



WELCOMES HONOURABLE DISTINGUISHED JURY MEMBERS AND DELEGATES





Date: 13th-15th Sept, 2023

P K Mahapatra, JGM (Tech.)



OVERVIEW OF IFFCO



Production Capacity

Urea : 42.42 Lakh MTPA NPK/DAP: 43.35 Lakh MTPA Nano Fertiliser: 17 Cr. bottles PA

IFFCO Kandla



IFFCO Kalol



Every 3rd bag of DAP/NP & Every 5th bag of Urea produced in India comes from IFFCO



~35,000 member Cooperatives

IFFCO Aonla



IFFCO Phulpur



IFFCO Paradeep





ABOUT IFFCO PARADEEP





Year of Commissioning

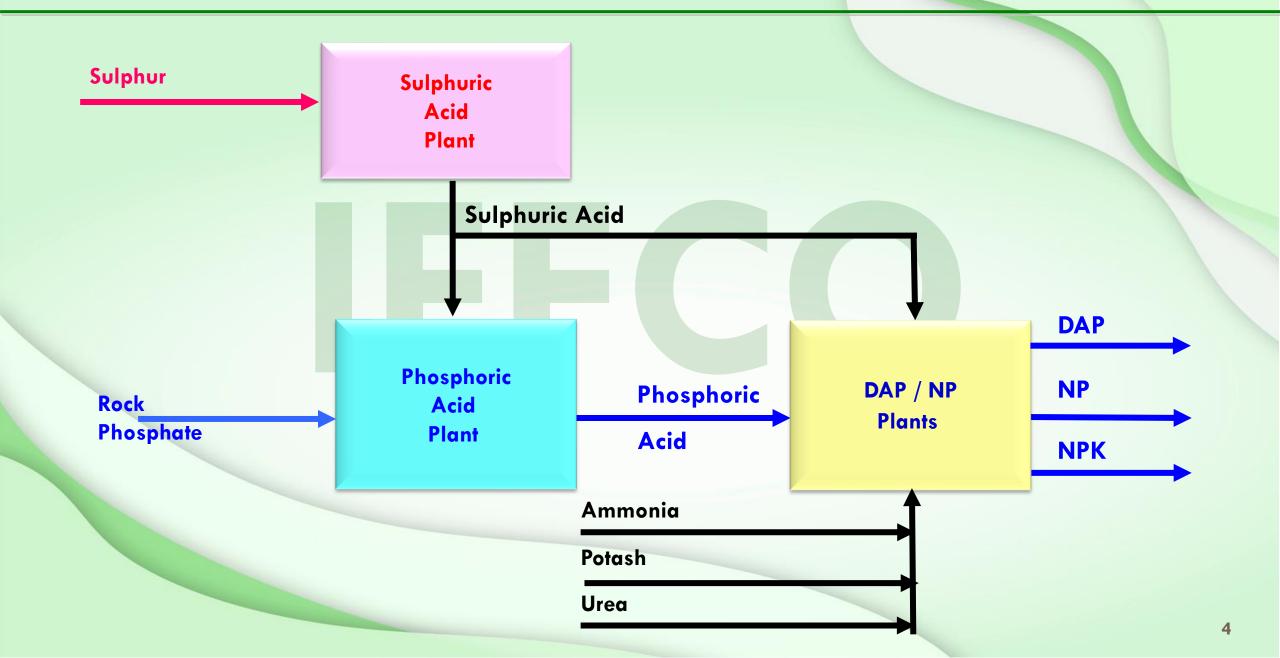
2000

Product	Capacity MTPD	Technology		
Sulphuric Acid	uric Acid 2 x 3500 Lurgi GMBH, Germ			
Phosphoric Acid	1 x 2650	Jacobs Engg. USA		
DAP/NP/NPK	3 x 2090	Jacobs Engg., USA		
Captive Power Plant	2 x 55 MWH	LMZ Energy, Russia		
Annual Production	1.92 Million tonnes			
Grades of Fertiliser	DAP (18:46:00), NP (20:20:00:13), NPK-I (10:26:26), NPK-II (12:32:16)			



PROCESS DIAGRAM

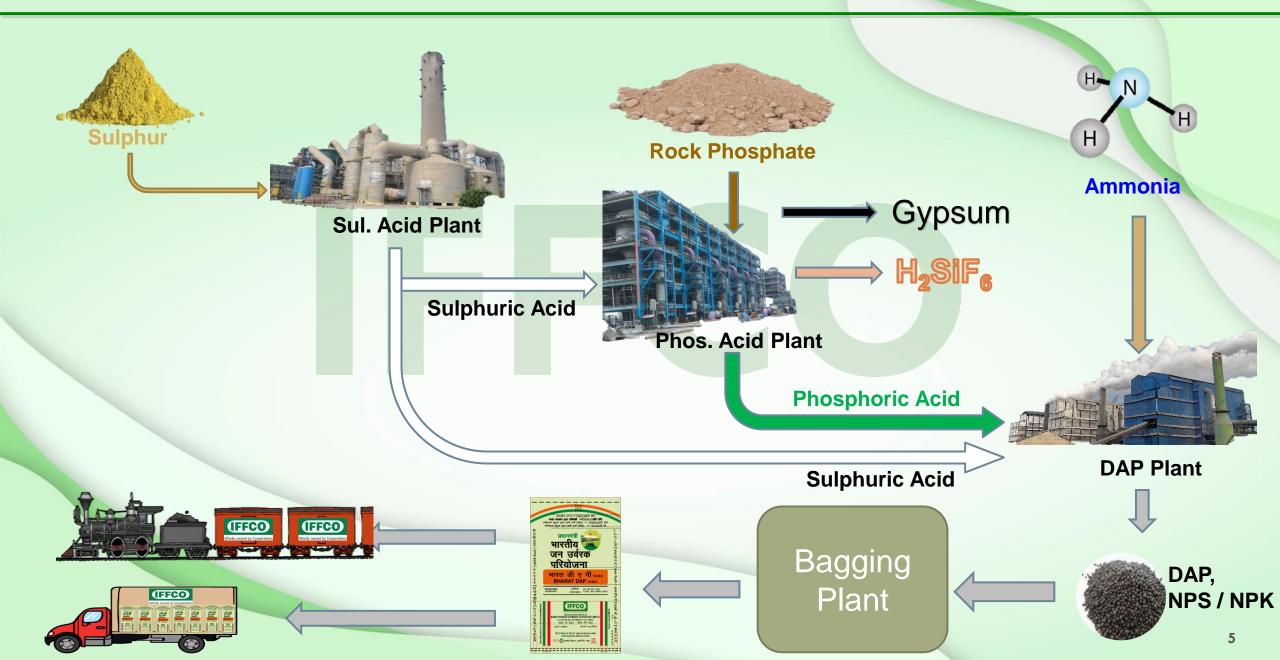






MATERIAL FLOW OVERVIEW







RAW MATERIALS IMPORT IN FY 2022-23



s	.N.	Raw Materials	Unit	Quantity
	1	Rock Phosphate	MT	30,51,684
	2	Solid Sulphur	MT	4,47,549
	3	Ammonia	MT	4,86,469
	4	Sulphuric Acid	MT	8,92,088
	5	Urea	MT	42,713





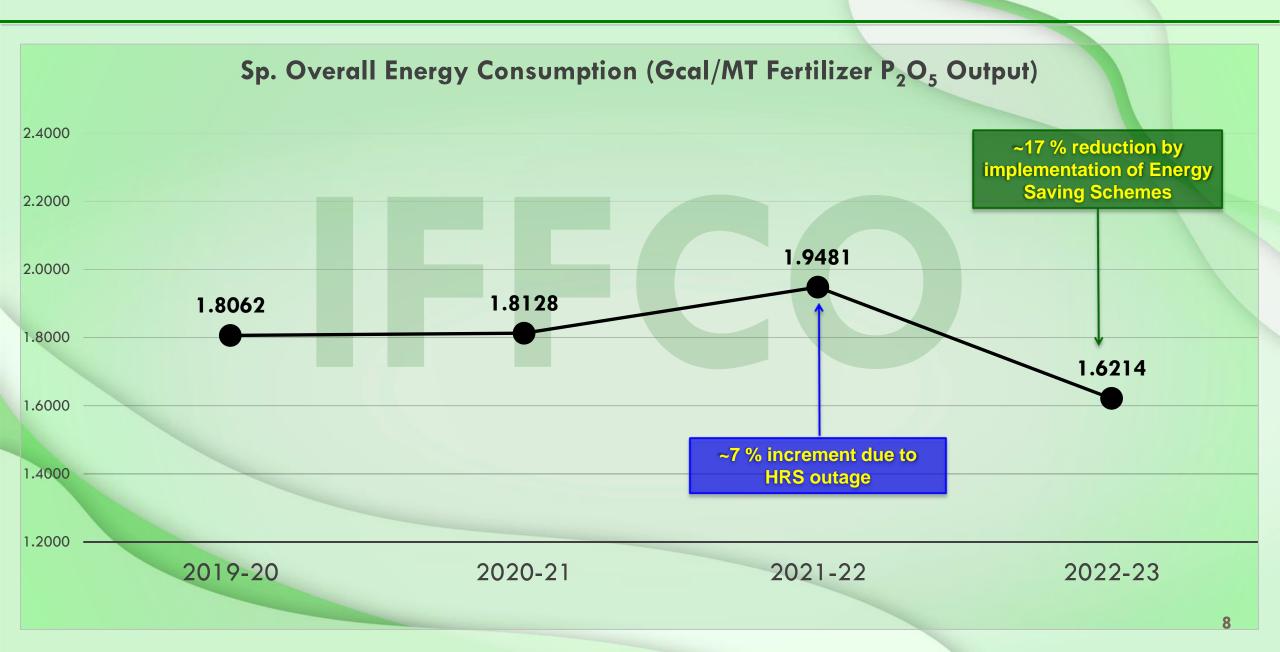
Parameters	Unit	2020-21	2021-22	2022-23
Bulk Fertilizer Production	MT	19,88,300	19,94,900	21,88,250
P ₂ O ₅ output in Fertilizer	MT	7,35,816	7,79,880	8,36,425
Electrical Energy Consumption	Million kcal	3,10,853	3,28,638	3,16,188
Thermal Energy Consumption	Million kcal	10,23,040	11,90,655	10,39,992
Overall Energy Consumption	Million kcal	13,33,893	15,19,293	13,56,180

The overall sp. energy consumption for the year 2022-23 is reduced by approx. 11% compared to previous year 2021-22.



SPECIFIC OVERALL ENERGY CONSUMPTION

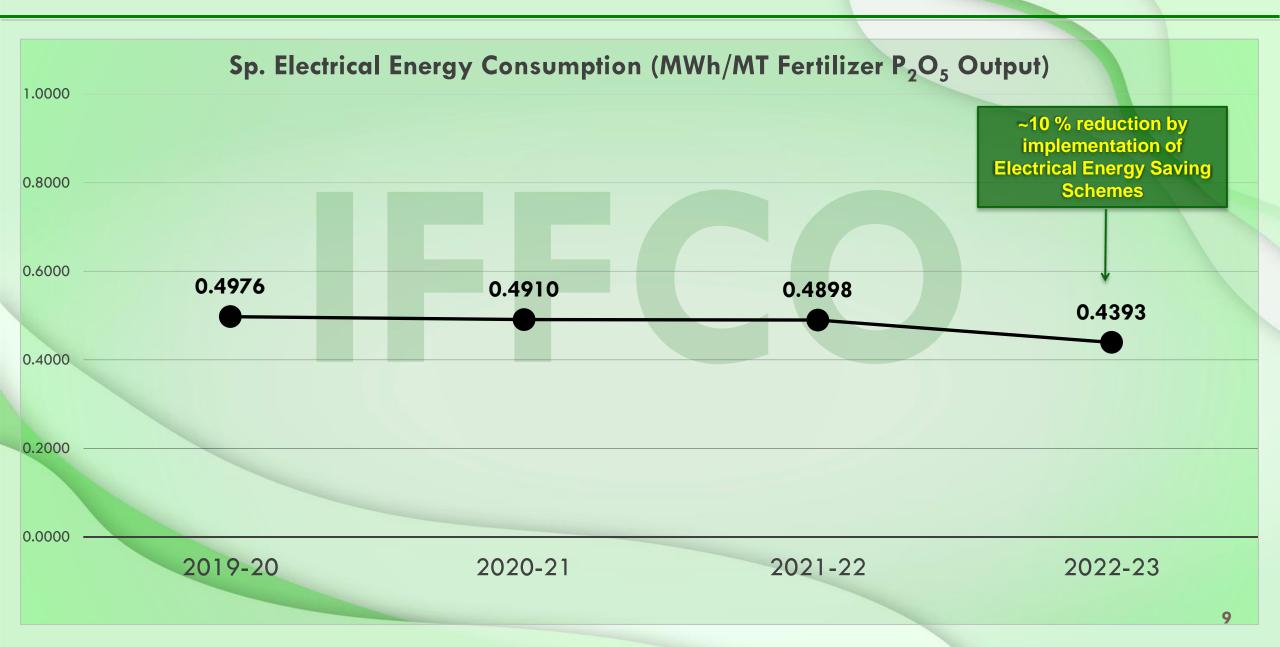






SPECIFIC ELECT. ENERGY CONSUMPTION

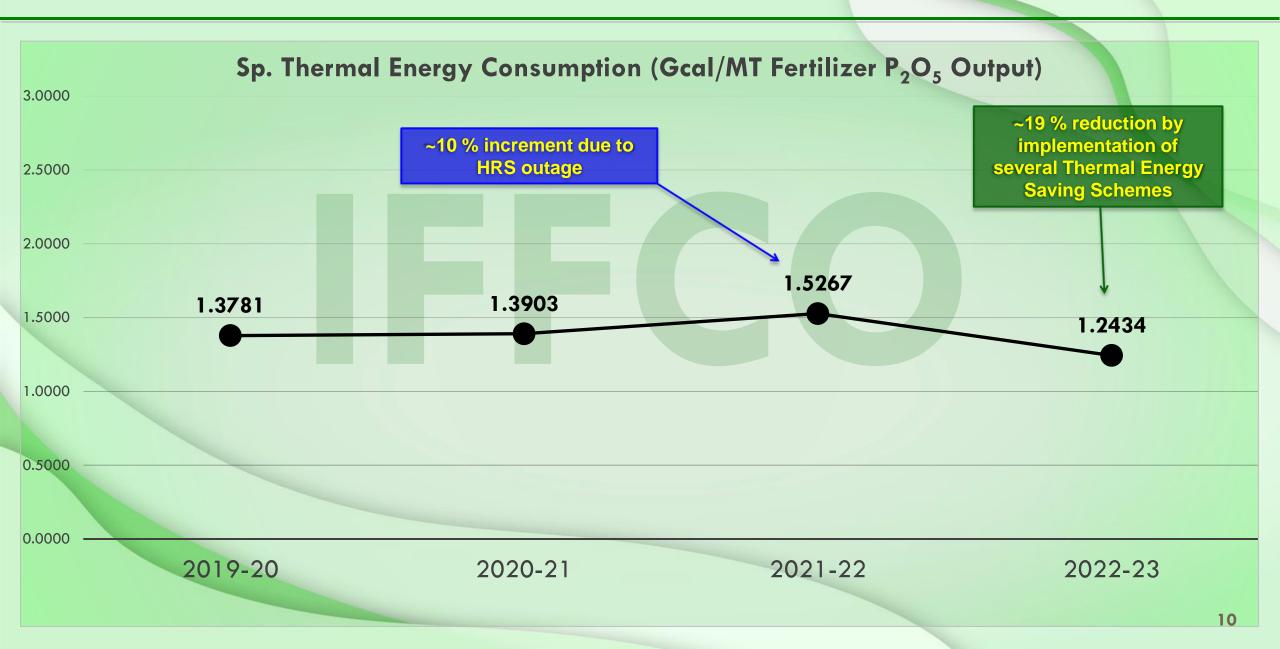






SPECIFIC THERMAL ENERGY CONSUMPTION







ENERGY CONSERVATION SCHEMES IN LAST 3 YEARS



Year	Name of Energy saving projects	Investment s (INR Million)	Electrical savings (Million kWh)	Thermal savings (Million Kcal)	Savings (INR Million)	Payback Period (In months)
2020-21	Installation of higher head pump in Evaporator 'A' in Phosphoric Acid Plant	17.50	0	17,397	24.39	8.50
2021-22	Installation of high efficient motors (IE3) in place of low efficient motors (IE2)		0.11	0	0.91	133.36



ENERGY CONSERVATION SCHEMES IN LAST 3 YEARS



I							
	Year	Name of Energy saving projects	Investments (INR Million)	Electrical savings (Million kWh)	Thermal savings (Million Kcal)	Savings (INR Million)	Payback Period (In months)
		Replacement of old chiller unit with new & VFD control unit	4.31	0.15	0	1.08	47.90
		Replacement of old steam ejectors and optimization of steam consumption in Flash cooling vacuum cooling system in Phosphoric Acid Plant	8.00	0	76,109	200.64	0.48
	2022-23	Installation of high efficient motors (IE3) in place of low efficient motors (IE2)	6.73	0.07	0	0.49	166.17
		Installation of higher head pump in Evaporator 'E' & 'G' in Phosphoric Acid Plant	35	0	16,055	42.32	9.92
		2022-23	54.04	0.22	92,164	244.53	2.65



INSTALLATION OF HIGHER HEAD PUMP IN EVAPORATOR



BEFORE MODIFICATION:

- There are eight evaporators available for concentrating weak acid (25% P_2O_5) to strong phosphoric acid (49-50%).
- There is circulator pump of capacity 7,315 m³/hr circulates acid through heat exchanger, where it gains heat from low pressure steam.
- It was estimated that acid circulation through the tubes was lower than design due to increased resistance in the system because of solid deposition inside the tubes, tubes plugging, less vacuum in the evaporator than design.
- ➤ Production rate was very low around 10.5 Tons of P₂O₅/hr against design 17.0 tons/hr.



INSTALLATION OF HIGHER HEAD PUMP IN EVAPORATOR



MODIFICATION & BENEFITS:

- ➤ New pump with higher head & reduced speed installed in evaporator.
- ➤ Production improved by 10 -12 % due to increased circulation through evaporators.
- ➤ Sp. Steam consumption reduced by ~5% due to improved heat transfer.
- The savings in steam resulted in huge thermal energy savings with increased production.
- ➤ Increase in strong phosphoric acid production, results higher DAP production.



New pump



REPLACEMENT OF OLD STEAM EJECTORS & OPTIMIZATION OF STEAM CONSUMPTION



- ➤ Vacuum coolers are available to cool the reactor slurry. Vacuum in vacuum coolers is maintained by steam ejector system.
- ➤ Earlier about 6 TPH steam is consumed in each ejector (4 nos.) against a design consumption of 5.71 TPH.
- ➤ Now, old ejectors were replaced with new efficient ejectors, which consumes about 3 TPH steam in each ejector. There is saving of 12 TPH in all ejectors.

Parameters	Unit	Quantity
MP steam Sp. Consumption (FY 2022-23)	MTPH	0.11
MP steam Sp. Consumption (FY 2021-22)	MTPH	0.25
P2O5 Production	MTPY	8,40,500
Steam savings	MTPY	1,11,509
Equivalent HP steam saving	MTPY	94,499



RENEWABLE ENERGY



- 1. Installed floating type 100 kW solar photovoltaic panels on Raw water reservoir.
- 2. Installed 3 x 10 kW = 30 kW Photovoltaic Solar pack to generate power for Administrative building.
- 3. Installed 100 kW Photovoltaic Solar pack on Community Centre to generate power & is connected to Grid.
- 4. Installed 3 Nos. Solar water heaters for hot water generation.
- 5. Installed solar LED Flashers for traffic lights.

Details of energy saved by substitution of Conventional Energy with Renewable Energy:

Sr. No.	Particulars	Unit	2020-21	2021-22	2022-23
1.	Energy Generated	kWh/year	1,00,764	1,08,028	1,18,234
2.	Annual Savings	Rs. lakh	6.43	7.23	12.24



RENEWABLE ENERGY





Solar Panels on Administrative Building



Solar LED Flasher lights



Solar Panels on Community Centre



Floating Solar Panel on Reserve pond



Utilization of Waste heat from process replacing conventional energy



- ✓ Waste Heat of Sulphur Combustion & Conversion reactions is recovered in form of High Pressure superheated steam (62 kg/cm² g, 480 °C) & used for power generation.
- ✓ Part of Waste Heat of SO₃ absorption is recovered in HRS section, in form of LP saturated steam (4.5 kg/cm² g) and used for process heating.
- ✓ In spite of non-availability of LP steam from HRS in SAP, the waste heat as % of total energy in year 2022-23 has increased compared to year 20-21.

Year	Type of waste heat	Quantity of steam (MT/Year)	GCV (kcal/kg)	Waste heat as % of total energy
2020-21	WHRB & HRS	21,63,439	805.4	69.87 %
2021-22	WHRB	22,02,768	805.4	65.17 %
2022-23	WHRB	20,70,653	805.4	70.26 %



GREEN HOUSE GAS EMISSIONS



- ❖ CO₂ emission reduction is one of the Objectives in ISO 50001:2018 Energy management System
- ❖ Target for year 2025 is of 2% reduction in CO₂ emission over 2021-22.
- ❖ Year by year CO₂ emission:

Year	Total kg CO ₂ / Ton of fertilizer
2019-20	137.6
2020-21	146.9
2021-22	169.1
2022-23	133.3

❖ With the implementation of projects like Steam Air Heater & Extraction Turbine, there will be further reduction in CO2 emission by about 63.01 kg per MT of fertilizer.



GHG EMISSION INTENSITIES OF FERTILIZERS WHOLLY OWNED BY COOPERATIONS.



Stages	Urea (MT CO₂e/MT)	DAP (MT CO ₂ e/MT)	NPK (MT CO₂e/MT)	NP(S) (MT CO ₂ e/MT)	Nano Urea* (MT CO ₂ e/ 11.1 L)	Nano DAP* (MT CO ₂ e/ 10 L)
Raw material extraction and pre-processing	0.15	1.62	0.49	1.43	0.00	0.00
Upstream transportation	0.05	0.24	0.33	0.19	0.00	0.00
Manufacturing process	0.52	0.09	0.05	0.04	0.00	0.00
Packaging	0.01	0.01	0.01	0.01	0.00	0.00
Downstream transportation	0.00	0.03	0.03	0.03	0.00	0.00
Field application	3.10	0.93	0.33	0.36	-	-
Total	3.83	2.91	1.24	2.06	0.00	0.00

Product Carbon footprint of all the products

- To replace 1 MT of Urea (~22.2 bags of 45 kg Urea), around 11.1 L of Nano Urea is required. So, in order to make the comparative analysis, Nano Urea emission intensity is presented in the unit of MT CO₂e/ 11.1 L of Nano Urea in the table.
- To replace 1 MT of DAP (~20 bags of 50 kg DAP), around 10 L of Nano DAP is required. So, in order to make the comparative analysis, Nano Urea DAP intensity is presented in the unit of MT CO₂e/ 10 L of Nano DAP in the table.



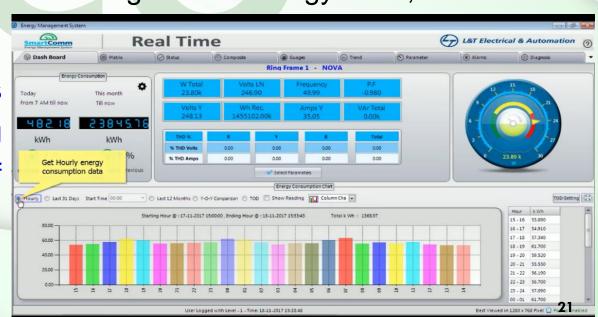
ENERGY MONITORING



- There is a separate Budget under the head "Energy Saving Projects" dedicated for energy conservation projects.
- Energy Conservation Cell comprising of plant heads, maintenance section heads, energy manager and headed by HOD (Technical)
- Energy conservation cell overlooks energy performance monitoring, planning & implementation of energy saving measures.
- ❖ IFFCO has already installed energy meters in ALL the significant energy uses, which was an

objective as per ISO 50001.

Energy Monitoring software (Smart Comm) has been installed in DAP Plant to help in analyzing energy consumption patterns & optimization of energy consumption.





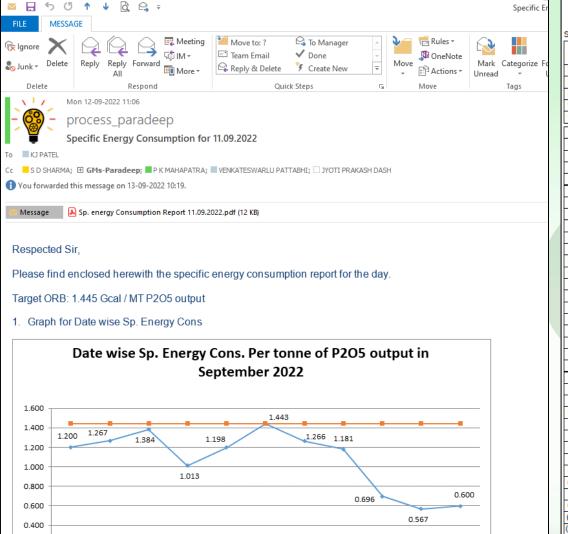
0.200 0.000

2. Graph for Month wise Sp. Energy Cons.

DAILY ENERGY REPORT



Run Date: 12/09/2022 10:21:19



THE TOTAL THE TOTAL THE TOTAL PROPERTY PROPERTY THE TOTAL PROPERTY TOTAL TOTAL

IFFCO - PARADEEP UNIT
CALCULATION OF SPECIFIC CONSUMPTION OF ENERGY For the Period 11/09/22 To 11/09/22

Some of the reference values

	For the	Period	Upto the	e Period		
Fuel	Density Kg/Litre	KCal/Kg or KWH	Density Kg/Litre	KCal/Kg or KW	Н	
POWER		2860		2860		
HSD	.845	11840	.845	11840		
FO	.986	10050	.986	10050		
COAL (Ind)		3650		3650		
COAL (Imp)		5000		5000		
Part	Particulars for Calculations of Specific Consumption of Energy				For the Period	Upto the Period
(A) Production	(A) Production of DAP				4850	648850
(B) Production	on of NP (20:20:00:1	3)			2250	304350

Particulars for Calculations of Specific Consumption of Energy	For the Period	Upto the Period
(A) Production of DAP	4850	648850
(B) Production of NP (20:20:00:13)	2250	304350
(C) Production of NPK-1 (10:26:26)	0	(
(D) Production of NPK-2 (12:32:16)	0	(
(E) Production of NP (28:28:00)	0	(
(N) Nitrogen output in the product	1323	177663
(P) P2O5 output in the product	2681	35934
(K) K2O output in the product	0	(
(O) Total nutrient in the product	4004	537004
(Q) Grid Power purchased	0	36901.55
(R1) Coal (Ind) consumed	240	30926.05
(R2) Coal (Imp) consumed	60	55735.95
(R) Total Coal consumed	300	86662
(S) HSD consumed	0	157
(T) F.O consumed (in KL)	0	
(T1) F.O consumed (in MT)	43	4150.48
(I) Specific consumption of Coal per tonne of steam generated from AFBC Boiler	.248963	.20114
(II) Specific consumption of Steam per MWH of steam generated from TG	3.538835	3.61636
(III) Specific consumption of Coal per MWH of Power generated	.881039	.72741
(IV) Export P2O5	0	
(V) Specific Consumption of Captive Power in PAP	.228238	.17472
(VI) Captive power consumption for Export P2O5	0	
(VII) Coal consumed for power for Export P2O5	0	
(VIII) Specific consumption of LP Steam in PAP	1.316667	1.77678
(IX) Consumption of LP Steam for Export P2O5	0	
(X) Equivalent HP Steam consumption	0	
(XI) Specific consumption of MP Steam in PAP	.109524	.12590
(XII) Consumption of MP Steam for Export P2O5	0	
(XIII) Equivalent HP Steam consumption	0	
(XIV) Total HP Steam consumption	0	(
(XV) Coal consumed for HP Steam consumption	0	
(XVI) Specific consumption of Grid Power in PAP	0	.05644
(XVII) Grid power consumption for Export P2O5	0	(
(XVIII) Total Export Power	0	
(XIX) Coal consumed for Export power	0	
(XX) Total quantity of Coal deductable	0	
Different values for Specific Consumption of Energy	For the Period	Upto the Period
Total energy consumed in the complex Gcal, E	1608.15	540381.4134
Specific consumption of energy per tonne of complex fertiliser, E / (A+B+C+D+E)	.2265	.56691
Specific consumption of energy per tonne of P205 output in fertiliser, E / (P)	.599832	1.50381
Specific consumption of energy per tonne of total nutrient output in fertiliser, E / (0)	.401636	1.00628
Total energy consumed in the complex (without deduction) Gcal, E'	1608.15	540381.4134
Specific consumption of energy per tonne of P205 output in fertiliser, E '/(P)	.599832	1.50381



GREEN RESIDENTIAL TOWNSHIP



- ❖ IFFCO Paradeep Township is a Green Residential Society (Platinum) certified by Indian Green Building Council (IGBC).
- Under this certification many initiatives for energy & water conservations were
 - undertaken apart from other requirements.
- The Energy conservation initiatives were:
 - 5 star rated appliances in common facilities
 - Efficient lightning fixtures for street lights with astronomical timers.
 - Use of renewable energy.
 - Energy metering for common areas.





CERTIFIED for ISO 14001:2015, 45001:2018 & 50001:2018, IFA Protect & Sustain Stewardship





INDIAN FARMERS FERTILISER COOPERATIVE LIMITED



VILLAGE: MUSADIA, P.O.: PARADEEP, DIST: JAGATSINGHPUR - 754 142, ODISHA, INDIA

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above Organisation has been audited and found to be in accordance with the requirements of the Management System Standards detailed below.

ISO 14001:2015 & ISO 45001:2018

Scope of certification

MANUFACTURE OF PHOSPHATIC FERTILISERS LIKE DAP (DI-AMMONIUM PHOSPHATE), NP (AMMONIUM PHOSPHATE SULPHATE) & NPK (NITROGEN PHOSPHATE & POTASH) COMPLEX FERTILISER AND BYPRODUCTS LIKE PHOSPHOGYPSUM & HYDRO FLUROSILISIC ACID INCLUDING THE INTERMEDIATES LIKE SULPHURIC ACID & PHOSPHORIC ACID AND CAPTIVE POWER GENERATION OF 2x55 MW

Original cycle start date for ISO 14001: 15 July 2011 Original cycle start date for ISO 45001: 15 July 2020 Recertification cycle start date:

Subject to the continued satisfactory operation of the Organisation's Management System this certificate is valid until: 14 July 2026

Issue date: 13 July 2023

UKAS

Signed on behalf of BVCH SAS IIK Brance Jagdheesh N. MANIAN Director - CERTIFICATION, South Asia

Commodities, Industry & Facilities Division Certification body address: 5th Floor, 66 Prescot Street, London, E1 8HG, United Kingdom

Andhert (East), Mumbal - 400 093, India.

Further clarifications regarding the scope of this certificate and the applicability of the management system is

EMS ISO 14001:2015 & OH&S ISO 45001:2018



ertificatio

S

ta

 σ



IFFCO TOWNSHIP, MUSADIA, PARADEEP, JAGATSINGHPUR, ODISHA - 754 142. ODISHA, INDIA

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the Management System standard

ISO 50001:2018

Scope of certification

INCLUDING INTERMEDIATES LIKE SULPHURIC ACID, PHOSPHORIC ACID AND CAPTIVE POWER GENERATION

Original cycle start date: Expiry date of previous cycle: Certification Audit date: 31 August 2020 Certification cycle start date:

Subject to the continued satisfactory operation of the organization's Management System. this certificate expires on: 04 October 2023

adheesh N MANIAN Head - CERTIFICATION, South Asia

Certification body Sth Floor, 65 Prescot Street, London, E1 8HG, United Kingdom

72 Business Park, Marol Industrial Area, MIDC Cross Road "C" Andhed (Fast) Mumbal - 400 003 India

ISO EnMS 50001:2018





MANUFACTURE OF PHOSPHATIC FERTILISERS (DAP. NP. NPK)

05 October 2020

IND.20.9081/EN/U Version: 1 Revision date: 05 October 2020







IFA Protect & Sustain Stewardship





IFFCO Sadan, C-1, Distt. Centre, Saket Place, New Delhi - 110017,

meets the minimum requirements as defined under the

IFA Protect & Sustain Product Stewardship Programme

To achieve the level of IFA Product Steward Excellence

Production of Neem Coated Urea Fertilizers/ Production of DAP, NP, NPK, Water Soluble

Detailed information is available on request at the offices of SGS United Kinodom Ltd

This certificate is valid from 01 July 2022 until 01 July 2025 Issue 1. Certified since 01 July 2022

> This is a multi-site certification. Additional site details are listed on the subsequent page



SGS United Kingdom Ltd. Certification and Business Enhancement











ISO 50001 ENERGY OBJECTIVES & TARGETS



Wholly owned by Cooperatives PARADEEP UNIT	INDIAN FARMERS FERTILISER COOPERATIVE LTD. PARADEEP					
	Energy Management System	Dept./ Function	MR			
Document	Energy Objectives and Targets	Issue No & date	02 / 22.10.2019			
Doc. No.	EnMS-P-03-F-03	Rev No & date	00 / 22.10.2019			

Unit Level Energy Objectives & Targets

Performance Cycle:

April 2022 - March 2025

Sr. No.	Objective	Unit	Base line*	Target	Completion date	Remarks
1	1% improvement in energy performance over baseline in next 3 year	Gcal/MT Fertilizer	0.467	0.462	March 2025	
2	3% improvement in energy efficiency of lighting over baseline in next 3 years	Lumens/ watt	84.62	87.15	March 2025	
3	3% increase in waste heat recovery over baseline in next 3 years	%	68.49	70.55	March 2025	
4	2% reduction in emission of greenhouse gases by conservation of fossil fuels over base line in next 3 years	Ton CO ₂ /MT Fertilizer	0.151	0.148	March 2025	

^{*} Base line is the average value for the years 2019-20, 2020-21 & 2021-22

Prepared By:

Approved By:

Signature

Designation

Date

04.04.2022

04.04.2022



ISO 50001 ENERGY MANAGEMENT SYSTEM



□ The Unit is certified for ISO 50001:2018 Energy Management System (EnMS) since

2014.



Ū

S

Verita

B

ure

INDIAN FARMERS FERTILISER COOPERATIVE LTD.



IFFCO TOWNSHIP, MUSADIA, PARADEEP, JAGATSINGHPUR, ODISHA - 754 142.

Bureau Veritas Certification Holding SAS - UK Branch certifies that the Management System of the above organization has been audited and found to be in accordance with the requirements of the Management System standard

Standard

ISO 50001:2018

Scope of certification

MANUFACTURE OF PHOSPHATIC FERTILISERS (DAP, NP, NPK) INCLUDING INTERMEDIATES LIKE SULPHURIC ACID, PHOSPHORIC ACID AND CAPTIVE POWER GENERATION

Original cycle start date: Expiry date of previous cycle: 31 August 2020

Subject to the continued satisfactory operation of the organization's Management System

Version: 1 Revision date: 05 October 2020



Certification body 5th Floor, 66 Prescot Street, London, E1 8HG, United Kingdom

ISO EnMS 50001:2018



ମ୍ୟାନ ଅନ୍ୟାନ ଅନ୍ୟାନ

Indian Farmers Fertiliser Cooperative Ltd., Paradeep Unit **ENERGY POLICY**

IFFCO PARADEEP unit, having the world's largest phosphoric acid plant and manufacturing phosphatic fertilizers strives to reduce its energy consumption and Improve Energy performance

We are committed to:

- Maintain high standards of energy performance:
- . Ensuring availability of information and all necessary resources to achieve objectives and energy targets:
- . Complying with energy management related legal obligations and other requirements related to energy efficiency, use and consumption;
- Achieve Continual Improvement in Energy performance in our operations and the EnMS:
- Adopting proven, energy efficient and eco-friendly technologies and promoting renewable energy usage; and
- . Gainful recovery of waste heat and low level of energy.

We shall achieve this by:

- Setting Objectives & Energy targets and review them periodically
- . Monitor, control, report and carrying out all significant activities to endeavor higher performance;
- Conducting regular energy audit;
- . Ensuring Purchase of energy efficient products, services, and design for energy performance improvement;
- . Modification in existing process and machine to optimize energy
- . Creating awareness for energy conservation among employees and their

This policy will be reviewed periodically during management reviews.

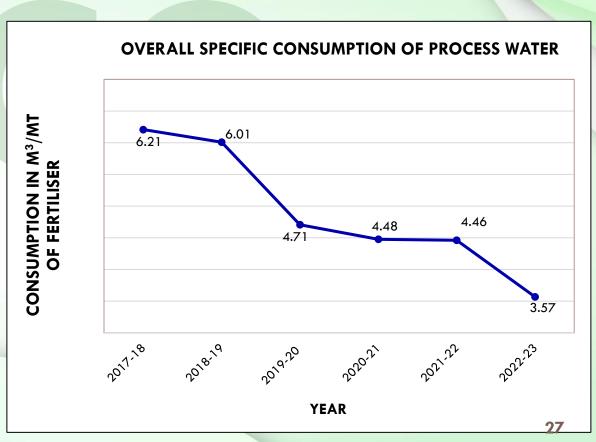
DATE: 1st October, 2019



WATER CONSERVATION



- Water conservation is a direct form of energy conservation.
- With implementation of several water conservation measures and continuous ongoing efforts the water consumption per MT of fertilizer has reduced and has a reducing trend further.
- For 2022-23 the specific consumption of water reduced to 3.57 m³/ MT of fertiliser equivalent to about 5.2 MGD.
- Water demand has been reduced from 10 MGD to 7 MGD.





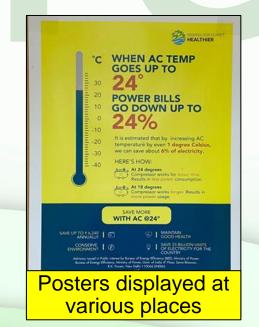
CII AWARENESS REGARDING ENERGY CONSERVATION (FFCO)





ladies









INVOLVEMENT OF EMPLOYEES & EXTENT OF TEAM WORK IN ENCON.



- Plant refresher course is conducted for all engineers, operators and technicians twice in a year.
- ❖ Periodic Energy Audits, Continuous Monitoring, Review of Targets & Bench Marks for Energy Consumption done by Top Management.
- Identification of Potential Areas & Equipments For Energy Conservation.
- Looking For Latest Technologies, its Implementation & Up gradation.
- Employees are consistently motivated to give innovative ideas through online suggestion scheme in various fields like energy saving, safety, environment, quality, etc.



Energy saving & Renewable Energy projects

for next three years



- ❖ Installation of SAP-3 plant with waste heat boiler which will generate about 100 TPH steam and reduce coal consumption. (770 crores.)
- Condensing type Steam Turbo Generator replacement with extraction cum condensing type STG. Commissioned in August 2023.(Rs. 100 Crores)
- Steam Air Heater in DAP Train A & B to replace existing FO based combustion chamber with waste steam based heater. (Rs. 60 Cr.)
- Replacement of old conventional motors with energy efficient motor.



Energy saving & Renewable Energy projects for next three years

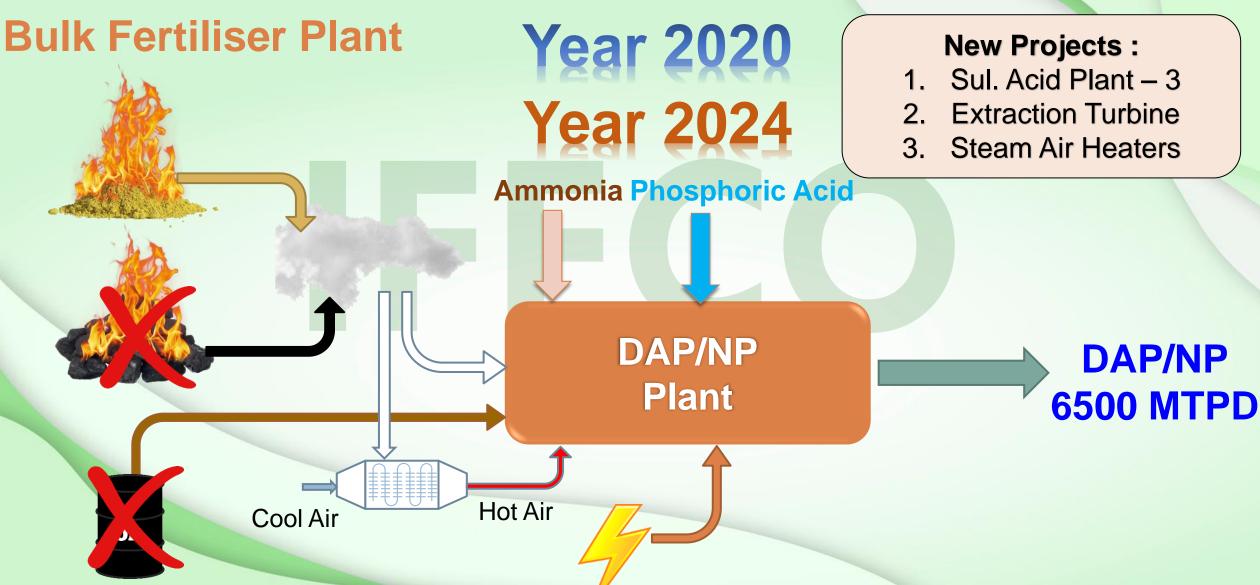


- ❖ To conduct compressor air audit, water audit & energy audit during financial year 2023-24
- ❖ Replacement of existing metal halide fittings (2 X 400 Watt) of high mast towers by 350 Watt LED fittings.
- Dry ice blasting for cleaning the boiler tubes to increase the heat transfer efficiency of waste heat recovery boiler.
- Installation of coal dedusting system to reduce coal losses.



ENERGY SCENARIO







EMISSIONS TREND





Year 2020

Year 2024

Energy Sources







Carbon Sink created





3.6 Lakhs 9,000 MT/yr.



5.2 Lakhs 13,000 MT/yr.



6.8 Lakhs 17,000 MT/yr.

A tree absorbs approximately 25 kg of CO2 per year.

Net Emissions

Positive



Net Zero

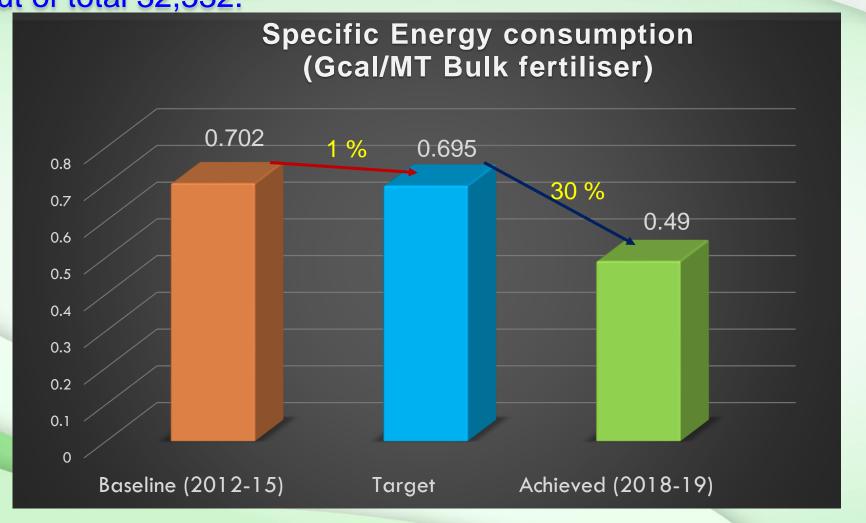
33



PAT SCHEME



❖ IFFCO Paradeep unit has been received 32,532 ESCerts from BEE and emerged as Top Performer in fertilizer sector during PAT cycle II. Till date 18.08.23, 7,606 ESCerts were sold out of total 32,532.





AWARDS & ACCOLADES



▶ Bureau of Energy Efficiency, Ministry of Power, Govt. of India, has felicitated IFFCO Paradeep unit as a top performer for its outstanding achievement in Energy performance during PAT Cycle II. The certificate of appreciation was received from Sh. R K Singh, Hon'ble Minister of Power, Government of India during celebration of BEE Foundation Day and Decade of PAT Scheme at Scope Auditorium, CGO Complex, New Delhi on 1st Mar, 2023, in presence of senior government officials from key line Ministries/Departments of Government of India and State Government and various Industries.









AWARDS & ACCOLADES





FAI Environment Protection Award 2022



Kalinga Safety Excellence Award (Platinum) - 2021



FAI Best Production Performance Award 2022





Kalinga Environment **Excellence Award 2022**



CII Excellent Energy Efficient Unit 2021



Productivity Excellence Award-2022



