (3), 22.7.75 (4), 25.7.75 (5).

Note:- Figures mentioned for 16/20 in bracket are for EID Farry otherwise for F.L.CI.



Product (% of N/P/K)	1.6.74-31.3.75		1.4.75-17.7.75		18.7.75-30.11.75		1.12.75-15.3.76		16.3.76-19.4.76		20.4.76		
	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool	Ind.	Pool	
14. ANP	20/20/0	-	4.95	-	4.95	7.18	4.88	7.18	4.28	5.95	4.50	5.95	4.50
	23/23/0	-	4.87	-	4.87	-	4.83	-	4.28	-	4.50	-	4.50
	26/14/0	-	4.92	-	4.92	-	5.00	-	4.28	-	4.69	-	4.69
	24/24/0	-	-	8.77	8.43	7.95	8.81	7.23	7.02	5.91	5.76	5.91	5.64
						(8.48)		(7.02)		(5.66)		(5.66)	
15. UAP	15/15/15	6.07	4.93	6.07	4.93	6.04 *	5.34	5.92	5.12	5.15	5.65	5.15	5.16
	28/28/0	6.13(1)	-	7.36	-	7.34(2)	-	6.80	-	5.49	-	5.49	-
	14/35/14	5.83(1)	-	5.83	-	6.68(2)	-	6.03	-	4.60	-	4.60	-
16. NPK	14/14/14	4.96	4.96	4.96	4.96	5.37	5.37	5.15	5.15	5.68	5.68	5.68	5.68
	14/28/14	6.98	4.87	8.94	4.87	9.15	5.08	9.22	4.29	7.77	4.55	7.77	4.55
	10/26/26	8.05	4.91	8.05	4.91	8.25	5.12	7.01	5.03	5.48	5.48	5.48	5.48
	12/32/16	7.27	4.89	7.27	4.89	9.07	5.05	6.95	4.92	5.54	5.16	5.54	5.16
	14/36/12	-	4.86	-	4.86	-	5.02	-	4.87	-	5.06	-	5.06
	13/13/13	-	4.95	-	4.95	-	5.36	-	5.11	-	5.64	-	5.64
	12/24/12	-	4.90	-	4.90	-	5.11	-	4.26	-	4.53	-	4.53
	17/17/17	8.34	-	9.92	8.83	9.54	9.25	7.68	8.41	6.27	7.18	6.27	6.27
	15/15/15	-	5.05	-	5.05	-	5.46	-	5.24	-	5.77	-	5.77
	17/8/9	-	5.08	-	5.08	-	5.86	-	4.27	-	5.09	-	5.09
	20/10/10	-	10.95	-	10.95	-	11.69	-	8.48	-	9.23	-	9.23
	13/13/20	-	8.88	-	8.88	-	9.33	-	8.47	-	9.17	-	9.17
	17/17/16	-	8.81	-	8.81	-	9.22	-	8.33	-	8.89	-	8.89
	19/19/19	9.92	-	9.92	-	9.54(3)	-	7.68	-	6.26	-	6.16	-
	22/22/11	8.83	-	8.83	-	8.51	-	7.11	-	5.76	-	5.76	-

(1) 5.83/5.53 w.e.f. 1.6.74 and 6.13/5.83 w.e.f. 1.1.75 (2) w.e.f. 28.7.75 (3) w.e.f. 29.7.75.

Notes:- Figures given below in brackets for 24/24/0 are for IFPCO otherwise for MFL.

\* 7.77 Rs./Kg. for Goa Unit.

PROFITABILITY ANALYSIS OF  
FERTILIZER CORPORATION OF INDIA  
DURING 1972-73 to 1974-75

( Rs./lakhs)			
I T E M	1972-73	1973-74	1974-75
(1)	(2)	(3)	(4)
1. Authorised Capital	40000	40000	60000
2. Equity Capital	20306	30107	42646
3. Loans: a) Total	15365	14670	17270
b) Foreign	5685	5543	5008
4. Net Worth	21638	30786	42907
5. Capital employed	10729	9893	15196
6. Working Capital	1917	1461	1400
7. Sales/Operating Income	9166	11253	17173
8. Profit	352	121	201
9. Net Profit	18	(-)	134
		(-)	71
10. Dividend declared	-	-	-
11. Percentage of			
i) Net Profit to Equity	0.1	(-)	0.4
ii) Profit to Capital employed	3.3		1.2
iii) Net Profit to Net Worth	0.2	(-)	0.4
iv) Sales to Capital employed	85.4	113.7	110.0
v) Total loans to Equity	75.7	48.7	40.5
vi) Foreign loans to capital employed.	53.0	56.0	33.0

SOURCE: Annual Report on Central Government Undertakings  
by Bureau of Public Enterprises.

( 1974 - 75 )

PROFITABILITY ANALYSIS OF  
FERTILIZERS & CHEMICALS ( TRAVANCORE )  
DURING 1972-73 to 1974-75

( Rs. Lakhs )			
I. T. S. M.	1972-73	1973-74	1974-75
(1)	(2)	(3)	(4)
1. Authorized Capital	7500	7500	7500
2. Equity Capital	4999	6067	6912
3. Loans: a) Total	6017	5635	7371
b) Foreign	1148	897	813
4. Net Worth	3984	4436	4967
5. Capital employed	3863	3222	9501
6. Working Capital	1470	824	2309
7. Sales/Operating Income	2621	2676	5653
8. Profit	(-) 115	1	33
9. Net Profit	(-) 232	(-) 197	(-) 306
10. Dividend declared	-	-	-
II. Percentage of			
i) Net Profit to equity	(-) 4.6	(-) 3.2	(-) 4.4
ii) Profit to Capital- employed	(-) 3.0	-	0.3
iii) Net Profit to Networth	(-) 5.9	(-) 4.4	(-) 6.2
iv) Sales to Capital - employed	60.1	83.1	59.5
v) Total loans to equity	120.4	92.9	106.6
vi) Foreign loans to Capital employed.	29.7	27.8	8.6

SOURCE: Annual Report on Central Government Undertakings  
by Bureau of Public Enterprises.

( 1974 - 75 )

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## PROFITABILITY ANALYSIS OF

MADRAS FERTILIZERS LTD :

DURING 1972-73 to 1974-75

(Rs./lakhs)

I T E M	1972-73	1973-74	1974-75
(1)	(2)	(3)	(4)
1. Authorised Capital	1400	1400	1400
2. Equity Capital	1365	1365	1365
3. Loans: a) Total	5530	5363	5686
b) Foreign	27	17	-
4. Net Worth	1146	1474	2001
5. Capital employed	6653	6831	7314
6. Working Capital	1760	2442	3598
7. Sales/Operating Income	3494	4971	7202
8. Profit	353	698	906
9. Net Profit	(-) 21	308	505
10. Dividend declared	-	-	-
11. Percentage of			
i) Net Profit to Equity (-)	1.5	22.6	37.0
ii) Profit to Capital employed	5.3	10.2	12.4
iii) Net Profit to Net Worth (-)	1.8	20.9	25.2
iv) Sales to Capital employed	52.5	72.8	98.5
v) Total loans to Equity	405.1	392.9	416.6
vi) Foreign loans to capital employed .	0.4	0.2	-

SOURCE: Annual Report on Central Government Undertakings  
by Bureau of Public Enterprises.

( 1974 - 75 )

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FIFTH PLAN OUTLAYS-SUMMARY

(Rs. crores)

Plan	Private Sector	Public Sector	Total
Draft V Plan outlay	16161	37250	53411
V Plan (Revised outlay)	27048	39303	66351
Annual Plan (1974-75)	N.A.	4843.68	N.A.
Annual Plan (1975-76)	N.A.	5978.09*	N.A.
Annual Plan (1976-77)	N.A.	7851.92	N.A.

\* In the course of the year, on account of improved economic situation, investments in the crucial sectors specially steel, railways, shipping & transport, fertilizers and coal were stepped up to the extent of Rs.2 70 crores in the Central Sector Plant. Following the initiation of new economic programme, additional allocation of Rs.85 crores was made to the States to enable them to increase the outlays on selected irrigation and power projects.

DRAFT 5TH PLAN OUTLAYS ON INDUSTRIAL AND  
MINERAL PROGRAMMES IN THE  
GENERAL SECTOR

(Rs. Crores)

Ministry/Department	Fifth Plan Outlay			Fifth Plan Outlay (%)		
	Conti- nuing schemes	New Schemes	Total	Conti- nuing schemes	New Schemes	Total
1.	2.	3.	4.	5.	6.	7.
1. Ministry of Steel & Mines (Department of Mines)	279.25	860.77	1140.02	9.9	20.4	16.2
2. Ministry of Steel & Mines (Department of Steel)	1208.00	751.00	1959.00	43.0	17.8	27.9
3. Ministry of Industrial Development	139.18	314.43	453.61	4.9	7.5	6.5
4. Ministry of Petroleum & Chemicals (Deptt. of Petroleum)	483.46	767.39	1251.35	17.2	18.2	17.8
5. Ministry of Petroleum & Chemicals (Deptt. of Ferti- lizers & Chemicals)	506.08	768.20	1274.28	18.0	18.2	18.1
6. Department of Atomic Energy	51.21	67.56	118.77	1.8	1.6	1.7
7. Ministry of Heavy Industry	88.60	407.86	496.46	3.2	9.7	7.1
8. Ministry of Commerce	5.91	54.68	60.59	0.2	1.3	0.9
9. Ministry of Finance	5.17	39.82	44.99	0.2	0.9	0.6
10. Ministry of Shipping & Transport	45.00	115.00	160.00	1.6	2.7	2.3
11. Department of Electronics	-	70.00	70.00	-	1.7	0.9
<b>T O T A L</b>	<b>2811.86</b>	<b>4217.21</b>	<b>7029.07</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Source: Draft 5th Five Year Plan 1974-79 (Vol. II)

FIFTH PLAN OUTLAYS ON INDUSTRIAL AND  
MINERAL PROGRAMMES IN THE CENTRAL SECTOR

(Rs. crores)		
Ministry/Department	Revised Fifth Plan Outlay	% to Total
1.	2.	3.
1. Ministry of Steel and Mines (Department of Steel)	2237.42	24.8
2. Ministry of Steel and Mines (Department of Mines)	550.59	6.1
3. Ministry of Energy (Department of Coal)	1147.58	12.7
4. Ministry of Petroleum	2051.53	22.7
(a) Petroleum	(1691.28)	(18.7)
(b) Petrochemicals	( 360.25)	( 4.0)
5. Ministry of Chemicals & Fertilizers	1502.07	17.8
(a) Fertilizers	(1488.16)	(16.5)
(b) Chemicals	(1113.91)	( 1.3)
6. Ministry of Industry (Department of Industrial Development)	380.22	4.2
7. Ministry of Industry (Department of Heavy Industries)	365.43	4.0
8. Department of Atomic Energy	184.18	2.0
9. Department of Electronics	46.37	0.5
10. Ministry of Shipping and Transport	146.58	1.6
11. Ministry of Commerce	143.18	1.6
12. Ministry of Civil Supplies and Cooperation	46.13	0.5
13. Ministry of Finance	131.73	1.5
TOTAL	<u>9033.00</u>	<u>100.0</u>

Source: Fifth Five Year Plan (1974-79)

ANNUAL PLAN OUTLAYS FOR CENTRAL INDUSTRIAL & MINERAL  
PROJECTS FOR 1974-75

(Rs. crores)

Ministry/Department	Budgetary Support	Internal Resources	Plan Outlay	% to Total
1.	2.	3.	4.	5.
1. Department of Mines	183.47	15.25	198.72	19.55
2. Department of Steel	162.45	113.95	276.40	27.19
3. Ministry of Industrial Development	39.67	0.30	39.97	3.93
4. Ministry of Heavy Industry	17.82	32.33	50.15	4.93
5. Department of Petroleum	40.01	136.69	176.70	17.38
6. Department of Fertilizers & Chemicals	167.50	12.11	79.61	17.67
7. Department of Commerce	5.86	2.39	8.25	0.81
8. Department of Banking	15.83	-	15.83	1.56
9. Department of Economic Affairs	4.45	-	4.45	0.44
10. Department of Revenue & Insurance	0.43	-	0.43	0.04
11. Department of Shipping & Transport	24.50	-	24.50	2.41
12. Department of Atomic Energy	34.01	0.61	34.62	3.41
13. Department of Electronics	6.94	-	6.94	0.68
<b>T O T A L</b>	<b>702.94</b>	<b>313.63</b>	<b>1016.57</b>	<b>100.00</b>

Source: Annual Plan 1974-75

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**ANNUAL PLAN OUTLAYS FOR GENERAL INDUSTRIAL & MINERAL  
PROJECTS FOR 1975-76**

(Rs. crores)

Ministry/Department	Budgetary Support	Extra Budgetary Resources	Plan Outlay	% to Total
1.	2.	3.	4.	5.
1. Department of Steel	199.92	71.80	271.72	17.71
2. Department of Mines	91.30	17.00	108.30	7.06
3. Department of Coal	229.00	1.00	230.00	14.99
4. Department of Industrial Development	64.76	10.65	75.41	4.92
5. Department of Heavy Industry	44.15	14.85	59.00	3.85
6. Department of Civil Supplies and Cooperation	13.55	-	13.55	20.83
7. Department of Fertilizers & Chemicals	290.95	15.75	306.52	19.93
8. Department of Petroleum	169.90	197.85	367.75	23.97
9. Ministry of Commerce	8.14	0.48	8.62	0.56
10. Department of Economic Affairs	5.17	-	5.17	0.34
11. Department of Banking	6.96	-	6.96	0.45
12. Department of Revenue and Insurance	0.38	-	0.38	0.03
13. Ministry of Shipping & Transport	29.90	-	29.90	1.95
14. Department of Atomic Energy	42.75	2.00	44.76	2.92
15. Department of Electronics	5.99	-	5.99	0.39
<b>T O T A L</b>	<b>1202.83</b>	<b>331.20</b>	<b>1534.03</b>	<b>100.00</b>

Source: Annual Plan 1975-76.

ANNUAL PLAN OUTLAYS FOR CENTRAL INDUSTRIAL  
AND MINERAL PROJECTS FOR 1976-77

(Rs. crores)

Ministry/Department	1975-76	1976-77			% to Total	
	Anti- Expdr.	Budgetary Support	Extra Budgetary Resources	Plan Outlay	Antici- pated Expdr. 1975-76	Plan Outlay 1976-77
1.	2.	3.	4.	5.	6.	7.
1. Department of Steel	318.25	402.42	36.20	438.62	20.04	21.33
2. Department of Mines	122.20	102.97	10.00	112.97	7.70	5.51
3. Department of Coal	237.68	277.20	1.05	273.25	14.97	13.57
4. Department of Industrial Development	42.30	72.30	0.49	72.69	2.66	3.54
5. Department of Heavy Industry	60.24	57.18	14.40	71.58	3.79	3.49
6. Department of Civil Supplies & Cooperation	10.28	14.67	..	14.67	0.65	0.72
7. Department of Chemicals & Fertilizers	313.69	439.05	2.42	441.47	19.76	21.52
8. Ministry of Power	390.36	273.81	211.05	484.86	24.59	23.69
9. Ministry of Commerce	10.29	32.70	1.03	33.73	0.65	1.64
10. Department of Economic Affairs	5.09	3.98	..	3.98	0.32	0.19
11. Department of Revenue & Banking (Banking Wing)	5.62	10.98	..	10.98	0.35	0.54
12. Department of Revenue & Banking (Revenue Wing)	0.44	0.40	..	0.40	0.03	0.02
13. Ministry of Shipping & Transport	25.43	26.73	..	26.73	1.60	1.30
14. Department of Atomic Energy	41.63	45.97	8.25	52.22	2.62	2.55
15. Department of Electronics	4.26	8.00	..	8.00	0.27	0.39
<b>T O T A L</b>	<b>1587.76</b>	<b>1766.35</b>	<b>284.89</b>	<b>2951.15</b>	<b>100.00</b>	<b>100.00</b>

Source: Annual Plan 1976-77.

REVISED FIFTH PLAN PROGRAMMES - SUMMARY

MINISTRY OF CHEMICALS & FERTILIZERS

(Rs. in lakhs)

Name of the Undertaking	Provision in Draft V Plan	Anticipated Outlay				Revised Fifth Plan Outlay
		Actual Expenditure 1974-75	Revised estimated expenditure in 1975-76	Provision in 1975-77	Outlay 1977-79 (Col. 1-(Col. 3 to 5))	
1.	2.	3.	4.	5.	6.	7.
<b>I. FERTILIZERS</b>						
1. Fertilizer Corporation of India Ltd.	49035.00	15797.00	21969.00	22980.00	35618.00	96364.00
2. Madras Fertilizers Ltd.	2750.00	337.41	385.00	42.14	59.45	824.00
3. Fertilizers & Chemicals Travancore Ltd.	1467.00	1437.00	1913.00	1629.00	1028.00	6007.00
4. National Fertilizers Ltd.	56000.00	1358.00	6300.00	17105.00	10071.00	34854.00
5. New Fertilizers Plants					11611.00	11611.00
<b>Total (Fertilizers)</b>	<b><u>109252.00</u></b>	<b><u>18029.41</u></b>	<b><u>30567.00</u></b>	<b><u>41756.14</u></b>	<b><u>58387.45</u></b>	<b><u>149640.00</u></b>
% of Fertilizers to Grand Total	90.48	98.03	97.52	94.58	88.12	92.91

Contd.../-

Name of the Undertaking	Provision in Draft V Plan	Anticipated		Outlay		Revised Fifth Plan Outlay
		Actual Expenditure 1974-75	Revised estimated expenditure in 1975-76	Provision in 1975-77	Outlay 1977-79 (Col. 4 - (Col. 3 to 5))	
	1.	2.	3.	4.	5.	7.
<b>II. DRUGS &amp; PHARMACEUTICALS</b>						
6. Indian Drugs & Pharmaceuticals Ltd.	4000.00	200.00	440.00	1190.00	4014.05	5374.05
7. Hindustan Antibiotics Ltd.	3000.00	38.74	40.00	100.00	809.86	983.60
Total (Drugs)	<u>7000.00</u>	<u>238.74</u>	<u>480.00</u>	<u>1290.00</u>	<u>4823.91</u>	<u>6357.65</u>
% of Drugs to Grand Total	5.80	1.24	1.53	2.92	7.33	4.26
<b>III. OTHER CHEMICALS</b>						
8. Hindustan Insecticides Ltd.	2500.00	-	85.00	600.00	1559.00	2244.00
9. Hindustan Organic Chemicals Ltd.	2000.00	63.00	100.00	250.00	1022.00	1435.00
10. Pyrites, Phosphates & Chemicals Ltd.	-	79.00	111.00	250.00	403.00	818.80
11. Central Institute of Plastics Engineering & Tools	-	-	1.00	1.00	26.00	28.00
Total (Other Chemicals)	<u>4500.00</u>	<u>142.00</u>	<u>297.00</u>	<u>1101.00</u>	<u>3010.00</u>	<u>4525.80</u>
% of Other Chemicals to Grand Total	3.72	0.73	0.95	2.49	4.55	2.83
GRAND TOTAL (1 to 11)	<u>120752.00</u>	<u>15810.15</u>	<u>31544.00</u>	<u>44147.14</u>	<u>66257.16</u>	<u>101088.45</u>

CAPACITY AND PRODUCTION TARGET FOR SELECTED  
INDUSTRIES FOR 1976-77 AND 1978-79

Industry	Unit	1973-74	1975-76	Draft 5th Plan		1976-77	Revised 5th Plan	
		Actual Production	Estimated Production	Target Capacity	Target Production	Annual Plan	Target Capacity	Target Production
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
<b>1. BASIC CHEMICALS</b>								
i) Sulphuric acid	000 tonnes	1343.00	1445.00	4000.00	3200.00		3004.00	2700.00
ii) Caustic Soda	"	419.00	470.00	1000.00	785.00	520.00	755.40	610.00
iii) Soda Ash	"	480.00	555.00	1100.00	880.00	600.00	999.00	710.00
iv) Methanol	"	25.00	27.00				84.50	50.00
v) Industrial oxygen	m.c.m.	60.70	64.30				130.00	100.00
<b>2. AGRICULTURAL CHEMICALS</b>								
i) Fertilizers (N)	000 tonnes	1053.00	1535.00	6000.00	4000.00	1850.00 1950.00*	4723.00	2900.00
ii) Fertilizers(P2O5)	"	319.00	302.00	1315.00	1250.00	450.00 480.00*	1311.00	770.00
iii) Pesticides (Technical Materials)	"	29.00	36.00	90.00	74.00	40.00 37.00*	70.00	60.00
iv) B.H.C.	"	21.00	24.30	30.00	25.00		23.90	23.00
v) D.D.T.	"	3.90	4.40	9.20	8.00		4.20	4.40
<b>3. DRUGS &amp; PHARMACEUTICALS</b>								
<u>Antibiotics</u>								
i) Penicillin	MMU	247.50	251.30			275.00	575.00	520.00
ii) Streptomycin	Tonnes	179.85	191.10			203.00	450.00	400.00
iii) Anti-Diabetes Drugs (insulin)	MMU	898.00	812.00			888.00	1500.00	1200.00
iv) Anti-dysentery Drugs	Tonnes	72.80	123.70			210.00	539.40	450.00

\* As revised later by the Ministry of Chemicals & Fertilizers

Industry	Unit	<u>1973-74</u>	<u>1975-76</u>	Draft 5th Plan		<u>1976-77</u>	Revised 5th Plan	
		Actual Production	Estimated Production	Target Capacity	Target Production	Annual Plan	Target Capacity	Target Production
(0)	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
v) Anti-leprosy Drugs	Tonnes	8.70	14.70	.	.	17.50	25.60	22.00
vi) Anti-malarial Drugs	"	22.86	60.00			70.00	303.00	200.00
vii) Anti-pyretics and Analgesics	"	977.10	1587.00			1650.00	3055.00	2000.00
viii) Anti-tuberculosis Drugs	"	594.00	646.00			645.00	1702.00	1050.00
ix) Sulpha Drugs	"	1297.00	1055.00			1100.00	2730.00	1750.00
x) Vitamin-B <sub>1</sub>	MMU	48.30	30.00			35.00	60.00	54.00
xi) Other Vitamins	Tonnes	..	370.00			370.00	665.00	500.00
4. <u>DYESSTUFFS</u>	000 Tonnes	15.1*	314.85				30.00	24.00

\* D.G.T.D. Hand Book of Industrial Data 1975

Source: Production data as compiled in E & S Division excepting of 1973-74 in respect of Dyestuff.

PROJECTED V PLAN SECTORIAL GROWTH RATES  
IN TERMS OF GROSS VALUE OF OUTPUT AND  
GROSS VALUE ADDED

Sector	Average annual growth rate %	
	Value of Output	Value added
	2.	3.
Chemical Industry	10.84	10.46
Fertilizers	22.26	21.91
Inorganic Heavy Chemicals	10.26	9.84
Organic Heavy Chemicals	11.06	10.48
Plastics & Paints	10.35	8.74
Cosmetics & Drugs	4.89	5.00
Man-made Fibres	5.14	2.73
Other Chemicals	7.35	7.55
Overall Mining & Manufacturing	7.10	6.54
(a) Mining	12.58	11.44
(b) Manufacturing	6.92	6.17

PRODUCTION ESTIMATES OF NITROGEN FOR 1976-77 TO 1983-84  
(as on 1.12.76) (1000 tonnes of N<sub>2</sub>)

Plants	Inst.	76-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84
(1)	Cap. (2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<u>(I) Operating Units</u>									
Sindri	90	23	25	35	60	75	75	75	75
Nangal	80	80	70	70	75	75	75	75	75
Trombay	81	85	70	70	75	75	75	75	75
Gerakhpur	131	100	110	110	115	115	115	115	115
Namrup	45	45	41	40	40	40	40	40	40
Durgapur	152	40	70	75	100	125	125	125	125
Namrup Exp.	152	57	100	115	125	130	130	130	130
Barauni	152	35	70	115	125	130	130	130	130
Udyogamandal	82	40	40	35	35	35	35	35	35
Cochin	152	83	110	110	120	125	125	125	125
Rourkela	120	80	80	90	100	100	100	100	100
Nayveli	70	40	30	35	40	60	60	60	60
Madras	176	128	150	150	150	150	150	150	150
<u>By Products</u>									
(Public)	20	19	19	20	20	20	20	20	20
Varanasi	10	5	5	5	5	5	5	5	5
-Eanore	16	10	10	10	-	-	-	-	-
Baroda	216	190	190	190	190	190	190	190	190
Vizag.	83	65	70	70	70	70	70	70	70
Kota	152	130	130	130	137	137	137	137	137
Kanpur	200	185	185	185	190	190	190	190	190
Goa	171	130	150	150	150	150	150	150	150
Tatipar	258	167	200	205	225	225	225	225	225
Mangalore	160	75	125	130	140	140	140	140	140
IFFCO	215	175	182	182	200	200	200	200	200
By Prod. (Pvt)	4	3	3	3	3	3	3	3	3
Pub. Sector	555	855	985	1070	1100	1255	1255	1255	1255
Pvt. Sector	1270	960	1058	1078	1110	1110	1110	1110	1110
Coop. Sector	215	175	182	182	200	200	200	200	200
<u>Total (I)</u>	<u>3040</u>	<u>1990</u>	<u>2235</u>	<u>2330</u>	<u>2490</u>	<u>2565</u>	<u>2565</u>	<u>2565</u>	<u>2565</u>



(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
<u>(II) Plants under implementation</u>									
Cochin	40	-	30	30	35	35	35	35	35
Nangal Expn.	152	-	-	90	120	125	125	125	125
Trombay IV	75	-	-	40	60	65	65	65	65
Talcher	228	-	-	125	155	180	180	180	180
Ramagundam	228	-	-	125	155	180	180	180	180
Bhatinda	235	-	-	130	160	210	210	210	210
Sindri Mod.	129	-	-	90	100	105	105	105	105
Haldia	152	-	-	-	80	100	125	125	125
Panipet	235	-	-	-	130	165	200	200	200
Phulpur	228	-	-	-	125	150	200	200	200
Trombay V	130	-	-	-	-	80	100	110	110
Thana	51	-	-	-	-	30	35	45	45
Baroda Exp.	273	-	-	-	50	150	175	220	220
Korba	228	-	-	-	-	-	125	155	205
-----									
Total (II)	2384	-	30	630	1170	1575	1860	1955	2005
-----									
Total (I + II)	5372	1990	2265	2960	3660	4140	4425	4520	4570

(III) Plants approved in principle

Mathura	235								
Paradeep	345								
Kakinadu	228	-	-	-	-	-	-	-	430
Kota Expn.	345								
-----									
Total (I+II+III)	6525	1990	2265	2960	3660	4140	4425	4520	5000



**ESTIMATED REQUIREMENT OF NAPHTHA FOR FERTILIZER IN INDIA DURING 1976-77 to 1983-84**  
(As on 1.12.1976)  
(1000 tonnes)

Units	Capacity based on Naphta requirement	Annual 1976-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<b>A) Existing</b>										
Singri	20	20	20	20	85	85	85	85	85	85
Trombay	81	80	80	80	135	135	135	135	135	135
Gorakhpur	131	130	130	130	155	155	155	155	155	155
Durgapur	152	115	155	155	45	45	45	45	45	45
Udyogamandal	78	60	50	45	155	155	155	155	155	155
Cochin I	152	115	155	155	60	60	120	120	120	120
Kourkela	96	60	60	60	250	250	250	250	250	250
-Madras	176	244*	230	230	15	15	120	120	120	120
Ennore	16	18	15	15	90	90	90	90	90	90
Baroda	120	120	120	120	160	160	160	160	160	160
Vizag.	83	94@	75	90	220	220	220	220	220	220
Kota	152	165	135	145	270	270	270	270	270	270
Kanpur	200	258	205	205	60	60	60	60	60	60
Gcc.	171	220	170	200	170	170	170	170	170	170
Tuticorin	258	300	200	250	145	145	145	145	145	145
IFFCO	-	60*	50	60	2330	2330	2370	2410	2410	2410
Manglore	160	175	100	160	170	170	170	170	170	170
Barauni	152	165	50	85	135	135	145	155	155	155
<b>Total (A)</b>	<b>2198</b>	<b>2606</b>	<b>1910</b>	<b>2200</b>	<b>2285</b>	<b>2330</b>	<b>2370</b>	<b>2410</b>	<b>2410</b>	<b>2410</b>
<b>B) New Units</b>										
Faulpur	51	63	-	-	-	-	40	50	50	50
<b>Total</b>	<b>2477</b>	<b>2944</b>	<b>1910</b>	<b>2200</b>	<b>2285</b>	<b>2480</b>	<b>2600</b>	<b>2700</b>	<b>2700</b>	<b>2700</b>

\* To be consumed as process fuel.  
@ After expansion.

ESTIMATED REQUIREMENT OF FUEL OIL FOR FERTILIZER INDUSTRY DURING 1976-77 to 1983-84  
(As on 1.12.1976) (1000 tonnes)

Units	Capacity based on F.O.	Annual Requirement	1976-77	77-78	78-79	79-80	80-81	81-82	82-83	83-84
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
<u>(A) As Feed Stock</u>										
Existing Units -		-	-	-	-	-	-	-	-	-
<u>New Units under implementation</u>										
Nangal	232**	250	-	100	175	220	220	220	220	220
Bhatinda	235	265	-	80	170	200	220	220	220	220
Panipet	235	265	-	70	170	200	220	220	220	220
Haldia	150	210*	-	-	-	130	165	200	200	200
Sindri Mod.	129	250	-	-	135	180	200	210	210	210
GSFC Expn.	273	365	-	-	-	110	250	300	300	300
Nayveli	70@	90	-	-	-	60	75	80	80	80
Total (A)	1326	1695	-	250	650	1100	1350	1450	1450	1450
<u>(B) As Fuel</u>	-	1000	550	600	650	750	850	950	950	950
Total (A+B)	1326	2695	550	850	1300	1850	2200	2400	2400	2400

\* Includes requirement of F.O. for Methanol also.

@ Transformed from Lignite to F.O.

\*\* 80 thousand tonnes of Nitrogen capacity to be based on F.O. as to be transformed from old Nangal plant.

ACTUAL CONSUMPTION OF NAPHTHA AS FEED-STOCK  
IN THE FERTILIZER INDUSTRY DURING 1972-73 to  
1975-76.

( '000' tonnes)

Sl. No.	Units	1972-73	1973-74	1974-75	1975-76
1.	Sindri	16.0	23.8	22.5	22
2.	Trombay	76.1	76.9	66.6	70
3.	Gorakhpur	65.0	65.7	62.5	76
4.	Durgapur	9.2	44.0	52.8	82
5.	FACT, Alwaye	46.4	64.6	62.1	68
6.	Cochin	17.1	40.9	65.1	105
7.	Rourkela	38.1	38.0	59.7	57
8.	Madras	177.8	198.8	132.8	221
9.	Emnore	14.5	13.5	12.4	15
10.	G.S.F.C.	109.5	93.4	112.0	92
11.	Visag.	67.2	65.2	57.1	60
12.	Kota	130.2	102.5	102.8	120
13.	Kanpur	176.6	119.6	200.1	199
14.	Goa	24.4	124.9	186.2	149
15.	IFFCO	-	-	31.1	40
16.	SPIC	-	-	16.2	92
TOTAL:-		968.1	1071.8	1242.0	1468

ACTUAL CONSUMPTION OF FUEL OIL AS FEED-STOCK  
IN THE FERTILIZER INDUSTRY DURING 1971-72 TO  
1975-76

('000 Tonnes)

U N I T S	C O N S U M P T I O N				
	1971-72	1972-73	1973-74	1974-75	1975-76
Nangal	0.9	0.5	0.7	2.0	Neg.
Trombay	25.0	21.3	20.5	35.0	34
Durgapur	-	2.0	5.0	7.0	6
Udyogamandal	22.0	25.0	26.5	25.0	9
Cochin-I	-	10.0	12.0	30.0	58
Madras	28.2	57.6	56.7	60.0	62
Ennore	11.9	13.0	12.5	8.0	7
Baroda	7.9	11.9	10.9	50.5	5
Vizag	28.7	33.0	32.7	30.0	30
Kota	-	25.0	25.0	25.0	-
Kanpur	18.9	22.7	19.3	20.0	24
Goa	-	13.2	62.5	80.0	62
IFFCO	-	-	-	20.0	28
SPIC	-	-	-	25.0	86
Total	143.5	235.2	284.3	417.0	411

. . . . .

N.B. There is no plant in operation based on fuel oil as feed stock.

UNITWISE LOSS OF NITROGEN DUE TO POWER SHORTAGE  
DURING 1971-72 to 1975-76

U N I T S	Loss of Nitrogen ('000' tonnes) due to power problems/cuts.			
	1972-73	1973-74	1974-75	1975-76
<u>(A) Public Sector</u>				
Sindri	0.5	-	-	1.3
Nangal	26.0	21.0	39.8	10.8
Trombay	0.7	2.0	4.8	6.8
Gorakhpur	10.7	23.6	7.0	14.3
Namrup	1.2	1.8	0.7	-
Durgapur	-	-	5.0	0.3
Udyogamandal	3.1	1.0	1.6	0.2
Cochin-I	-	-	2.2	0.6
Rourkela	2.6	0.3	2.0	0.4
Nayveli	6.5	1.0	0.8	0.1
Madras	-	1.0	0.8	0.4
Total (A)	51.3	51.7	64.7	35.2
<u>(B) Private Sector</u>				
Varanasi	-	-	-	0.1
Emnore	-	5.5	1.4	0.8
Baroda	-	5.0	0.9	3.5
Vizag	6.3	7.0	0.2	8.4
Kota	-	-	2.1	0.5
Kanpur	12.2	51.0	2.1	6.3
Goa	-	10.0	-	-
SPIC	-	-	-	2.1
Total (B)	18.5	78.5	6.7	21.7
<u>(C) Coop. Sector</u>				
IFFCO	-	-	-	3.0
Grand Total	69.8	130.2	71.4	59.9

CAPACITY, PRODUCTION, IMPORT & CONSUMPTION OF  
PHOSPHORIC ACID DURING 1971-72 to 1975-76

(tonnes of P<sub>2</sub>O<sub>5</sub>)

U N I T S	Capacity					
		1971-72	1972-73	1973-74	1974-75	1975-76
		(i) <u>PRODUCTION</u>				
FCI-Trombay	36,000	-	-	-	1,148	11,958
FACT-Udyogaman- dal	36,000	13,416	12,228	18,745	20,280	21,390
EID-Ennore	10,000	8,122	9,013	8,351	11,025	9,143
CFL-Vizag.	104,000	74,178	59,153	53,975	45,867	45,098
GSFC-Baroda	50,000	26,193	34,630	30,900	31,564	29,048
DMCC-Ambernath	12,000	5,819	3,053	2,601	1,476	1,248
Total	2,48,000	1,27,728	1,18,077	1,14,572	1,11,360	1,17,885
		(ii) <u>IMPORT</u>				
MFL-Madras	-	19,635	61,978	55,209	46,280	59,155
ZACL-Goa	-	-	-	-	7,381	8,537
IFFCO	-	-	-	-	15,413	24,739
Total	-	19,635	61,978	55,209	69,074	92,431
		(iii) <u>CONSUMPTION</u>				
FCI-Trombay	-	-	-	-	1,106	11,956
FACT-Udyoga- mandal	-	13,416	12,228	18,745	20,280	21,390
MFL-Madras	-	14,163	55,221	49,827	49,126	61,268
EID-Ennore	-	8,122	9,013	8,351	11,025	9,143
CFL-Vizag.	-	74,257	58,770	54,396	45,760	44,649
GSFC-Baroda	-	26,193	34,630	30,900	31,564	29,048
ZACL-Goa	-	-	-	-	5,000	9,000
IFFCO	-	-	-	-	7,720	22,533
DMCC	-	5,819	3,053	2,601	1,476	1,248
Total	-	1,41,970	1,72,915	1,64,820	1,73,057	2,10,235



MAN POWER EMPLOYED IN FERTILIZER INDUSTRY  
(employed in fertilizer division only)  
DURING 1968 to 1976

(in numbers)

As on	MAN-POWER			Total
	Public	Private	Coop.	
<u>(A) NITROGENOUS &amp; COMPLEX</u>				
1.4.68	22,592	4,190	-	26,782
1.4.69	25,981	5,420	-	31,401
1.4.70	26,221	6,735	-	32,956
1.4.71	27,202	7,045	-	34,247
1.4.72	29,475	7,150	-	36,625
1.4.73	38,381	8,189	-	46,570
1.4.74	39,023	8,616	1,096	48,735
1.4.75	39,851	10,118	1,254	51,223
1.4.76	41,473	11,007	1,690	54,172
<u>(B) PHOSPHATIC</u>				
1.4.68	530	3,496	-	4,026
1.4.69	545	3,532	-	4,077
1.4.70	532	3,574	-	4,106
1.4.71	558	3,590	-	4,148
1.4.72	547	3,945	-	4,492
1.4.73	543	3,972	-	4,515
1.4.74	827	4,383	-	5,210
1.4.75	815	4,670	-	5,485
1.4.76	804	4,746	-	5,550
<u>(A+B) ALL FERTILIZERS</u>				
1.4.68	23,122	7,686	-	30,808
1.4.69	26,526	8,952	-	35,478
1.4.70	26,753	10,309	-	37,062
1.4.71	27,760	10,635	-	38,395
1.4.72	30,022	11,095	-	41,117
1.4.73	38,924	12,161	-	51,085
1.4.74	39,850	12,999	1,096	53,945
1.4.75	40,666	14,788	1,254	56,708
1.4.76	42,273	15,753	1,690	59,716

UNIT-BASED MAN POWER EMPLOYED IN THE FERTILIZER INDUSTRY  
URING 1973 TO 1976

(Nitrogenous & Complex Units)

(As on 1st April)

(numbers)

Units	Managerial/Supervisory	Clerical	Workman	On Contract	Expatriates/ Foreign Experts	Total
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(A) Pub. Sector

## ICI

1973	3305	5010	18,620	44	-	26,979
1974	3375	5098	19,127	100	-	27,700
1975	3585	5217	19,606	120	-	28,628
1976	3754	4681	22,011	-	-	30,446

## FACT

1973	1603	1062	4,128	-	-	6,793
1974	1650	1054	4,022	-	-	6,726
1975	1291	1116	4,194	-	-	6,501
1976	1325	1091	4,028	-	-	6,444

## MPL

1973	235	160	519	3	3	920
1974	237	173	514	3	1	928
1975	235	173	551	3	-	962
1976	265	138	574	5	-	982

## HSL-Rourkela

1973	269	169	1326	-	-	1,764
1974	458	171	1151	-	-	1,780
1975	483	171	1158	-	-	1,812
1976	516	156	1136	-	-	1,808

## NLC-Nayveli

1973	687	106	1132	-	-	1,925
1974	676	107	1106	-	-	1,889
1975	659	110	1079	-	-	1,848
1976	650	109	1056	-	-	1,755

(B) Pvt. Sector

## NCFM-Varanasi

1973	180	84	804	100	-	1,168
1974	163	85	790	271	-	1,314
1975	170	82	772	279	-	1,303
1976	172	83	765	250	-	1,270

## HID-Farone

1973	70	56	604	-	-	730
1974	70	221	442	75	-	808
1975	69	219	442	71	-	801
1976	64	185	455	48	-	752

## GSPG-Bardola

1973	329	801	996	-	-	2,126
1974	422	659	1359	-	-	2,440
1975	431	723	1429	-	-	2,583
1976	438	707	1555	-	-	2,700

## CEL-Vizag

1973	196	119	698	-	2	1,015
1974	198	113	679	1	1	992
1975	196	115	681	1	1	994
1976	211	109	728	1	1	1,050

.....

(1)	(2)	(3)	(4)	(5)	(6)	(7)
<b>SCI-Kota</b>						
1973	302	281	691	-	-	1,274
1974	313	283	731	-	-	1,327
1975	300	275	696	-	-	1,271
1976	280	310	781	-	-	1,371
<b>ISEL-Kanpur</b>						
1973	215	222	883	2	1	1,323
1974	161	205	852	-	-	1,233
1975	185	208	842	-	-	1,235
1976	179	224	835	-	-	1,239
<b>ZACL-Goa</b>						
1973	194	76	212	69	2	553
1974	184	81	231	-	1	497
1975	200	81	233	275	-	789
1976	205	85	225	125	-	640
<b>SPIC-Tuticorin</b>						
1973	-	-	-	-	-	-
1974	-	-	-	-	-	-
1975	234	451	450	7	-	1,142
1976	250	252	660	80	12	1,264
<b>Mangalore</b>						
1973	-	-	-	-	-	-
1974	-	-	-	-	-	-
1975	-	-	-	-	-	-
1976	138	95	349	-	-	582
<b>Coop. Sector</b>						
<b>IFFCO</b>						
1973	-	-	-	-	-	-
1974	234	194	652	-	16	1,096
1975	227	293	724	-	10	1,254
1976	277	273	1,074	64	2	1,690
<b>Total</b>						
<b>Pub. Sector.</b>						
1973	6099	6,507	25,725	47	3	38,381
1974	6396	6,603	25,920	103	1	39,023
1975	6353	6,787	26,588	123	-	39,851
1976	6490	6,175	28,805	5	-	41,475
<b>Pvt. Sector</b>						
1973	1486	1,639	4,888	171	5	8,189
1974	1536	1,647	5,084	347	2	8,616
1975	1785	2,154	5,545	633	1	10,118
1976	1997	2,130	6,563	504	13	11,007
<b>Coop. Sector</b>						
1973	-	-	-	-	-	-
1974	234	194	652	-	16	1,096
1975	227	293	724	-	10	1,254
1976	277	273	1,074	64	2	1,690
<b>Grand Total</b>						
1973	7585	8,146	30,613	218	8	46,570
1974	8166	8,444	31,656	450	19	48,735
1975	8365	9,234	32,837	756	11	51,223
1976	8764	8,578	36,242	573	15	53,172

WORLD STATISTICS OF FERTILIZERS AT A GLANCE

(000 tonnes)

Years	PRODUCTION			CONSUMPTION			IMPORTS			EXPORTS		
	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
1950-51	4011	5770	4501	3930	5708	4140	NA	NA	NA	NA	NA	NA
1951-52	4462	5968	4938	4234	5750	4574	NA	NA	NA	NA	NA	NA
1952-53	4809	6166	5431	4703	6147	4885	NA	NA	NA	NA	NA	NA
1953-54	5205	6602	5680	5013	6507	5142	NA	NA	NA	NA	NA	NA
1954-55	6730	7720	6800	6230	7580	6450	1610	770	2320	1630	750	2370
1955-56	7200	8030	7140	6630	7840	6830	1670	750	2570	1710	850	2620
1956-57	7730	8260	7610	7300	8220	7130	1780	840	2780	1960	990	2850
1957-58	8530	8610	7710	7870	8520	7390	1940	940	2800	2350	1050	2890
1958-59	9390	9120	8160	8730	9080	7900	2140	990	3060	2460	1030	3010
1959-60	9780	9730	8640	9140	9600	8220	2280	1140	3480	2700	1170	3420
1960-61	10920	10100	8770	10210	9970	8500	2340	1140	3860	2680	1210	3720
1961-62	11950	10420	9350	10980	10430	8670	2440	1310	3730	3070	1380	3720
1962-63	13230	11120	9820	12390	11100	9280	2620	1450	4000	3170	1430	4020
1963-64	14920	12460	10800	13980	12250	10030	3010	1650	4630	3340	1640	4850
1964-65	16784	13955	12129	15315	13391	10944	2979	1772	5172	3507	1682	5155
1965-66	20015	15694	13933	18828	14949	12281	4046	1794	5918	4085	1802	5979
1966-67	22437	17036	14620	21776	16112	13092	5038	2049	6534	4940	2266	6691
1967-68	25527	18011	15351	23918	16936	14120	5596	2622	7703	5561	2847	7787
1968-69	28374	18499	15968	26591	18156	14762	6263	2546	7997	6558	2898	8323
1969-70	30147	19188	16896	28677	18302	15569	6454	2658	8824	6348	2713	9060
1970-71	32967	20673	17867	31824	19316	15679	6763	2639	9239	6774	2809	9473
1971-72	34835	22360	19466	33324	21032	17605	6834	3053	10098	7159	3345	10412
1972-73	37789	23707	20203	35771	22569	18848	7350	3553	10344	8147	3910	11237
1973-74	40493	25147	22221	38657	24255	20636	7955	3908	12694	8022	4189	12660

NA : Not available.

Source: Annual Fertilizer Review (FAO) - 1974.

## FERTILIZER CAPACITY PROJECTIONS FOR VARIOUS REGIONS OF THE WORLD

(Million Tonnes)

Region	1974 - 75			1975 - 75			1976 - 77			1977 - 78		
	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
<u>Developed</u>	35.04	15.78	17.16	36.52	17.33	17.70	40.02	17.83	17.92	43.52	18.37	18.24
North America	14.82	8.70	9.92	16.00	9.31	9.92	13.60	9.31	9.92	21.10	9.85	10.06
Western Europe	15.30	5.44	6.44	19.50	6.36	6.85	16.40	6.41	7.07	17.40	6.41	7.24
Oceania	0.37	0.23	-	0.37	0.23	0.03	0.37	0.23	0.03	0.37	0.23	0.03
Others	4.55	1.41	0.80	4.65	1.43	0.90	4.65	1.88	0.90	4.65	1.88	0.90
<u>Developing</u>	8.28	5.53	0.50	9.55	4.98	0.50	12.62	6.41	0.50	16.79	7.06	0.50
Africa	0.39	1.00	0.50	0.39	1.95	0.50	0.44	2.44	0.50	0.71	2.94	0.50
Latin America	2.38	0.83	-	2.71	1.28	-	3.25	1.72	-	4.28	1.72	-
Near East	1.65	0.67	-	1.77	0.70	-	2.27	1.08	-	3.29	1.08	-
Far East	3.86	1.04	-	4.68	1.05	-	6.66	1.20	-	8.51	1.32	-
<u>Centrally planned</u>	22.26	5.88	11.15	24.43	5.95	11.55	27.09	6.14	12.25	28.49	6.14	12.75
Asia	4.33	0.06	0.15	5.04	0.07	0.15	6.50	0.15	0.15	7.70	0.15	0.15
Europe & USSR	17.33	5.82	11.00	19.44	5.88	11.40	20.59	5.99	12.10	20.79	5.99	12.60
World Total	65.53	25.41	28.81	70.55	23.26	23.75	79.73	30.44	30.67	88.80	31.37	31.49

Region	1978 - 79			1979-80			1980-81		
	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
14.	15.	16.	17.	18.	19.	20.	21.	22.	
<u>Developed</u>	44.42	18.60	18.62	45.92	18.75	19.09	46.42	18.75	19.61
North America	21.10	10.03	10.17	21.50	10.23	10.42	21.50	10.23	10.62
Western Europe	19.30	6.41	7.51	19.10	6.41	7.72	19.60	6.41	7.93
Oceania	0.37	0.23	0.04	0.37	0.23	0.05	0.37	0.23	0.06
Others	4.65	1.83	0.90	4.95	1.33	0.90	4.95	1.33	1.00
<u>Developing</u>	21.31	7.23	0.55	24.25	7.49	0.65	25.42	7.49	0.80
Africa	0.98	2.94	0.50	0.98	2.94	0.50	0.98	2.94	0.50
Latin America	4.62	1.72	0.05	5.46	1.93	0.10	5.59	1.93	0.20
Near East	4.52	1.03	-	4.84	1.03	0.05	5.64	1.03	0.10
Far East	11.19	1.49	-	12.97	1.49	-	13.21	1.49	-
<u>Centrally planned</u>	30.64	6.14	13.25	34.60	6.14	14.35	35.34	6.14	15.90
Asia	3.74	0.15	0.15	9.65	0.15	0.15	9.87	0.15	0.15
Europe & USSR	21.90	5.99	13.10	24.95	5.99	14.20	25.47	5.99	15.75
World Total	96.37	31.97	32.42	104.77	32.33	34.09	107.13	32.33	36.31

Source : Annual Fertilizer Review (1974) F.A.O.

**NITROGENOUS FERTILIZERS SUPPLIES AND DEMAND PROJECTIONS FOR VARIOUS REGIONS  
OF THE WORLD**

(Million Tonnes of N<sub>2</sub>)

Region	1974 - 75		1975 - 76		1976 - 77		1977 - 78		1978 - 79		1979 - 80		1980 - 81	
	S	D	S	D	S	D	S	D	S	D	S	D	S	D
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.
<u>Developed</u>	22.1	13.3	22.9	19.4	24.1	20.3	26.1	21.4	27.0	22.4	27.6	23.3	29.1	24.3
North America	9.3	9.3	9.3	9.6	10.6	10.1	12.2	10.6	12.7	11.2	12.9	11.7	13.1	12.2
Western Europe	9.9	3.1	10.2	3.4	10.6	3.3	10.9	9.2	11.3	9.6	11.7	10.0	12.1	10.4
Oceania	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Others	2.7	1.2	2.7	1.2	2.7	1.2	2.3	1.3	2.7	1.3	2.7	1.3	2.6	1.4
<u>Developing</u>	4.3	7.6	5.2	3.5	6.5	9.6	7.3	10.7	9.6	11.9	11.2	13.1	12.2	14.1
Africa	0.2	0.5	0.2	0.5	0.2	0.6	0.3	0.7	0.4	0.7	0.5	0.3	0.6	0.9
Latin America	1.1	2.0	1.4	2.2	1.9	2.4	1.9	2.6	2.1	2.3	2.2	3.0	2.3	3.2
Near East	0.9	1.1	1.0	1.3	1.2	1.4	1.4	1.7	1.9	1.9	2.4	2.1	2.6	2.2
Far East	2.1	4.0	2.6	4.5	3.4	5.2	4.2	5.3	5.2	6.5	6.1	7.2	6.7	7.3
<u>Centrally Planned</u>	15.1	14.9	16.0	16.0	17.3	17.2	13.4	13.4	19.5	19.7	20.4	20.3	22.0	22.2
Asia	3.4	4.2	3.6	4.5	4.6	5.0	4.3	5.5	5.5	6.1	6.0	6.6	6.5	7.1
Europe & USSR	11.7	10.7	12.4	11.5	13.2	12.2	13.6	12.9	14.0	13.6	14.4	14.3	15.5	15.1
World Total	41.5	41.3	44.1	43.9	47.9	47.1	52.3	50.5	56.1	54.0	59.2	57.3	62.3	60.6

S = Supply

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 PHOSPHATIC FERTILIZERS SUPPLIES AND DEMAND PROJECTIONS FOR VARIOUS REGIONS  
 OF THE WORLD

(Million Tonne of P<sub>2</sub>O<sub>5</sub>)

Region	1974 - 75		1975 - 76		1976 - 77		1977 - 78		1978 - 79		1979 - 80		1980 - 81	
	S	D	S	D	S	D	S	D	S	D	S	D	S	D
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.
<u>Developed</u>	16.35	14.10	17.06	14.60	13.06	15.10	13.60	15.60	13.72	16.10	13.36	16.60	12.95	17.10
North America	6.90	5.10	7.31	5.40	7.30	5.70	3.07	6.00	3.17	6.30	3.41	6.60	3.50	6.80
Western Europe	6.60	6.20	6.99	6.40	7.29	6.60	7.44	6.70	7.35	6.30	7.25	7.00	7.25	7.10
Oceania	1.53	1.60	1.43	1.60	1.53	1.60	1.53	1.60	1.53	1.70	1.53	1.70	1.53	1.83
Others	1.27	1.20	1.23	1.20	1.39	1.20	1.51	1.30	1.62	1.30	1.62	1.30	1.62	1.40
<u>Developing</u>	2.80	3.73	3.42	4.05	4.03	4.32	4.90	4.66	5.42	4.93	5.66	5.47	5.86	5.66
Africa	0.30	0.33	1.03	0.35	1.41	0.37	1.37	0.40	2.10	0.43	2.24	0.47	2.24	0.51
Latin America	0.90	1.50	0.93	1.60	1.05	1.70	1.34	1.30	1.44	1.90	1.43	2.10	1.57	2.20
Near East	0.50	0.60	0.62	0.65	0.31	0.70	0.82	0.30	0.91	0.35	0.91	0.90	0.91	0.95
Far East	0.60	1.35	0.79	1.45	0.81	1.55	0.37	1.66	0.97	1.30	1.03	2.00	1.14	2.20
<u>Centrally Planned</u>	7.82	7.30	3.43	7.85	3.63	3.30	3.69	3.70	3.64	9.30	3.54	9.70	3.44	10.10
Asia	0.96	1.60	1.20	1.75	1.37	1.90	1.39	2.00	1.41	2.10	1.41	2.20	1.41	2.30
Europe & USSR	6.86	5.70	7.23	6.10	7.26	6.40	7.30	6.70	7.23	7.20	7.13	7.50	7.03	7.80
World Total	26.97	25.13	23.91	26.50	30.77	27.72	32.19	23.96	32.78	30.33	33.06	31.77	33.25	33.06

S = Supply  
 D = Demand

Source: FAO Annual Fertilizer Review (1974)



POTASSIC FERTILIZERS SUPPLIES AND DEMAND PROJECTIONS FOR VARIOUS REGIONS  
OF THE WORLD

(Billion Tonnes of 120)

Region	1974 - 75		1975 - 76		1976 - 77		1977 - 78		1978 - 79		1979 - 80		1980 - 81	
	S	D	S	D	S	D	S	D	S	D	S	D	S	D
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.	14.	15.
<u>Developed</u>	13.70	11.89	14.53	12.31	15.25	12.71	15.00	13.22	16.30	13.63	16.83	14.34	17.17	15.06
North America	7.70	5.70	8.00	5.30	8.40	5.50	8.70	5.70	9.10	6.00	9.30	6.50	9.50	6.90
Western Europe	5.40	5.70	5.80	5.80	6.10	6.00	6.20	6.20	6.40	6.30	6.70	6.50	6.80	6.70
Oceania	-	0.20	0.03	0.31	0.05	0.31	0.04	0.32	0.04	0.33	0.05	0.34	0.06	0.35
Others	0.60	0.90	0.70	0.90	0.72	0.90	0.74	1.00	0.76	1.00	0.73	1.00	0.80	1.10
<u>Developing</u>	0.28	2.25	0.30	2.51	0.31	2.85	0.32	3.12	0.33	3.37	0.47	3.62	0.55	3.97
Africa	0.28	0.20	0.30	0.24	0.31	0.23	0.32	0.34	0.33	0.33	0.34	0.42	0.35	0.46
Latin America	-	1.10	-	1.20	-	1.30	-	1.40	0.05	1.50	0.03	1.60	0.15	1.80
Near East	-	0.05	-	0.07	-	0.07	-	0.03	-	0.09	0.05	0.10	0.05	0.11
Far East	-	0.09	-	1.00	-	1.20	-	1.30	-	1.40	-	1.50	-	1.60
<u>Centrally Planned</u>	9.45	7.74	10.45	8.15	11.20	8.63	11.95	9.11	12.35	9.55	13.30	9.99	14.4	10.43
Asia	0.15	0.60	0.15	0.65	0.15	0.63	0.15	0.71	0.15	0.75	0.15	0.73	0.15	0.83
Europe & USSR	9.30	7.14	10.30	7.50	11.05	8.00	11.80	8.40	12.20	9.40	13.15	9.80	14.25	9.60
World Total	23.43	21.33	25.23	22.87	26.76	24.24	27.95	25.45	29.03	26.55	30.60	27.95	32.11	29.46
Available World Supply	22.14	21.88	22.87	22.97	23.29	24.24	25.41	25.45	27.43	26.55	23.92	27.95	30.34	29.46

S = Supply  
D = Demand

Source : FAO Annual Fertilizer Review (1974)

## NITROGENOUS FERTILIZERS - PRODUCTION AND CONSUMPTION

('000' Tonnes N<sub>2</sub>)

Continent/Country	P R O D U C T I O N				C O N S U M P T I O N			
	1970-71	1971-72	1972-73	1973-74	1970-71	1971-72	1972-73	1973-74
<u>Europe</u>	11772.5	12238.0	13046.2	13724.4	9690.5	10206.9	10670.1	11214.0
Belgium	593.7	609.9	638.5	652.3	167.2	167.2	166.8	165.2
Denmark	73.7	75.1	77.2	83.2	289.3	308.3	329.5	365.0
France	1351.1	1416.8	1476.5	1636.4	1453.4	1524.8	1588.0	1833.1
German DR	395.2	388.2	428.2	410.8	511.2	576.7	657.9	666.1
German FR	1504.6	1320.8	1470.6	1473.0	1130.8	1131.1	1189.0	1100.8
Italy	955.8	1034.2	1045.5	1111.1	594.5	624.9	691.8	672.2
Netherlands	956.9	1038.0	1216.6	1212.7	405.3	373.6	376.3	396.7
Poland	1029.9	1080.8	1147.3	1365.6	822.4	907.1	979.2	1069.2
Sweden	163.0	177.1	169.5	178.3	225.6	233.8	232.9	263.5
UK	747.8	772.2	751.2	755.4	800.8	930.1	789.2	874.4
Yugoslavia	266.4	334.6	359.9	350.2	293.6	333.1	370.0	368.0
<u>USSR</u>	5423.0	6055.0	6551.0	7241.0	4605.0	5182.0	5624.0	6256.0
<u>North &amp; Central America</u>	9385.6	9359.0	9713.0	10447.7	8468.3	8470.7	8747.1	9711.2
Canada	726.2	805.0	771.6	789.0	291.8	350.0	409.8	498.0
USA	8161.0	8091.0	8433.0	9152.0	7378.6	7272.0	7525.3	8277.0
<u>South America</u>	250.6	332.6	336.1	422.9	560.6	596.3	817.0	868.1
<u>Asia</u>	5587.7	6241.5	7407.4	8015.1	7498.7	7753.7	8599.8	9276.3
India	830.0	952.0	1060.0	1060.0	1479.0	1798.0	1839.0	1829.0
Japan	2105.1	1915.0	2199.0	2162.0	872.5	676.0	733.0	821.0
Pakistan	140.3	215.2	274.4	299.9	251.5	344.0	386.2	341.9
China	1426.0	1853.0	2245.0	2731.0	3115.0	3141.0	3459.0	3815.0
<u>Oceania</u>	145.0	176.0	182.0	197.2	157.8	138.1	206.3	217.7
Australia	145.0	176.0	182.0	197.2	144.0	120.0	165.0	176.0
Newzealand	-	-	-	-	7.9	9.9	31.8	32.4
All World	32967.3	34885.0	37789.5	40497.9	31824.0	33324.2	35770.7	38656.8

Source: Annual Fertilizer Review 1974 - FAO

PHOSPHATIC FERTILIZERS PRODUCTION & CONSUMPTION ('000' Tonnes of P<sub>2</sub>O<sub>5</sub>)

Continent/Country	P R O D U C T I O N					C O N S U M P T I O N				
	1969-70	1970-71	1971-72	1972-73	1973-74	1969-70	1970-71	1971-72	1972-73	1973-74
<u>Europe</u>	7478.8	7968.6	8383.2	8717.8	8885.5	7307.5	7704.2	3070.8	8396.1	8719.1
Belgium	-	-	-	-	-	144.0	143.3	149.1	148.8	165.7
Denmark	94.7	94.5	95.9	96.8	103.7	126.8	126.8	135.3	143.5	155.3
France	1324.3	1450.8	1577.1	1611.5	1693.3	1683.7	1809.4	1932.1	2067.4	2152.4
German DR	395.1	429.5	414.2	409.4	402.7	389.2	410.0	385.6	430.4	430.6
German FR	919.4	945.8	975.9	986.0	962.1	856.6	915.1	934.9	902.6	916.7
Italy	540.3	509.9	504.0	500.0	450.1	486.2	518.4	574.5	583.2	472.2
Netherlands	283.9	275.2	294.8	351.5	349.8	107.0	109.3	101.3	100.9	107.0
Poland	533.6	599.2	705.6	763.0	813.6	595.4	635.1	718.6	781.7	847.2
Sweden	142.7	137.3	165.1	181.4	175.5	139.2	146.2	153.6	150.0	160.0
UK	433.9	523.6	462.4	444.2	417.0	460.4	542.6	511.6	461.8	478.2
Yugoslavia	143.9	232.9	230.3	231.1	268.5	182.7	182.3	174.6	203.0	193.5
<u>USSR</u>	2072.0	2500.0	2772.0	2929.0	3236.0	1916.0	2211.0	2442.0	2594.0	2699.0
<u>N &amp; C America</u>	5571.4	6062.0	6494.5	6762.4	7002.3	4713.2	4969.9	5046.1	5332.2	5419.0
Canada	450.4	560.0	721.0	739.0	720.0	284.0	326.0	339.0	415.3	480.0
USA	5001.0	5369.0	5601.0	5795.0	6013.0	4144.7	4357.6	4420.8	4613.3	4500.0
<u>S. America</u>	159.4	231.8	304.1	331.6	478.1	486.3	630.4	706.3	938.7	1048.4
<u>Asia</u>	2030.3	2128.4	2484.8	2718.1	3016.3	2674.3	2680.4	3031.6	3409.3	4032.3
India	222.0	229.0	278.0	326.0	323.0	416.0	541.0	558.0	581.0	650.0
Japan	729.5	665.3	685.3	728.9	735.8	702.1	655.9	661.4	729.7	792.8
Pakistan	4.1	4.5	4.9	8.5	4.0	33.8	30.5	37.2	48.7	58.0
China	694.0	781.2	916.0	1031.0	1314.3	730.0	730.0	917.0	1043.5	1389.7
Coccatia	1133.7	1016.0	1103.3	1250.0	1588.9	1198.6	1065.6	1124.1	1232.9	1617.7
Australia	804.1	694.7	762.0	900.0	1163.9	862.2	743.2	775.3	880.0	1170.6
New Zealand	329.6	321.3	341.3	350.0	420.0	335.2	321.1	347.0	350.0	445.0
All World	19187.6	20673.5	22368.9	23706.8	25146.7	18802.2	19815.8	21092.2	22566.8	24255.1

Source: Annual Fertilizer Review 1974 - FAO

## POTASSIUM FERTILIZERS PRODUCTION &amp; CONSUMPTION

('000' Tonnes of K<sub>2</sub>O)

Continent/Country	Production		Consumption		Stock	
	1970-71	1971-72	1972-73	1973-74	1970-71	1971-72
<u>Europe</u>	7135.7	7342.6	7405.0	7288.5	6941.7	7988.7
Belgium	-	-	-	-	187.2	171.0
Denmark	-	-	-	-	162.6	191.0
France	1775.4	1841.9	1827.0	1664.5	1272.4	1503.0
German DR	2346.0	2419.0	2426.0	2556.0	623.6	638.8
German FR	2292.9	2405.1	2487.3	2538.9	1120.1	1233.5
Italy	166.5	155.0	157.2	130.6	194.5	250.4
Netherlands	0.9	0.9	1.4	3.6	121.7	127.9
Poland	-	-	-	-	1035.9	1262.6
Sweden	-	-	-	-	126.8	135.8
UK	-	-	-	-	461.5	496.5
Yugoslavia	-	-	-	-	117.4	161.6
<u>USSR</u>	3244.0	4087.0	4807.0	5453.0	2319.0	2783.0
<u>N &amp; C America</u>	5771.2	5437.8	6127.0	6261.0	4110.4	4331.7
Canada	3566.2	3178.8	3920.0	3820.0	174.6	190.5
USA	2205.0	2259.0	2207.0	2441.0	3661.1	3929.9
<u>S. America</u>	15.7	16.4	20.9	16.1	281.8	447.5
<u>Asia</u>	664.9	816.4	832.0	921.6	1508.0	1587.3
India	14.0	14.0	36.0	88.0	210.0	300.0
Japan	-	-	-	-	668.3	577.6
Pakistan	-	-	-	-	1.3	0.7
China	230.0	241.0	280.0	300.0	300.0	345.0
Oceania	-	-	-	-	194.5	193.9
Australia	-	-	-	-	95.0	76.2
New Zealand	-	-	-	-	98.8	116.4
All Fertilizer Producing Countries	16896.4	17856.6	19466.2	20203.5	15569.3	16678.8
All Fertilizer Consuming Countries	-	-	-	-	15569.3	17605.2
Stocks at end of 1971-72	-	-	-	-	8135.3	8677.1

Source: Annual Fertilizer Review 1974 - FAO

FERTILIZER CONSUMPTION PER HECTARE OF ARABLE/  
AGRICULTURAL LAND & PER CAPITA DURING 1973-74

(Kilograms)

Continent/ Country	ARABLE LAND				AGRICULTURAL LAND				Per Capita N-P-K TOTAL
	N	P	K	TOTAL	N	P	K	TOTAL	
AFRICA	5.3	3.4	1.5	10.2	1.1	10.7	0.3	2.1	5.8
Algeria	13.8	13.9	5.6	31.8	2.1	2.1	0.9	4.9	13.9
Angola	13.7	9.0	0.7	31.3	0.4	0.3	0.5	0.9	4.6
Botswana	2.7	11.7	0.0	14.1	0.0	0.1	0.0	0.2	10.8
Burundi	0.5	0.3	0.2	1.0	0.4	0.2	0.1	0.7	0.3
Cameroon	1.3	0.3	0.6	2.2	0.6	0.1	0.3	1.0	2.6
CAR	0.2	0.1	0.1	0.3	0.2	0.1	0.1	0.3	1.0
CHAD	0.3	0.2	0.2	0.7	0.0	0.0	0.0	0.1	0.2
Congo	1.5	0.2	5.3	8.1	0.1	0.0	0.3	0.3	5.1
Dahome	0.8	1.0	1.0	2.8	0.7	0.8	0.8	2.2	1.5
Egypt	133.2	26.3	1.1	160.6	133.2	26.3	1.1	160.6	12.4
Eq. Guinea	2.7	0.0	0.0	2.7	1.2	0.0	0.0	1.3	2.0
Ethiopia	0.7	0.7	0.0	1.4	0.1	0.1	0.0	0.2	0.7
Gambia	1.5	3.1	0.0	4.6	0.5	1.0	0.0	1.5	2.4
Ghana	0.4	1.0	0.8	2.1	0.1	0.2	0.2	0.4	0.5
Guinea	0.5	0.1	0.1	0.7	0.2	0.0	0.0	0.2	0.2
Ivory Coast	0.7	0.8	1.7	3.2	0.4	0.4	0.9	1.7	6.1
Kenya	12.2	12.4	1.6	26.1	3.5	3.7	0.5	7.8	3.6
Lesotho	0.6	1.0	0.0	1.6	0.1	0.1	0.0	0.2	0.5
Liberia	6.0	2.0	1.0	9.0	3.6	1.2	0.6	5.4	2.6
Libyan AR	2.3	2.1	0.5	5.6	0.7	0.6	0.1	1.5	6.9
Madagascar	1.2	1.2	1.6	4.6	0.1	0.1	0.1	0.4	1.7
Malawi	2.7	1.1	0.7	4.8	1.6	0.8	0.4	2.9	2.9
Mali	0.4	0.3	0.0	0.8	0.1	0.1	0.0	0.2	1.6
Mauritius	105.5	31.3	10.0	246.8	93.9	23.4	10.2	231.5	30.2
Morocco	9.0	6.1	3.4	18.4	3.4	2.3	1.3	6.9	7.8
Mozambique	3.0	1.1	0.6	4.6	0.2	0.1	0.0	0.3	1.7
Nigeria	0.2	0.2	0.1	0.5	0.1	0.1	0.1	0.3	0.2
Reunion	103.9	62.5	20.4	231.6	95.3	54.7	17.3	220.3	23.7
Rhodesia	53.1	24.0	17.4	79.5	10.5	6.6	4.0	21.3	25.0
Rwanda	0.5	0.1	0.8	1.4	0.2	0.1	0.1	0.3	0.3
Senegal	1.3	1.4	1.4	4.1	0.6	0.6	0.6	1.8	5.5
Sierra Leone	0.3	0.3	0.1	0.8	0.2	0.2	0.1	0.5	1.0
Somalia	1.3	0.5	0.6	2.4	0.1	0.0	0.0	0.1	0.3
S. Africa	17.6	25.0	9.6	52.2	2.1	3.4	1.5	7.0	31.5
Sudan	9.3	0.0	0.0	9.8	2.2	0.0	0.0	2.3	4.0
Swaziland	25.2	6.5	15.3	43.3	2.9	0.7	1.0	3.5	17.9
Tanzania	0.8	0.4	0.2	1.5	0.2	0.1	0.1	0.3	0.4
Togo	0.1	0.1	0.1	0.3	0.1	0.1	0.1	0.3	0.3
Tunisia	4.2	4.0	1.5	9.6	2.4	2.3	0.9	5.5	7.3
Uganda	0.3	0.5	0.2	1.5	0.4	0.2	0.1	0.7	0.8
Upper Volta	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.1
Zaire	0.4	0.2	0.3	0.9	0.1	0.0	0.1	0.2	0.4
Zambia	5.0	2.4	0.9	8.4	0.6	0.3	0.1	1.0	8.5

(Kilograma)

Continent/ Country	ARABLE LAND				AGRICULTURAL LAND				Per Capita
	N	P	K	TOTAL	N	P	K	TOTAL	N + P + K TOTAL
<u>N&amp;C America</u>	35.6	19.9	18.5	74.0	15.5	8.7	8.1	32.3	60.3
Barabados	84.2	7.7	109.2	201.2	73.0	6.7	94.7	174.3	21.7
Belize	13.8	33.6	8.1	55.5	10.1	24.7	6.0	40.8	13.3
Canada	11.4	11.0	4.7	27.0	7.3	7.0	3.0	17.2	53.5
Costa Rica	69.4	20.4	40.8	130.6	16.6	4.9	9.3	31.3	33.9
Cuba	36.3	14.0	26.9	77.1	21.6	8.3	16.0	46.0	31.3
Dominican RP	42.5	16.3	22.0	80.8	17.2	6.6	8.9	32.8	16.5
EL Salvador	104.5	48.8	12.3	165.6	51.7	24.2	6.1	81.9	23.2
Guadeloupe	72.7	69.1	60.0	201.3	55.6	52.8	45.8	154.2	32.5
Guatemala	21.6	8.8	3.0	33.3	12.8	5.2	1.8	19.8	8.9
Haiti	1.9	0.5	1.4	3.8	0.8	0.2	0.6	1.6	0.3
Honduras	17.0	2.4	9.7	29.2	3.3	0.5	1.9	5.7	8.0
Jamaica	45.6	14.9	29.0	89.6	22.5	7.4	14.3	44.3	10.2
Martinique	160.7	139.3	157.1	457.1	34.9	73.6	83.0	241.5	36.6
Mexico	19.3	6.6	1.3	27.2	5.5	1.9	0.4	7.7	13.3
Nicaragua	30.4	12.5	12.9	55.9	9.8	4.0	9.2	18.0	18.7
St. Kitts etc.	14.3	14.3	228.6	257.1	13.3	13.3	213.3	248.0	47.4
St. Lucia	71.4	61.9	142.9	276.2	62.5	54.2	125.0	241.7	52.7
St. Vincent	94.4	16.7	111.1	222.2	89.5	15.8	105.3	210.5	40.0
Trinidad etc.	50.4	9.3	34.6	94.8	48.3	9.4	33.2	90.9	12.4
USA	43.3	24.1	24.1	91.5	19.0	10.6	10.6	40.2	83.1
Virginisus	66.7	93.3	5.0	105.0	26.7	13.3	2.0	42.0	10.0
<u>South America</u>	9.7	11.7	7.4	28.8	1.8	2.2	1.4	5.4	12.5
Argentina	2.0	1.1	0.6	3.7	0.3	0.2	0.1	0.6	3.8
Bolivia	1.6	0.7	0.4	2.8	0.2	0.1	0.0	0.3	1.6
Brazil	12.5	21.3	15.3	49.1	3.0	5.1	3.7	11.8	16.5
Chile	10.5	20.4	2.4	33.3	3.4	6.7	0.8	11.0	18.4
Colombia	30.4	19.8	11.5	61.7	6.9	4.5	2.6	14.1	13.7
Ecuador	7.5	3.9	2.3	13.7	4.8	2.5	1.4	8.7	7.3
Guyana	11.1	0.1	2.8	14.0	2.8	0.0	0.7	3.6	14.2
Paraguay	1.0	0.2	1.7	2.9	0.1	0.0	0.1	0.2	1.1
Peru	28.5	3.3	2.8	34.6	2.7	0.3	0.3	3.2	6.5
Surinam	60.5	30.5	10.5	81.6	48.9	8.5	8.5	66.0	7.2
Uruguay	6.3	15.9	3.8	26.0	0.7	1.9	0.5	3.1	16.1
Venezuela	7.8	4.5	4.0	16.3	2.1	1.2	1.1	4.5	7.2
<u>ASIA</u>	19.5	8.5	4.3	32.3	9.2	4.0	2.1	15.2	7.1
Afghanistan	3.8	0.9	0.0	4.7	2.2	0.5	0.0	2.7	2.0
Bangladesh	13.4	4.8	1.2	19.4	12.6	4.5	1.1	18.2	2.1
Burma	2.2	0.8	0.0	3.0	2.2	0.8	0.0	2.9	1.9
Cambodia	0.5	0.5	0.0	1.1	0.4	0.4	0.0	0.8	0.3
China	30.0	10.9	4.2	45.1	11.7	4.2	1.6	17.5	7.0

Contd...../-

<u>Continent/ Country</u>	<u>ARABLE LAND</u>				<u>AGRICULTURAL LAND</u>				<u>Per Capita N + P + TOTAL</u>
	N	P	K	TOTAL	N	P	K	TOTAL	
Cyprus	26.9	18.8	5.0	50.6	22.1	15.4	4.1	41.7	34.2
India	11.1	3.8	1.9	16.9	10.3	3.6	1.8	15.6	4.8
Indonesia	19.3	4.7	2.2	26.3	12.5	3.0	1.4	17.0	3.6
Iran	10.9	7.1	0.1	18.1	6.5	4.2	0.0	10.7	9.4
Iraq	5.0	3.0	0.2	8.3	5.0	3.0	0.2	8.2	3.8
Israel	72.7	36.1	27.3	136.1	24.6	12.2	9.2	46.0	18.2
Japan	155.0	149.7	129.3	434.1	144.4	139.5	120.5	404.4	21.4
Jordan	0.8	0.5	0.3	1.6	0.7	0.5	0.3	1.5	0.8
Korea DPR	126.7	59.2	23.4	209.4	123.5	57.7	22.8	204.0	26.3
Korea Rep.	172.3	82.1	62.8	317.2	171.0	81.5	62.3	314.8	21.9
Laos	0.1	0.1	0.0	0.2	0.1	0.1	0.0	0.1	0.1
Lebanon	111.9	68.7	30.2	210.8	108.7	66.8	29.4	204.9	23.8
Mal Sabah	5.9	2.5	16.6	22.4	5.8	2.5	16.1	21.8	7.3
Mal Sarawak	12.3	4.2	8.6	25.1	11.9	4.0	8.3	24.2	9.6
Mal W. Malays	37.1	12.0	36.7	85.8	36.7	11.9	36.3	84.9	24.7
Mongolia	1.9	4.9	0.1	7.0	0.0	0.0	0.0	0.0	3.9
Nepal	4.5	2.2	0.3	7.1	3.0	1.5	0.2	4.7	1.2
Pakistan	17.6	3.0	0.1	20.8	14.0	2.4	0.1	16.5	5.9
Philippines	13.1	4.1	4.0	21.2	12.2	3.8	3.7	19.7	5.6
Saudi Arabia	400.0	124.2	320.0	844.2	133.3	41.4	106.7	281.4	1.0
Singapore	90.9	90.9	90.9	272.7	90.9	90.9	90.9	272.7	1.3
Sri Lanka	25.9	6.1	16.0	47.9	21.2	5.0	13.1	39.2	7.0
Syrian Aret	5.7	1.3	0.3	7.2	2.7	0.6	0.1	3.4	6.2
Thailand	5.0	3.2	2.9	11.1	4.9	3.1	2.8	10.9	3.9
Turkey	15.2	9.9	0.5	25.6	7.9	5.2	0.2	13.3	18.7
Vietnam DR	7.4	24.8	2.7	34.8	3.7	12.4	1.3	17.5	3.1
Vietnam Rep.	33.9	10.4	5.5	49.8	17.8	5.5	2.9	26.2	8.5
Yemen AR	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.1
<u>Europe</u>	78.3	60.9	60.6	199.7	48.5	37.7	37.5	123.8	60.9
Albania	61.9	37.6	2.0	101.5	29.0	16.8	0.9	46.7	25.2

Contd.../-

(Kilograms)

Continent/ Country	ARABLE LAND				AGRICULTURAL LAND				Per Capita
	N	P	K	TOTAL	N	P	K	TOTAL	N + P + K Total.
Austria	81.9	71.8	93.7	252.4	34.8	30.5	41.9	107.3	54.1
Belgium	197.9	198.4	231.0	627.3	105.4	105.7	123.0	334.1	53.7
Bulgaria	72.9	57.5	10.2	140.6	54.8	43.2	7.7	105.8	73.4
Czechoslovakia	84.3	74.0	103.5	266.8	63.4	55.7	81.6	200.7	97.1
Denmark	136.8	58.2	80.8	275.9	122.2	52.0	72.2	246.5	146.3
Finland	76.0	72.7	58.7	207.4	74.6	71.3	57.6	203.5	120.8
France	93.4	115.5	97.6	311.5	56.4	66.2	55.9	178.5	111.3
German DR	82.4	53.3	81.5	217.2	49.6	32.1	49.0	130.7	103.4
German FR	226.6	188.7	239.5	654.8	175.1	145.8	185.0	506.0	51.3
Greece	63.8	38.9	6.1	108.8	38.0	23.2	3.6	64.8	44.4
Hungary	83.7	58.0	69.7	216.4	72.1	47.1	55.7	175.9	115.5
Ireland	110.4	160.9	153.7	425.1	26.9	39.2	37.4	103.5	165.4
Italy	54.9	33.9	21.9	115.7	33.4	27.2	15.3	76.0	25.3
Luxembourg	218.8	128.1	128.1	475.0	104.5	61.2	61.2	226.9	77.1
Malta	42.9	1.4	7.1	51.4	42.9	1.4	7.1	51.4	2.2
Netherlands	475.6	128.2	136.8	740.7	304.0	82.2	87.4	473.6	46.0
Norway	100.0	65.7	89.0	262.7	67.2	40.9	55.4	163.4	52.4
Poland	70.3	56.1	93.6	220.4	55.3	43.8	73.1	172.3	99.2
Portugal	36.6	20.2	7.2	64.0	32.2	17.7	6.3	56.3	23.1
Romania	40.2	30.7	5.1	76.0	23.2	21.5	3.6	53.2	38.1
Spain	31.1	22.9	12.6	66.7	22.2	14.9	8.2	45.3	41.9
Sweden	87.3	53.3	47.6	188.2	70.9	43.3	32.6	152.8	69.8
Switzerland	103.2	135.2	141.7	380.0	20.6	25.7	27.0	73.3	23.0
USSR	122.1	66.8	69.5	258.3	46.8	25.6	26.6	99.0	33.1
UK Channel	144.1	103.7	205.4	513.3	100.9	114.6	143.3	359.3	29.2
UK Is. Main	40.0	32.3	27.2	99.6	27.1	21.9	18.4	67.5	37.3
Yugoslavia	45.5	23.9	21.5	90.9	25.5	13.4	12.0	50.9	35.1
<u>Cyprus</u>	4.6	34.3	6.1	45.0	0.4	3.2	0.6	4.3	104.0
Australia	3.9	25.9	2.3	32.1	0.4	2.4	0.2	3.0	110.5
Fiji	46.6	6.7	2.9	56.2	32.2	4.6	2.0	38.9	13.9
New Zealand	38.9	533.6	216.1	768.6	2.4	32.0	13.3	48.7	222.2
Papua N. Guin	5.8	2.6	7.0	15.3	4.8	2.1	5.8	12.7	2.5
U.S.S.R.	27.0	11.6	13.5	54.1	7.2	3.1	4.1	14.4	50.3
<u>World</u>	26.2	16.7	14.0	56.8	8.7	5.4	4.6	18.7	21.8

Source:-

Annual Fertilizer Review - 1974 (FAO)



WORLD TRADE IN FERTILIZERS (IMPORTS) ('000: TONNES)

Continent/Country	1970-71		1971-72		1972-73		1973-74	
	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub> K <sub>2</sub> O	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub> K <sub>2</sub> O	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub> K <sub>2</sub> O	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub> K <sub>2</sub> O
<u>Europe</u>	1548.9	4220.9 4662.5	1705.2	1387.3 4892.7	1933.0	1441.3 5136.1	1752.0	1437.0 5596.2
Belgium	84.8	44.7 305.5	88.1	61.4 306.5	101.5	53.3 318.6	118.5	64.8 361.0
Denmark	227.2	42.5 188.5	221.3	36.1 177.7	271.0	50.4 209.4	255.0	55.0 215.1
France	207.9	339.7 183.1	226.1	367.6 212.0	255.9	400.7 198.6	235.5	403.5 464.5
German DR	160.0	24.3 -	194.0	43.2 -	237.5	61.4 -	237.1	46.5 -
German FR	132.1	98.7 40.6	228.3	121.2 86.7	281.9	116.0 67.1	216.6	130.1 90.5
Italy	83.7	133.5 178.3	101.2	181.5 181.6	86.1	155.6 209.8	39.3	96.6 197.7
Netherlands	14.4	49.7 239.6	13.4	56.9 229.9	31.8	64.3 230.8	50.7	85.7 218.8
Poland	0.1	12.1 1143.8	-	15.1 1172.9	37.4	12.0 1153.4	6.9	0.4 1345.3
Sweden	100.3	11.4 131.4	106.9	11.0 135.6	102.6	12.0 150.9	103.8	11.6 136.9
UK	130.2	62.1 529.6	170.1	81.7 491.9	154.0	69.9 487.5	121.2	60.1 437.6
Yugoslavia	1548.9	1.3 179.6	1705.2	6.5 205.2	1933.0	17.5 224.3	1752.1	13.8 200.5
<u>USSR</u>	-	- -	11.7	9.1 -	13.4	104.0 -	5.0	205.0 -
<u>N. &amp; C. America</u>	1322.3	442.9 2586.2	1267.5	477.0 3039.8	1330.0	493.0 3166.8	1545.4	489.5 4039.7
Canada	12.4	18.0 36.6	15.0	19.1 47.2	13.0	65.0 50.0	24.4	36.8 45.0
USA	842.0	257.0 2278.0	766.0	297.0 2392.0	802.0	286.0 2896.0	959.0	207.0 3741.0
<u>S. America</u>	393.8	395.3 384.7	349.4	399.8 440.8	550.3	606.5 559.5	569.5	539.9 656.5
<u>Asia</u>	3070.7	424.4 1141.3	2853.4	579.0 1150.8	3273.8	814.6 1404.0	3416.6	1052.7 1792.4
India	477.0	32.0 120.0	481.0	248.0 268.0	665.0	204.0 329.0	659.0	213.0 370.0
Japan	-	21.5 632.5	-	20.6 437.1	-	29.9 536.8	28.2	56.7 612.8
Pakistan	102.1	29.5 -	70.5	-	115.6	72.1 -	224.5	5.3 6.3
China	1707.0	2.0 83.8	1304.0	2.0 65.4	1240.0	18.2 84.6	1126.0	77.8 227.8
Oceania	27.6	19.2 199.4	22.9	10.4 201.3	46.3	24.4 255.5	46.7	29.3 298.9
Australia	13.8	15.0 79.2	4.8	6.9 81.6	5.0	10.0 100.0	5.0	1.7 105.2
New Zealand	7.9	2.9 119.4	9.9	1.7 115.4	31.8	11.5 153.9	32.4	21.5 130.3
World Total	6762.9	2638.9 9239.4	6833.5	3053.4 10097.6	7850.4	3653.5 10243.7	7955.1	3900.0 12534.4

Source: Annual Fertilizer Review 1974 - FAO

## WORLD TRADE IN FERTILIZERS (Exports)

('000' Tonnes)

Continent/Country	1970-71			1971-72			1972-73			1973-74		
	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N <sub>2</sub>	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O
<u>Europe</u>	3276.4	1289.4	4109.4	3676.0	1438.4	3830.9	3875.4	1634.0	4292.2	4400.0	1864.3	4332.3
Belgium	475.5	440.4	-	437.7	493.2	-	516.7	471.0	-	549.9	487.7	-
Denmark	-	-	-	-	9.0	-	-	0.9	-	-	4.4	-
France	191.6	97.3	859.1	163.4	89.0	721.3	193.3	112.1	826.7	187.4	126.2	951.2
German FR	483.0	142.2	1176.0	369.7	144.4	1088.3	451.4	173.3	1399.9	524.2	131.5	1383.5
German DR	2.0	-	1739.0	1.3	-	1757.0	1.0	-	1820.0	1.0	-	1819.0
Italy	422.7	70.0	47.1	442.2	67.0	24.2	264.9	35.2	25.6	401.3	37.0	22.6
Netherlands	621.9	209.7	0.3	651.8	255.1	1.4	851.3	297.6	3.6	909.1	345.9	0.2
Poland	136.7	-	-	319.9	-	-	337.8	9.5	-	401.5	35.9	-
Sweden	31.8	5.6	-	29.1	19.6	-	17.1	20.6	-	16.0	36.9	-
UK	26.7	14.3	-	14.8	14.6	-	28.7	32.1	-	85.0	77.9	-
Yugoslavia	6.3	9.6	-	30.0	51.0	-	39.3	66.3	-	50.7	86.6	-
<u>USSR</u>	210.0	132.8	1309.2	188.7	108.9	1611.6	217.8	35.3	1705.6	199.3	92.3	1996.8
<u>N&amp;C America</u>	1563.6	1132.4	3479.3	1536.5	1296.8	4426.0	1771.8	1655.8	4646.0	1516.7	1786.3	6093.6
Canada	414.7	307.4	2916.3	440.0	292.0	3830.0	345.2	300.8	3810.0	712.0	304.5	5234.6
USA	977.0	815.0	583.0	935.0	999.0	595.0	1231.0	1290.0	836.0	1070.0	1412.0	859.0
<u>S. America</u>	73.5	-	10.9	91.2	-	12.7	69.7	3.3	12.2	67.8	3.1	9.8
<u>Asia</u>	1610.1	46.5	563.9	1577.5	84.9	530.5	2164.0	151.6	581.3	1782.7	87.5	427.1
India	-	-	-	-	-	-	-	-	-	-	-	-
Japan	1410.5	27.9	-	1269.0	47.7	-	1661.0	59.3	-	1320.0	25.3	-
Pakistan	6.0	-	-	-	-	-	-	-	-	-	-	-
China	18.2	0.9	-	16.0	0.9	-	34.0	5.7	-	40.0	2.4	-
Oceania	24.0	-	-	56.0	0.1	-	21.0	0.1	-	18.0	-	-
Australia	24.0	-	-	56.0	0.1	-	21.0	0.1	-	18.0	-	-
Newzeland	-	-	-	-	-	-	-	-	-	-	-	-
All World	6774.3	2869.2	9472.7	7159.4	3344.6	10411.7	8147.1	3910.4	11237.2	8021.6	4188.5	12859.7

Source: Annual Fertilizer Review 1974 - FAO

## COUNTRYWISE RANKING OF FERTILISER CONSUMPTION 1974-75

Ranking	N	P <sub>2</sub> O <sub>5</sub>	K <sub>2</sub> O	N+P <sub>2</sub> O <sub>5</sub> +K <sub>2</sub> O
1.	U.S.A. (7,798.3)	U.S.S.R. (4,110.0)	U.S.A. (3986.2)	U.S.A. (15,860.2)
2.	U.S.S.R. (6,746.0)	U.S.A. (4,076.2)	U.S.S.R. (3,708.0)	U.S.S.R. (14,564.0)
3.	China (3,694.0)	France (1,710.8)	Poland (1,443.6)	China (5,847.3)
4.	India (1,765.7) (4.6)	China (1,267.0)	France (1,413.1)	France (4,678.3)
5.		Brazil (914.2)	W.Germany (1,170.5)	Poland (3,473.2)
6.		Poland (888.2)	Japan (722.0)	W.Germany (3,248.3)
7.		W.Germany (876.9)	E.Germany (715.9)	India (2,573.3) (3.1)
8.		Japan (692.0)	Czechoslovakia (675.0)	
9.		Australia (630.0)	China (556.3)	
10.		Canada (482.1)	Brazil (521.3)	
11.		Spain (474.9)	Hungary (423.2)	
12.		India (471.5) (2.0)	United Kingdom (371.0)	
13.			India (336.1) (1.7)	
World Total:				
	38,706.9	23,854.5	19,864.6	82,426.0

Note: 1 Figures in ( ) denote consumption in 000 tonnes.  
 2 Figures in % denote percentage share of world consumption

Source : Annual Review 1975-76 (FAO)

COUNTRYWISE ANNUAL GROWTH RATES OF FERTILIZERS  
(N + P<sub>2</sub>O<sub>5</sub> + K<sub>2</sub>O) (1970-71 to 1974-75)

(Percentage)

Country	1970-71	1971-72	1972-73	1973-74	1974-75
India	9.4	20.8	2.6	5.2	-9.4
Egypt	- 0.5	15.4	12.0	9.4	6.4
Philippines	11.4	- 8.5	- 2.5	22.2	8.3
Japan	- 5.0	- 10.0	7.1	-18.5	- 8.4
Korea, Republic of	5.4	11.5	- 2.5	16.9	5.5
The Netherlands	5.7	- 7.7	0.5	2.5	1.2
U.S.S.R.	17.0	20.9	9.9	9.6	3.2
U.S.A.	5.8	1.9	3.5	7.1	- 9.4
Canada	6.6	10.0	16.7	16.5	3.0
China, Mainland	19.6	15.4	11.8	17.5	0.2
Australia	11.5	0.7	25.5	28.4	-38.9
France	10.2	6.6	9.0	8.5	-19.8
West Germany	5.6	2.1	- 1.8	- 1.8	2.1
Italy	8.7	8.4	6.3	- 8.2	- 2.3
Developing countries		12.7	14.8	8.7	4.3
Developed countries		2.0	4.8	6.3	- 9.6
Centrally planned		8.7	8.1	10.4	8.6
World		5.5	7.2	8.2	- 2.9

Source: Annual Review 1975-76 (FAI)

COUNTRYWISE PRODUCTION OF ROCK PHOSPHATE  
DURING 1969 to 1973

('000' tonnes)

Continent/Country	1969	1970	1971	1972	1973
<u>Europe</u>	210.0	200.0	90.0	94	113
Belgium	20.0	20.0	30.0	-	-
France	31.0	31.0	30.0	49	20
Poland	156.4	144.4	-	-	-
<u>U.S. &amp; R</u>	16230.0	17920.0	19866.0	19730	21290
<u>North/Central America</u>	34370.0	35340.0	35396.0	37190	.....
Netherlands					
Antilles	113.0	143.0	61.0	89	69
U.S.A.	34223.0	35143.0	35277.0	37040	37450
<u>South America</u>	200.0	230.0	216.0	268	233
Brazil	147.0	176.0	180.0	236	198
Chile d	25.0	25.0	-	-	-
Peru	30.0	30.0	-	-	-
<u>Asia</u>	2740.0	2760.0	5697.0	6107	7135
India	780	165.0	243.0	217	136
Indonesia	10.0	10.0	-	-	-
Israel	1120.0	1000.0	900.0	800	750
Jordan	1087.3	891.0	528.0	694	1086
<u>Africa</u>	18110.0	19370.0	20935.0	23960	27303
Algeria	420.0	504.0	555.0	527	608
Morocco	10665.0	11399.0	12013.0	14468	16564
Senegal c,d	1201.0	1128.0	1543.0	1425	1752
Seychelles	8.0	-	-	-	-
South Africa	1246.0	1247.0	1225.0	1450	1300
Togo	1473.0	1508.0	1715.0	1928	2272
Tunisia	2660.0	3024.0	3162.0	3387	3473
Uganda	14.0	16.0	15.0	15	18
Egypt	660.0	584.0	574.0	572	5000
<u>Oceania</u>	3880.0	3710.0	2497.0	1862	3075
Australia	19.0	14.0	7.0	10	10
Christmas Islands d	1111.0	1072.0	934.0	1074	1493
Gilbert & Ellice Islands	555.1	506.0	566.0	610	731
Nauru	2193.0	2114.0	1867.0	1340	2323
<u>World Total:</u>	<u>77100.0</u>	<u>81200.0</u>	<u>84694.0</u>	<u>89231</u>	<u>96760</u>

a = Low grade 10-18% P<sub>2</sub>O<sub>5</sub>

b = Low grade 14% P<sub>2</sub>O<sub>5</sub>

c = Exports.

d = Phosphatic Gnan

e = 24-28% P<sub>2</sub>O<sub>5</sub>

f = Includes aluminium phosphate.

..... Not available

Statistical Supplement 1973  
the British Sulphur  
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COUNTRYWISE FERTILIZER PRICES PAID BY FARMERS  
 (1969-70 to 1973-74)

(in US Dollars per 100 Kg.)

COUNTRIES	AMM. SULPHATE					AMM. NITRATE				
	69-70	70-71	71-72	72-73	73-74	69-70	70-71	71-72	72-73	73-74
<u>Europe</u>										
1. Belgium	23.9	23.9	25.5	28.4	32.8	24.3	24.8	25.0	28.3	32.4
2. France	26.0	25.7	26.2	30.0	36.7	23.3	23.4	25.2	28.3	36.5
3. German FR	26.8	27.5	29.7	32.8	27.5	26.3	27.8	31.3	34.8	29.0
4. German (Con.)	28.8	29.4	32.2	35.6	29.7	28.7	29.3	33.4	37.1	30.8
5. Italy	27.0	27.0	28.2	29.7	26.4	23.7	23.7	24.7	25.3	22.4
6. Netherlands	26.3	27.2	29.4	28.0	37.6	23.5	23.9	28.6	30.2	33.4
7. Denmark	23.8	25.0	25.7	28.6	NA	22.8	22.9	24.5	27.2	NA
8. Poland	34.3	29.0	29.6	23.4	25.0	33.7	33.7	33.7	34.7	37.7
9. Sweden	24.1	19.0	19.4	20.7	24.6	23.8	23.3	24.7	26.1	31.7
10. Czechoslovakia	24.5	24.0	24.5	26.5	33.3	20.8	20.8	20.8	22.4	28.2
11. UK	27.6	22.2	32.4	33.7	36.6	-	-	-	-	-
<u>N&amp;C AMERICA</u>										
12. USA	27.5	27.1	27.3	29.0	52.4	19.7	20.3	21.3	23.5	41.5
13. Canada	17.9	21.2	21.4	26.3	25.7	20.8	23.1	22.5	23.5	25.5
14. Mexico	27.0	25.1	23.2	22.8	25.8	26.3	26.5	26.7	26.8	28.9
<u>S. America</u>										
15. Argentina	27.2	31.9	36.8	NA	NA	43.9	38.4	46.4	NA	NA
<u>Africa</u>										
16. Zambia	35.6	24.4	29.0	NA	NA	35.4	24.8	24.4	NA	NA
17. Egypt	29.9	29.9	29.7	32.5	NA	29.7	29.4	29.4	31.8	NA
<u>ASIA</u>										
18. Japan	25.0	24.4	26.9	30.8	36.1	-	-	-	-	-
19. Pakistan	25.6	40.0	40.0	17.3	25.8	26.5	35.1	35.1	17.8	25.3
<u>Oceania</u>										
20. Australia	23.3	22.5	NA	NA	NA	30.9	34.3	NA	NA	NA
21. Newzealand	23.5	20.4	13.2	20.5	37.5	-	-	-	-	50.6

Contd.../-

U.S.E.A.

SUBSTR FIBROPHANE ( BELOW 25% P. O<sub>2</sub> )

COUNTRY	69-70	70-71	71-72	72-73	73-74	69-70	70-71	71-72	72-73	73-74	
<u>Europe</u>											
1. Belgium	22.3	22.3	22.3	26.8	26.2	22.2	22.2	22.2	23.7	26.4	37.4
2. France	"	"	"	"	22.3	22.3	22.3	25.1	25.1	27.5	44.3
3. German FR	26.2	26.5	30.2	37.4	27.9	23.6	24.7	26.4	26.4	31.7	23.9
4. German (Gon.)	27.1	27.5	31.4	34.7	28.9	25.1	27.4	31.4	31.4	35.0	32.5
5. Italy	"	24.2	25.2	"	"	18.2	18.0	19.0	19.0	19.3	17.5
6. Netherlands	27.0	25.8	"	"	"	25.7	23.7	27.6	27.6	27.2	39.2
7. Denmark	17.9	16.5	17.1	19.4	NA	19.3	19.4	21.0	21.0	23.3	NA
8. Poland	31.7	31.7	31.7	33.0	35.7	22.0	20.3	20.8	20.8	21.5	23.2
9. Sweden	18.7	17.8	17.4	18.1	22.5	20.8	20.8	17.7	"	"	"
10. Czechoslovakia	22.0	22.0	22.0	23.8	30.0	17.7	17.7	17.7	17.7	19.2	24.1
11. UK	"	"	"	"	"	19.5	16.5	25.0	25.0	"	"
<u>N&amp;C America</u>											
12. USA	19.9	19.6	19.5	21.1	39.1	25.0	26.3	27.5	27.5	29.6	45.7
13. Canada	19.6	20.8	20.3	21.9	21.5	25.6	23.1	27.4	27.4	27.9	25.6
14. Mexico	23.6	20.7	17.8	18.6	20.9	17.0	16.4	16.0	16.0	15.8	25.2
<u>S. America</u>											
15. Argentina	26.8	30.8	35.7	NA	NA	"	"	"	"	"	NA
<u>Africa</u>											
16. Zambia	25.5	17.1	21.0	NA	NA	33.2	21.7	25.3	25.3	NA	NA
17. Egypt	30.4	30.4	30.4	35.3	NA	17.9	19.1	22.1	22.1	25.3	NA
<u>Asia</u>											
18. Japan	21.9	21.1	23.1	25.6	29.6	24.4	25.4	31.3	31.3	36.3	51.9
19. Pakistan	25.8	28.8	28.8	15.4	23.8	21.8	22.2	22.2	22.2	11.2	16.6
<u>Oceania</u>											
Australia	18.9	18.9	NA	NA	NA	17.6	7.2	NA	NA	NA	NA
New Zealand	"	"	14.8	18.1	31.6	13.0	10.4	5.3	5.3	5.9	13.6





Country	Murrate of Potash (45% & over)					Calcium Nitrate				
	69-70	70-71	71-72	72-73	73-74	69-70	70-71	71-72	72-73	73-74
<u>Europe</u>										
1. Belgium	8.0	8.0	8.5	9.9	11.4	30.3	30.3	32.4	35.8	40.9
2. France	8.7	8.5	9.5	11.2	14.2	32.7	33.5	36.3	40.8	52.0
3. German (Gen.)	9.0	9.3	10.5	12.1	10.3	36.7	33.0	43.8	42.6	40.0
4. German FR	8.3	8.6	9.6	11.1	9.5	33.8	34.9	40.3	44.8	36.9
5. Italy	10.4	11.4	11.5	12.1	12.1	32.9	33.9	35.4	36.6	32.8
6. Netherlands	9.0	9.1	10.3	10.9	14.4	29.6	30.5	35.9	38.1	48.0
7. Denmark	7.8	8.0	8.7	9.9	NA	26.0	26.1	27.9	30.5	NA
8. Poland	9.2	9.2	9.2	9.5	10.3	51.1	51.1	51.1	51.9	--
9. Sweden	10.3	10.1	10.6	11.6	13.4	28.1	27.6	28.9	31.0	38.4
10. Czechoslovakia	5.9	5.9	5.9	6.3	8.0	30.6	30.6	30.6	33.0	41.6
11. UK	7.5	6.7	11.3	11.1	14.7	--	--	--	--	--
<u>NAO America</u>										
12. USA	9.4	10.7	10.8	11.3	13.6	--	--	--	--	--
13. Canada	10.8	12.3	12.5	12.2	13.1	--	--	--	--	--
14. Mexico	8.6	8.9	9.0	8.8	10.3	--	--	--	--	--
<u>S. America</u>										
15. Argentina	15.3	20.6	23.5	NA	NA	--	--	--	--	--
<u>Africa</u>										
16. Zambia	14.4	9.5	12.2	NA	NA	--	--	--	--	NA
17. Egypt	10.4	10.4	9.7	10.8	NA	35.4	35.2	35.2	38.8	NA
<u>Asia</u>										
18. Japan	9.7	11.1	13.8	15.2	18.0	--	--	--	--	--
19. Pakistan	--	12.2	12.2	5.5	5.9	--	--	--	--	--
<u>Oceania</u>										
20. Australia	11.6	12.9	NA	NA	NA	--	--	--	--	--
21. Newzealand	9.5	9.5	7.3	7.9	12.6	--	--	--	--	--

NA - Not available

Production Year Book 1974 (P/O)

(Food and agriculture organisation of the United Nation - Rome)

147  
COUNTRYWISE INDEX NUMBERS OF FERTILIZER PRICES PAID BY FARMERS

1967-1973

100

	1967	1968	1969	1970	1971	1972	1973
<u>AFRICA</u>							
South Africa	99.3	98.8	98.5	99.2	103.0	111.1	120.5
<u>N &amp; C AMERICA</u>							
Canada	101.2	104.3	98.0	95.5	98.7	102.1	114.5
USA	100.7	97.4	93.4	97.4	102.0	103.9	115.8
<u>ASIA</u>							
Israel	103.8	103.6	103.5	106.4	115.1	137.1	219.0
Japan	100.2	89.3	99.8	103.3	107.6	112.3	127.0
Korea Republic	90.3	90.3	96.8	100.0	100.0	100.8	112.8
<u>EUROPE</u>							
Austria	101.8	111.3	110.9	111.9	119.5	129.5	152.4
Belgium	99.5	96.6	95.5	95.0	95.2	101.4	104.1
Czechoslovakia	100.0	101.6	99.7	99.7	100.2	99.8	100.2
Denmark	100.0	100.0	106.9	104.9	113.7	115.7	117.6
Finland	103.8	115.2	137.3	138.1	137.4	141.0	...
France	97.6	97.7	100.7	99.6	106.2	110.6	113.7
Germany FR	94.5	89.9	87.1	89.9	95.2	97.6	106.9
GREECE	100.0	100.0	100.0	100.0	100.0	100.0	...
Hungary	100.0	103.8	99.1	99.1	99.3	99.7	99.8
Ireland	102.3	111.9	113.5	114.5	123.7	136.8	149.4
Italy	100.0	100.0	99.0	98.2	93.3	97.7	94.7
Netherlands	99.0	99.0	97.1	96.2	101.0	107.7	112.5
Norway	100.0	101.0	98.0	94.1	100.0	105.3	111.3
Poland	92.1	92.0	88.8	90.0	86.9	84.9	83.1
Spain	98.8	100.9	102.5	105.2	108.1	110.5	119.1
Sweden	101.3	102.3	100.0	96.5	97.0	98.4	...
Switzerland	100.6	99.6	99.3	98.9	98.6	102.5	105.8
UK	110.8	113.1	112.8	124.2	150.3	174.0	200.1
Yugoslavia	102.8	103.7	102.3	107.0	119.1	134.4	...
<u>OCEANIA</u>							
Australia	105.3	99.0	82.1	80.0	83.2	84.2	...

... Not available.

Source : Production Year Book 1974 (FAO)

# A P P E N D I C E S

-: II :-

## ABBREVIATIONS FOR FERTILISERS/FERTILISER RAW MATERIALS ETC.

APS	=	Ammonium phosphate sulphate
AS	=	Ammonium sulphate
ACL .	=	Ammonium chloride
ASN	=	Ammonium sulphate nitrate
CAN	=	Calcium ammonium nitrate
SSP	=	Single superphosphate
TSP	=	Triple superphosphate
PP	=	Pelophos
BS	=	Basic slag
MOP	=	Muriate of Potash
SOP	=	Sulphate of Potash
ASP	=	Ammonium sulphate phosphate
DAP	=	Diammonium phosphate
NP	=	Nitro phosphate
MAP	=	Mono ammonium phosphate
UAP	=	Urea ammonium phosphate
ANP	=	Ammonium nitrate phosphate
NP/NPK	=	NP/NPK complex fertilisers of various grades
COG	=	Coke oven gas
$H_3PO_4$	=	Phosphoric acid
$H_2SO_4$	=	Sulphuric acid
$NH_3$	=	Ammonia

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Sl. No.	Material	Total nitrogen	Ammoniacal nitrogen	Nitrate nitrogen	Amide nitrogen	Total phosphate (P <sub>2</sub> O <sub>5</sub> )	Available phosphate (P <sub>2</sub> O <sub>5</sub> )	Water soluble phosphate (P <sub>2</sub> O <sub>5</sub> )	Water soluble potash (K <sub>2</sub> O)
16.	Potassium schoenite	-	-	-	-	-	-	-	23.0
17.	Ammonium phosphate sulphate								
	16-20-0	16.0	16.0	-	-	20.0	-	19.5	-
	20-20-0	20.0	18.0	-	2.0	-	20.0	17.0	-
18.	Diammonium phosphate								
	18-46-0	18.0	18.0	-	-	46.0	-	41.0	-
19.	Nitrophosphate								
	20-20-0	20.0	-	-	-	20.0	20.0	5.4	-
	18-18-9	18.0	-	-	-	18.0	18.0	4.9	9.0
	15-15-15	15.0	-	-	-	15.0	15.0	4.0	15.0
20.	Urea ammonium phosphate								
	28-28-0	28.0	9.0	-	-	28.0	28.0	25.2	-
	20-20-0	20.0	6.4	-	-	20.0	20.0	18.0	-
21.	Monoammonium phosphate	11.0	11.0	-	-	-	52.0	44.2	-
22.	NPK fertilisers								
	10-26-26	10.0	10.0	-	-	26.0	26.0	22.1	26.0
	12-32-16	12.0	12.0	-	-	32.0	32.0	27.2	16.0
	14-36-12	14.0	14.0	-	-	30.0	35.0	30.6	12.0
	17-17-17	17.0	5.0	-	12.0	17.0	17.0	15.0	17.0
	14-28-14	14.0	8.0	-	6.0	28.0	28.0	25.2	14.0
	11-22-22	11.0	6.5	-	4.5	22.0	22.0	19.8	22.0
	22-22-11	22.0	7.0	-	15.0	22.0	22.0	19.6	11.0
	14-35-14	14.0	-	-	-	35.0	35.0	29.0	14.0

Source: FAI Fertilizer Handbook on Technology  
&  
FAI Fertilizer Statistics 1975-76

**CONVERSION RATIOS FOR FEEDSTOCKS, RAW MATERIALS, NITROGEN,  
PHOSPHATE, ACIDS AND FERTILISER MATERIALS**

---

**I. FEEDSTOCK/NITROGEN/NH<sub>3</sub>/UREA**

- (i) 1 te of N = 1.25 te of naphtha  
                   = 1.11 te of fuel oil  
                   = 4.40 te of coal
- 1 te of NH<sub>3</sub> = 1.02 te of naphtha  
                   = 0.91 te of fuel oil  
                   = 3.62 te of coal  
                   = 38,500 SCFT of natural gas
- (ii) 1 te of NH<sub>3</sub> = 0.823 te of N  
       1 te of N = 1.215 te of NH<sub>3</sub>
- (iii) 0.6 te of NH<sub>3</sub> = 1 te of urea  
       0.61 te of naphtha = 1 te of urea

(iv) <u>Tonnes of NH<sub>3</sub>/day</u>	<u>Tonnes of N/annum</u>	<u>Tonnes of urea/annum</u>
315	80,000	174,000
600	152,000	330,000
900	228,000	495,000
1,350	345,000	750,000

**II. RAW MATERIALS/P<sub>2</sub>O<sub>5</sub>/H<sub>3</sub>PO<sub>4</sub>/H<sub>2</sub>SO<sub>4</sub>**

- (i) Rock and sulphur per te of P<sub>2</sub>O<sub>5</sub> :-

<u>P<sub>2</sub>O<sub>5</sub></u>	<u>Rock, te</u>	<u>Sulphur, te</u>
1 te of P <sub>2</sub> O <sub>5</sub> (16% P <sub>2</sub> O <sub>5</sub> )	3.75 of 70/72 Gr.	0.83
1 te of P <sub>2</sub> O <sub>5</sub> (Others)	3.6 of 68 Gr.	0.95

- (ii) Rock and sulphur per te of material:

<u>Material</u>		<u>Sulphur</u>	<u>Rock</u>
Ammonium sulphate	(21,0,0)	0.	-
Urea ammonium phosphate	(28,28,0)	0.393	0.960
Diammonium phosphate	(48,46,0)	0.460	1.600
Ammonium phosphate sulphate	(16,20,0)	0.393	0.720
Ammonium nitrophosphate	(20,20,0)	0.100	0.700
Superphosphate	(0,16,0)	0.134	0.600
Triple superphosphate	(0,46,0)	0.330	1.550

- (iii) 1 te of P<sub>2</sub>O<sub>5</sub> = 1.38 te of H<sub>3</sub>PO<sub>4</sub>  
                   = 4.5-5.5 te of phospho gypsum  
                   =

- (iv) 1 te of H<sub>2</sub>SO<sub>4</sub> = 0.345 te of Brimstone  
                   = 1.15 te of Pyrites contg. 30% S

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\* 1.9 te of gypsum

- : IV : -

LIST OF ADDRESSES FOR NITROGENOUS FERTILIZERS INDUSTRY

	<u>POSTAL ADDRESS</u>	<u>TELEGRAM</u>	<u>TELETYPE</u>
1.	The Fertilizer Corporation of India Ltd., 55, Nehru Place, <u>New Delhi.</u>		
a	The Fertilizer Corporation of India Sindri Unit, B.T.3, Sindri P.O., Ltd. Distt. Dhanbad-828122. <u>BIHAR</u>	FERTILIZER SINDRI	
b.	The Fertilizer Corporation of India Naya Nangal, Distt.Rupar-140124, Ltd. <u>PUNJAB</u>	FERTILIZER NANGAL	
c.	The Fertilizer Corporation of India Trombay Unit, Ltd. Marvali Chembur, <u>BOMBAY -400074.</u>	FERTILIZER TROMBAY	
d.	The Fertilizer Corporation of India Gorakhpur Division, Ltd. <u>GORAKHPUR (U.P.)</u>	FERTILIZER GORAKHPUR	
e.	The Fertilizer Corporation of India Namrup Division, Ltd; P.O. Parbatpur, <u>A S S A M</u>	FERTILIZER PARBATPUR	
f.	The Fertilizer Corporation of India Durgapur, Ltd; <u>WEST BENGAL</u>	FERTILIZER DURGAPUR	
g.	The Fertilizer Corporation of India Berauni Ltd; <u>(BIHAR)</u>	FERTILIZER BARAUNI	
2(a)	The Fertilizer and Chemicals Travancore Ambalamedu, Ltd; Via-Cochin (Kerala)	FACT UDYOGMANDAL	FACT-ON 294
(b)	The Fertilizer and Chemicals Travancore Udyogmandal, P.O. Lawaye-683501, Ltd; <u>K E R A L A</u>	FACT AMBALAMEDU	FACT-ON 294
3.	Hyderabad Steel Ltd., (Fertilizer Plant), <u>Bourkela (Orissa).</u>	ISPATGAN FERTILIZER BOURKELA	





	<u>POSTAL ADDRESS</u>	<u>TELEGRAM</u>	<u>TELEX</u>
	Goromandal Fertilizers Ltd., Jeevan Deep, 10-Parliament Street, <u>NEW DELHI.</u>	CALIMPAR NEW DELHI	2423
10.	Shri Ram Chemicals Industries; Naaz Building, 1, Jandewalan, <u>NEW DELHI-55</u>	SHRIFERT NEW DELHI	031-416
11.	Indian Explosives Ltd; (Fertilizer Division), Panki Factory, P.B.No.267, <u>K A N P U R.</u>	INDEXPLO KANPUR	208
12.	Zuari Agro Chemicals Ltd., Jai Kishan Bhavan, Zuari Nayar - 403726, <u>G O A</u>	JAI KISHAN ZUARI NAGAR	019-224
	Zuari Agro Chemicals Ltd; 505, Surya Kiran, 19, Kasturba Gandhi Marg, <u>NEW DELHI-1</u>	ZUARI NEW DELHI	2052
13.	Southern Petro Chemicals Industries 10, Kautilya Marg, Chanakya Puri, <u>New Delhi-110021.</u>	SOUTHPETRO NEW DELHI	3325
14.	Mangalore Chemicals & Fertilizers Ltd., A-11/6, Vasant Vihar, New Delhi-110057.	MANCFERT NEW DELHI	2107
15.	<u>IRON PRODUCTS LINE</u>		
a.	Bhilai Steel Ltd; Durgapur Steel Plant, Durgapur(W. Bengal).	DPRS FTEL DURGAPUR	
b.	Hindustan Steel Ltd; Bhilai Steel Plant, Bhilai(W.P.)	BHISTEL BHILAI	

15. c. Hindustan Steel Ltd;  
Bourkala(Orissa) ISPAT FERTILIZER  
BOURKELA
- d. Bokaro Steel Ltd;  
Main Administrative Building,  
Bokaro Steel City-1  
Dhanbad (Bihar) BOK STEEL 060-201  
DHANBAD
- e. The Indian Iron & Steel Co., Ltd;  
Martin Burn House,  
12, Mission row,  
CALCUTTA-1 INESCO 7372  
CALCUTTA
- f. Tata Iron & Steel Co. Ltd;  
JAMSHEDPUR IRONCO 026-201  
JAMSHEDPUR
16. Indian Farmers Fertilizer Corp. Ltd.,  
Kandla-570001,  
Kutch, Gujarat

SUPER PHOSPHATE INDUSTRY

		<u>TELEGRAM</u>	<u>TELEX</u>
1.	M/s. The Bihar State Indust. Corp. P.O. Sindri Institute, <u>DISTT. DHANBAD.</u>	PHOSPHATE DHANBAD	
2.	M/s. The Fertilizers & Chemicals Travancore Ltd; P.O. Udyogmandal, <u>A L W A Y E</u>	FACT UDYOGMANDAL	264
3.	M/s. Hindustan Zinc Ltd; 6, New Fatehpura, <u>Udaipur (Rajasthan)</u>	HINDZINC UDAIPUR	
4.	M/s. Hyderabad Chemicals & Fert. Ltd; 100, Bashir Bagh, <u>HYDERABAD-29</u>	CHEMICAL HYDERABAD	
5.	M/s. Gammon India Ltd., "Gammon House", Veer Savarkar Marg, Prabhadevi, <u>Bombay-400025.</u>		
6.	M/s. Adarsh Chemicals & Fertilizers Ltd; Udhna <u>(DISTT. SURAT)</u>	ADARSHCHEM <u>UDHANA</u>	018-221
7.	M/s. Paushak Ltd; Alembic Road, <u>BARODA-3</u>	PAUSHAK	017/201
8.	M/s. <sup>Andhra</sup> Fertilizers (P) Ltd; Tatapalli <u>P.O. Guntur.</u>	DISTIMULO GUNTUR	
9.	M/s. Anil Starch Products Ltd; (Ferts. & Chem. Division) Nava Bunder Road, <u>Bhavnagar (Gujarat)</u>	ITANIL	
10.	M/s. The Andhra Sugars Ltd; (Chem. & Fert. Division) Venkatarayapuram, P.B.No. 2, <u>T A N U K U.</u>	SUGARS TANUKU	

- |     |  |                               |          |
|-----|--|-------------------------------|----------|
| 11. | M/s. Associated Industries (Assam) Ltd;<br>P.O. Chandrapur,<br><u>Distt. Namrup, (Assam)</u>   |                               | 3-280    |
| 12. | M/s. Bharat Fertilizers Ltd;<br>12, Nana Bhai Lane,<br><u>Fort. BOMBAY-1</u>   | GRAFERTS<br>BOMBAY            |          |
| 13. | Kothari (Madras) Ltd; , Fert. Divn.<br>Kothari Buildings,<br>20, Nungam Bakkam,<br>High Road, <u>MADRAS-34.</u>                                  | KOTHARI<br>MADRAS             | 325      |
| 14. | M/s. Coimbatore Pioneers, Fert. Ltd;<br>Muthugoundan pudur,<br>P.O. Sular Road, R.S.<br><u>Distt. Coimbatore</u>                                 | CHEMFERTS<br>COIMBATORE       | 042/2    |
| 15. | M/s. Chamundi Chemical & Fertilizers,<br>Munirabad, Raichur,<br><u>KARNATAKA.</u>  | CHAMUNDI<br>RAICHUR           |          |
| 16. | M/s. The D.C.M. Chemicals Works,<br>P.O. Box No. 6219,<br>Najafgarh Road,<br><u>NEW DELHI-15</u>   |                               |          |
| 17. | M/s. The Dharamsi Morarji Chem. Co. Ltd;<br>Prospect Chambers, 317/21<br>Dadabhoj Naoroji Road,<br><u>BOMBAY-1.</u>                              | DHARAMAJAYA<br>BOMBAY         | 011 2646 |
| 18. | M/s. The Dharamsi Morarji Chemicals Co.<br>D.M.C. House,<br>Civil Lines,<br>P.B. No. 11/75.<br>Rajiv Gandhi - 400001, -<br><u>MADHYA PRADESH</u> | Ltd;<br>DHARAMAJAYA<br>RAIPUR |          |
| 19. | E.I.D. Parry Ltd;<br>'Dara House, Post Box No. 12,<br>Factory at Ranipet,<br><u>Madras-600001.</u>   | PARRY<br>MADRAS               | 315      |
| 20. | The Jayshree Chemicals & Fertilizers<br>10, Camac Street,<br><u>CALCUTTA-17</u>  | JAYSUDER<br>CALCUTTA          | 3510     |

-: XI :-

21. M/s. E.K. Chemicals Ltd;  
S.K. Misri Road,  
Antop Hill, P.O.  
BOMBAY-37 EASTCHEM 011/2295  
BOMBAY
22. M/s. Krishna Industrial Corp. Ltd;  
Nedavole Kovvuru Taluk,  
WEST GODAVARI DISTT) A.P. KRISCO  
NIDADAVOLE
23. M/s. The Phosphate Co. Ltd.  
14, Netaji Subhash Road,  
CALCUTTA-1 SUPERALUM  
CALCUTTA
24. M/s. Premier Fertilizers Ltd;  
151, Mount Road, P.B.No. 2712,  
MADRAS-2 CROWELL  
MADRAS
25. M/s. Ralli Chemicals Ltd;  
Post Box No. 59  
KANPUR RALCHEM  
KANPUR 298
26. M/s. Shaw Wallance and Com. Ltd  
8/9, Thambu Chetty Street,  
Post Box No. 14,  
MADRAS-1
27. M/s. The Western Chemicals Indust.  
Senawala Cross Road, Goregaon EAST,  
BOMBAY-63 NE WESTCHEMIN  
BOMBAY
28. M/s. West India Chemicals Ltd;  
Post-Loni Kalbhor,  
Taluka Haveilli  
DISTT. POONA SULPHACD  
POONA
29. M/s. Maharashtra Agro Industries-  
Development Corporation Ltd;  
'Rajan House' 3rd Floor,  
Near Century Bazar-Prabha Devi,  
BOMBAY-600012 (DR)
30. M/s. Orissa Fertilizers and Chemicals Ltd;  
Main Road,  
BOURKELA 769004.  
(ORISSA)

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ABBREVIATIONS USED IN FERTILIZER INDUSTRY:

- FCI - Fertilizer Corporation of India Ltd; .  
FACT- Fertilizers and Chemicals Travancore Ltd.  
HSL - Hindustan Steel Ltd.  
NLC - Neyveli Lignite Corporation Ltd.  
MFL - Madras Fertilizers Ltd.  
NCJM New Central Jute Mills Co. Ltd.  
EID - EID- Parry Ltd.  
GSFC- Gujarat State Fertilizer Co. Ltd.  
CFL - Coromandal Fertilizers Ltd.  
SCI - Shri Ram Chemicals Industries.  
IEL - Indian Explosives Ltd.  
ZACL - Zuari Agro Chemicals Ltd.  
IFFCO- Indian Farmers Fertilizers Coop. Ltd.  
SPIC- Southern Petrochemical Industries Corporation Ltd.  
NFL - National Fertilizers Ltd.  
MCFL- Mangalore Chemicals & Fertilizers Ltd.  
PPCL- Pyrites Phosphates & Chemicals Ltd.  
TISCO- Tata Iron & Steel Co. Ltd.  
IISCO Indian Iron & Steel Co. Ltd.  
BSL - Bokaro Steel Ltd.  
HCL - Hindustan Copper Ltd.  
MCFC - Maharashtra Cooperative Fertilizers & Chemicals.  
KSIDC- Karnataka State Industrial Development Corp.  
DACC - Dharanasi-Moranjee Chemicals Co. Ltd.  
MAIDC- Maharashtra Agro Industries Development Corporation.  
HZL - Hindustan Zinc Ltd.

- 1 -  
INDIAN FERTILIZERS STATISTICS (1975-76)

CORRIGENDUM

<u>Page No.</u>	<u>Reference</u>	<u>For</u>	<u>Please Read</u>
30.	Heading second line	DURING 1906-07	DURING 1906-07 to 1935-34
53.	Total (FCI) after serial No. 6:		
	Col. 4	Illigible	279
	Col. 5	-do-	71.4
	Col. 6	-do-	286
	Col. 7	-do-	80.3
	Col.10	-do-	285
	Grand Total:		
	Col. 4	-do-	830
	Col. 5	-do-	62.9
	Col. 6	-do-	952
	Col. 8	-do-	1060
	Col. 9	-do-	73.7
	Col.10	-do-	1060
	Col.11	-do-	58.4
	Col.12	-do-	1185
	Col.13	-do-	59.5
	Col.14	-do-	1535
66.	EID (Errors) Total figures for 1975-76 under columns 9, 10 & 11 :		
	16/20/0	Illigible	<u>Q</u> <u>N</u> <u>P</u> 41 7 8
	18/9/0	-do-	13 2 1
	Total	-do-	54 9 9
74.	In the first row against Superphosphate figures for the years:		
	1973-74	Illigible	336 (24.7)
	1974-75	-do-	733 (23.6)
	1975-76	-do-	468 (20.0)
78.	Totals in the last but one row for 'Used in Mixtures' during the years:		
	1972-73	Illigible	67
	1973-74	-do-	11
79.	Total against 'Others' for 1975-76	Illigible	91
86.	Figures for Tamil Nadu for the year 1974-75, under the col. 'P' for Rabi (August-Jan.)	Illigible	82.24
	Figures for Punjab for the year 1974-75, col. 'P' for Rabi (August-January)	-do-	58.00

<u>Page No.</u>	<u>Reference</u>	<u>For</u>	<u>Please Read</u>
87.	Figures for U.P. for the year 1972-73, under the col. 'K' for Kharif (February-July)	Illigible	8.85
109.	Grand Total under col.3	Illigible	19310.15
122.	Figures for 1.4.76 in the last row under:		
	Col. 2	Illigible	42,279
	Col. 5	-do-	59,722
124.	Grand total for the year 1976 under col.7	Illigible	54,172
137.	Figures for German DR under:		
	Col.7	Illigible	32.1
	Col.9	-do-	130.7

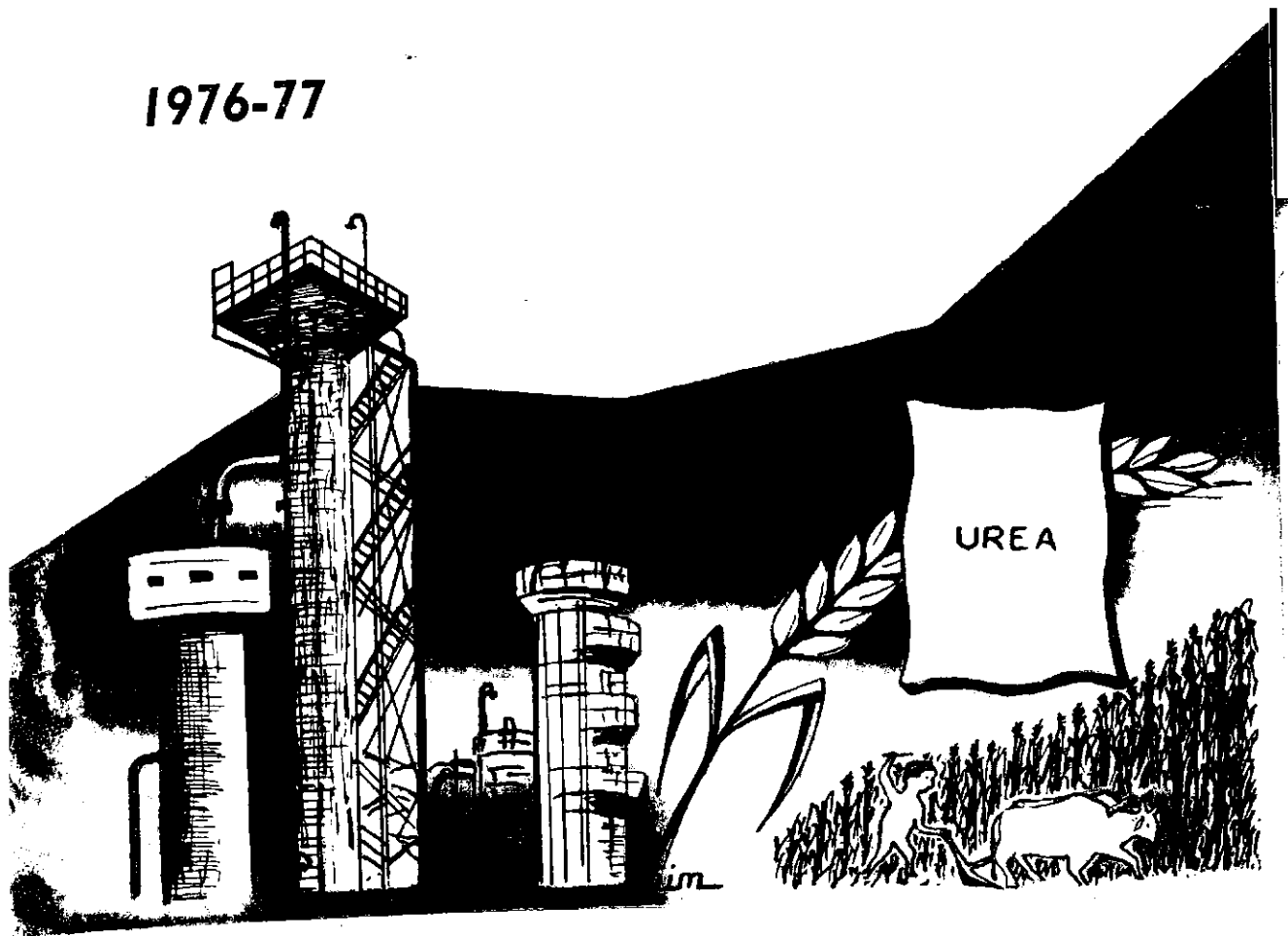




GOVERNMENT OF INDIA

# INDIAN FERTILIZERS STATISTICS

1976-77



MINISTRY OF CHEMICALS & FERTILIZERS NEW DELHI

<u>Page No.</u>	<u>Reference</u>	<u>For</u>	<u>Please Refer</u>
87.	Figures for U.P. for the year 1972-73, under the col. 'K' for Kharif (February-July)	Illigible	£.85
109.	Grand Total under col.3	Illigible	19310.15
122.	Figures for 1976-77		

### FERTILIZERS STATISTICS

124.

#### (1) INSTALLED CAPACITY ('000' Tonnes)

137.

Items	1960-61	1965-66	1973-74	1974-75	1975-76	% Variation	
						1976-77	1975-76
Nitrogen (N <sub>2</sub> )	242	548	1939	1981	2509	2988	+19.1
Pub. Sector	228	526	1132	1132	1402	1718	+22.5
Pvt. Sector	14	22	807	849	1107	1270	+14.7
Phosphate (P <sub>2</sub> O <sub>5</sub> )	95	228	500	500	692	801	+15.8
Pub. Sector	27	73	183	183	323	350	+ 8.4
Pvt. Sector	68	155	317	317	369	451	+22.2

#### (2) PRODUCTION ( '000' Tonnes)

Nitrogen (N <sub>2</sub> )	98	233	1060	1185	1535	1900	+23.8
Pub. Sector	89	218	533	547	834	1015	+21.7
Pvt. Sector	9	15	527	638	701	885	+26.2
Phosphate (P <sub>2</sub> O <sub>5</sub> )	52	111	323	327	320	480	+50.0
Pub. Sector	9	21	115	122	157	230	+46.5
Pvt. Sector	43	90	208	205	163	250	+53.4

#### (3) IMPORTS ('000' Tonnes)

Nitrogen (N <sub>2</sub> )	399	326	659	884	996	750	-24.7
Phosphate (P <sub>2</sub> O <sub>5</sub> )	—	14	213	280	361	23	-93.6
Potash (K <sub>2</sub> O)	20	73	370	437	278	278	—
Total (N+P+K)	419	413	1242	1601	1635	1051	-35.7

#### (4) CONSUMPTION ('000' Tonnes) £

Nitrogen (N <sub>2</sub> )	212	575	1829	1774	2149	2457	+14.3
Phosphate (P <sub>2</sub> O <sub>5</sub> )	53	132	650	477	467	635	+36.0
Potash (K <sub>2</sub> O)	29	77	360	328	278	309	+11.2
Total (N+P+K)	294	784	2839	2579	2894	3401	+17.5

#### (5) PRICES (Rs./Kg.) \$

Nitrogen (N <sub>2</sub> )	1.65	1.48	2.28	4.35	3.80	3.59	— 5.5
@ Phosphate (P <sub>2</sub> O <sub>5</sub> )	1.14	1.43	3.32	5.81	5.20	4.60	-12.6
Potash (K <sub>2</sub> O)	0.53	0.50	1.13	2.05	1.52	1.34	-11.8

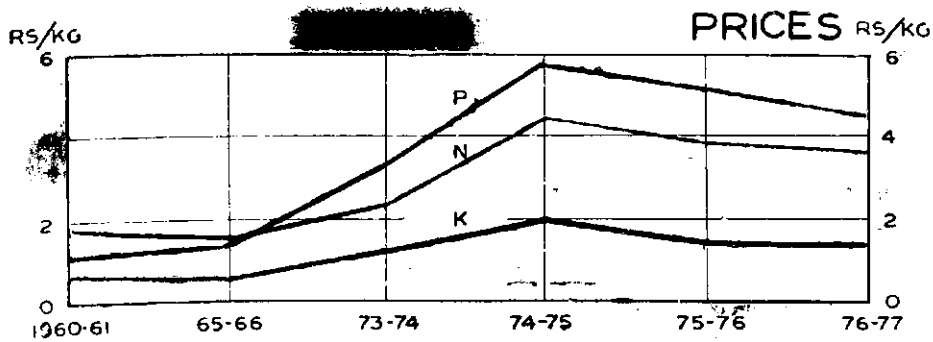
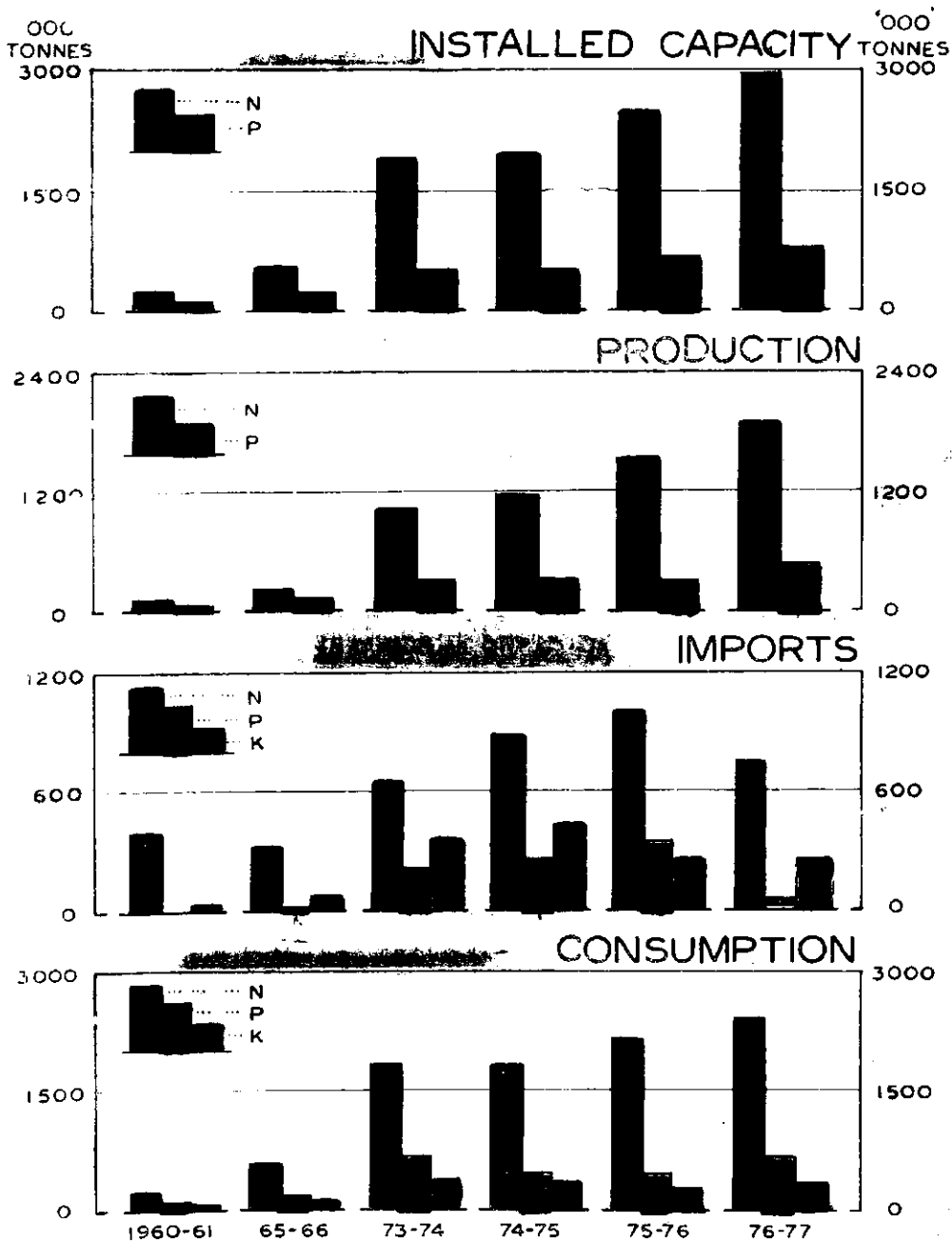
£ Consumption on Agr. year basis

— = Nil

@ Weighted average prices (including SSP)

\$ Prices as on 31st March each year

# FERTILIZERS CHART



<u>Page No.</u>	<u>Reference</u>	<u>For</u>	<u>Please Read</u>
37.	Figures for U.P. for the 1972-73, under the ... for Kharif (February-July)	Illegible	8.85
109.	Grand Total under col.3	Illegible	19310.15
122.	<del>...</del>		

124.

137.