

Department of Fertilisers

Statement of Outlays and Outcomes/ Targets: Annual Plan 2005-06

(Rs. in crores)

S. No.	Name of Scheme/ Programme	Objective/Outcome	Outlay 2005-06		Quantifiable Deliverables	Processes/ Time-lines	Remarks/Risk Factors
			BS	IEBR			
1. National Fertiliser Limited (NFL)							
1.	Improvement in Effluent Treatment	Environmental Protection		0.23	To meet the requirement of Pollution Control Standards	2005-2006	Requirement of all applicable pollution control standards are fully met by company.
2.	Renewals & replacement including Science & Technology	To maintain the health of the plant		12.75	For maintaining the 100% level of production .	2005-2006	This is an ongoing scheme in which equipments identified for replacement are replaced to maintain the health of the plant
3.	Upgradation of Instruments & Electrical System at Nangal/ Panipat and Bathinda	Minimize trippings and improved productivity.		17.05	Reduction in avoidable trippings of the plant.	2005-2006	Change over of instrumentation from pneumatic to DCS improves the response time, helps in reduction in tripping and in online maintenance etc.This is a continuous exercise to ensure full capacity utilization.
4.	Information Technology	To improve the speed and the quality of information and data communication		1.00	Availability of timely and relevant information for decision making	2005-2006	Local area networking (LAN) and wide area networking (WAN) in all the units and offices is under implementation
5.	Upgradation of Network 90	Improvement in instrumentation control in captive power plants at Bhatinda & Panipat		1.50	Improvement in the performance of captive power plants	Scheme implemented in 2004-2005	An expenditure of Rs.1.50 crores is kept in 2005-2006 which represents the balance payment to be incurred on the scheme already implemented in 2004-2005
6. Energy Saving Schemes							
	Installation of preconcentrator in Vijaiapur	Saving in steam consumption with improvement in prill quality		7.44	Saving of 0.1 Gcal/MT Urea and improvement in prill quality	2005-2006	The scheme shall be implemented during the year and benefits shall be achieved from the next financial year.
	Replacement of Reformer Tubes in Vijaiapur	Improvement in efficiency of reformer.		13.2	Improved efficiency in the reformer and increase in the throughput.	2005-2006	The scheme shall be implemented during the year and benefits shall be achieved from the next financial year.
	PC Stripper at High Pressure	Optimum utilization of steam		0.27	A saving of 0.05 Gcal./MT Urea achieved.	2005-2006	Scheme has been implemented and saving in energy achieved

Department of Fertilisers

7.	Major Retrofits (Revamp of F.O. based plant)	Change over of feed stock to RLNG		1.50	The scheme is aimed at substituting the higher cost fuel (FO) by cost effective fuel (RLNG) resulting in reduction in subsidy outgo of the Govt.	2005-2006	The amount is kept for conducting the feasibility study by the process licensors of changeover of feed stock at Panipat. After receipt of Study Report and firming up of availability of RLNG by supplier at Panipat and its pricing, future action shall be taken.
TOTAL				55.00			
2. Madras Fertilizers Limited (MFL)							
Ammonia Plant							
1	Reinsulation of Ammonia Tank	Old insulation require reinsulation which reduces evaporation losses	0.9		By reinsulating, the retriuration compressor is expected to be loaded 100% only for a maximum of 12 hrs as against 24 hrs. This will have power of 2400 KW per day savings. It amounts to Rs. 3.6 lacs per month.	March, 2006	Nil
2	Replacement of Stripper Reboiler (E1402) Shell	To replace the existing corroded shell with improved material of construction to improve the reliability	0.8		Since this being a replacement item, no benefits can be quantified as such. Improved material of construction will have a longevity and corrosion resistance.	During Tumaround of Ammonia Plant 2006-07	Nil
3	Repair/Refurbishment of HAN Tank	To maintain the available storage facility	0.43		This is under refurbishment and repair category	March, 2006	Nil
4	Spare LP rotor for Process Air Compressor	To maintain spare rotor for the emergency to reduce plant downtime	1.9		Major shutdown can be averted	March, 2006	Nil
5	Reflux Cooler E151 A/B	To replace the existing defective exchanger by new one to improve efficiency	0.8		This will improve the energy efficiency	December, 2005	Nil

Department of Fertilisers

6	Replacement of Urea Evaporator E221 A/B	To replace the existing evaporator due to ageing	2.9		Maintaining the steam consumption to the design level and save Rs. 60 lac per annum	During Turnaround of Ammonia Plant 2006-07	Nil
7	Spares for Reactor Internals	To replace the corroded reactor internal with the new one to improve efficiency	1.9		Hence it is a replacement item, no benefits can be quantified	April, 2006	Nil
Utility Plant							
8	Replacement of RO Membrane for III Stream	Replacement the existing defective one by new one to improve efficiency	0.2		Savings in raw-water usage @Rs.1.44 lacs per day	June, 2005	Already replaced
9	Upgradation of DCS in RO plant	To upgrade the existing DCS In RO	0.15		Enhancement in operational function of DCS in RO	May, 2005	Nil
10	Refurbishment of Cooling Tower Cells	To repair the corroded structure of the cooling tower cells	0.17		Increasing the life of the existing cooling tower cells	Dec. 2005	Establish safe operation
NPK Plant							
12	Fumes Scrubber for NPK 'B' Train Traom	To improve the existing system to achieve the higher rated capacity	0.9		Increasing in production rate results in saving of Rs. 380 lacs per annum	March, 2006	Benefit will be established at higher loads
13	Product mixing system in NPK AB, B&S	To improve the product formulations of NPK	0.9		Around 80% capacity Utilization, thereby a saving of Rs. 1.05 Cr. Per annum	March, 2006	Nil
14	Improvement of fumes scrubber for NPK A&C trains	To improve the existing system to achieve the higher rated capacity	0.85		Increasing in production rate	March, 2006	Benefit will be established at higher loads
15	Unloading system for 5000 MT capacity filler storage.	To utilize the storage facility to maximum	0.5		To have the fullest utilization of the storage facility	March, 2006	Nil
16	Repairs to the 6000 MT capacity phosphoric acid storage tank & 1500MT capacity us tank	To repair the existing tanks and make available for upcoming production front	0.8		To increase the lfe of the available storage facility.	Dec. 2005	Nil

Department of Fertilisers

17	Improvement of manual bagging machines in NPK AB & C B&S plants	To maximize the bagging capacity with accurate weighment	0.5		Improving weight accuracy at the rate of 100 gms per bag which results in Rs. 1.76 cr per annum	Dec, 2005	Nil
18	Renovation of electrical cable supports and dressing cables in NPK Plant	To establish the safe plant operation	0.4		To increase the life of the existing electrical facility and for safe operation.	March, 2006	Establish safe operation
19	Renovation and corrosion protection of structures of Ammonia, Urea and NPK Plants	Strengthening the supporting structures of the plant and pipe lines	0.77		This gives overall enhancement of plant life and its safe operations	March, 2006	Nil
20	Networking	On line communication with the regional offices	0.22		To have an effective communication between MFL plant at menali to its regional offices	Dec. 2006	Faster delivery of products and assessment
		Total	16.28				

3. FCI Aravali Gypsum & Mineral India Ltd

	Construction of Office Building	To have own Office Building	0.20		To have the building	-	This is the initial expenditure for constructing our own Office Building.
--	---------------------------------	-----------------------------	------	--	----------------------	---	---

4. BRAHMAPUTRA VALLEY FERTILIZER CORPORATION LIMITED, NAMRUP

	Namrup Revamp Project	Sustained production from Namrup Plants	84.77 (37.49 plan Outlay)		<u>Production Level:-</u> <u>Namrup – I</u> Amm.39,600 MT <u>Namrup – II</u> Amm.- 1,44,000 Urea – 2,40,000 <u>Namrup-III</u> Amm. – 1,67,400 Urea – 3,15,000 <u>Energy Level</u> <u>Namrup –I</u>	Scheduled Commissioning 01.02.2002. Actual Achieved: N-I:25.3.2002 N-III-25.3.2002 N-II – Anticipated 31.8.2005	i) Revamp Project activities of Namrup-I has been kept in abeyance due to high cost of production. High Power Committee formed for taking a final view ii) As a result of the above the projected urea production capacities of Namrup II & III will stand revised as under: Namrup-II : 2,27,000 MT Namrup-III: 2,70,000 MT
--	-----------------------	---	------------------------------	--	--	--	---

Department of Fertilisers

					<p>Ammonia 15.96 Mkcal/MT</p> <p><u>Namrup – II</u> Urea 12.70MKCal/MT</p> <p><u>Namrup-III</u> Urea 9.56 MkCal/MT</p>	<p>iii) The Plants will be economically un-viable under the New Pricing Scheme. Viability proposals have been submitted to Department of Fertilizers for consideration.</p> <p>iv) Consistent supply of required quantity & Quality of gas by M/s OIL.</p> <p>v) Since the scope of revamp includes limited areas of the plants, the production and energy levels indicated in the Detail Project Report as given under Column-5 may not be achievable.</p> <p>vi) Non-receipt of fund from GOI for implementing/completion of Project.</p>
--	--	--	--	--	--	---

5. PROJECTS & DEVELOPMENT INDIA LIMITED							
1.	<u>Continuing Scheme</u> Computer Hardwares, Softwares, Printers, etc.	Essential to carry out day to day work and timely completion of projects. Facilities are essentially required for job procurement as well as jobs/project execution, resulting into higher revenue generation.		1.41	Capacity to generate income of Rs. 4.57 Cr. per annum.	Completion in 2005-2006	
2. 2.1	<u>Renewals/Replacements.</u> Modular Furnishing.	Modular furnishing resulting into better space utilization and provide better working environment – Renting out of vacated space.		0.46	Rs.0.24 Cr. per annum rental income.	2005-2006	
2.2	NDT equipments	For getting IBR certificate for doing RLA jobs.		0.35	Earning Rs. 0.23 Cr. per annum.	2005-2006	

Department of Fertilisers

2.3	Others	Replacements are essential for smooth working of the organization and upgradation of existing facilities.		1.04	Normal repair/ replacements to maintain operation.	2005-2006	
	Total (2)			1.85			
	Grand Total			3.26			
6. Rashtriya Chemicals & Fertilizers Ltd.							
1.	Ammonia V Revamp Project at Trombay	Energy reduction		220.00	Energy reduction of 2 Geal/MT of Ammonia	Expected to be commissioned by June 2006	Adequate supply of Feed Stock
2.	Argon Recovery at Thal	To recover Argon from purge gas of Ammonia Plant		30.00	45MTPD of Argon	Jan 2007	Demand for Argon
3.	Methylamine Expansion	Production of Methylamines		2.98	6400 MTPA of Methylamines	June 2005 Commissioned	Demand for Methylamines
4.	Modernization of Concentrated Nitric Acid Plant	Modernize/Revamp of the existing vintage plant		5.00	Reliability of the existing plant.	Jan 2007	No risk perceived
5.	Renewals & Replacement other small schemes and studies for new projects			47.24	Energy reduction normal replacements etc.	Various dates	No risk perceived.
	Total			305.22			
7. Fertilisers and Chemicals Travancore Ltd. (FACT)							
A	ONGOING SCHEMES						
A.1	<u>PETROCHEMICAL DIVISION</u>						
A1.1	<i>Safety Corridor Cases(Continued from 1993 onwards)</i>	To pay compensation on land acquisition for setting up greenbelt as per MoEF requirement.	0.20				
A1.2	<i>Air Compressor Repair</i>	Operational requirement	0.30		100%	Dec'05	Any failure of other compressor will lead to total stoppage of the plant.
A1.3	<i>Replacing the cells of the cooling tower of CPP</i>	Operational requirement	0.60		100%	Sept'05	KSEB power failure will lead to total stoppage of the plant.

Department of Fertilisers

A1.4	<i>Chilling units for Flakers</i>	To avoid possible lump formation of product	0.05		100%	Mar'06	Rejection of bagged lactam due to lump foemation
	Sub-Total		1.15				
A.2	<u>UDYOGAMANDAL DIVISION</u>						
A2.1	<i>Improvement in Sulphuric Acid Plant (Cooling Tower)</i>	To reduce cost on energy	0.55		100%	Aug'05	Higher acid temperature will restrict the plant operation
	Sub-Total		0.55				
A.3	<u>COCHIN DIVISION</u>						
A.3.1	<i>Structural Repairs in Willingdon Island</i>	Safety and structural integrity	0.75		100%	Mar'06	Structural collapse will cease the unloading of raw materials
A.3.2	<i>Assessment of Ammonia storage tank at WI</i>	As per Supreme Court directive	0.10		100%	Mar'06	Balance works are to be completed
A.3.3	<i>Heat Exchanger for IAT-SAP</i>	Operational requirement	0.40		100%	Nov'05	Failure of Heat Exchangers will reduce acid production substantially
	Sub Total		1.25				
	ONGOING SCHEMES TOTAL		2.95				
DCS Upgradation - Petrochemical Division							
B.1.1	<i>Upgradation of DCS</i>	To replace the obsolete syatem and for safer plant operation	2.50		100%	Mar'06	Failure of the existing DCS will result in total collapse of production in the Division
New Items under R & R							
B.2	<u>UDYOGAMANDAL DIVISION</u>						
B.2.1	<i>Procurement of New stack gas analyser in 300 TPD amofos, 150 TPD amophos Plant and New Ammonium sulphate Plant</i>	Statutory requirement as per directive from Kerala state Pollution Control Board(KSPCB)	0.70		100%	Dec'05	If not done, KSPCB may not issue the consent to run the Division
B.2.3	<i>Repair works in Phos acid Plant</i>	To improve capacity utilisation and arrest P2O5 loss	1.50		100%	Mar'06	Cost reduction measure
	Sub-Total		2.20				

Department of Fertilisers

B.3	<u>COCHIN DIVISION</u>						
B 3.1	<i>Air Drying Tower in SA Plant</i>	To replace 15 years old tower for operational requirement	2.00		100%	Mar'06	Stoppage of production due to collapse of the tower
B 3.2	<i>Structural Repairs in CD Plants</i>	In order to safe running of the plant	0.50		100%	Dec'05	Safety aspect
B 3.5	<i>Decommissioning, Repair and Testing of Ammonia Tank at CD.</i>	Safety reasons	0.45		100%	Mar'06	Safety aspect
B 3.6	<i>Ammonia truck loading/unloading facilities at WI/UD</i>	To reduce the transportation cost	0.50		100%	Dec'05	Cost reduction measure
B 3.7	<i>Lorry loading chute in Phase II bagging</i>	To reduce the transportation cost	0.17		100%	Jan'06	Cost reduction measure
B 3.8	<i>Filter feed pump in PAP</i>	Operational requirement	0.50		100%	Mar'06	Stoppage of production
B 3.9	<i>Railway track repair works</i>	For uninterrupted product movement	0.50		100%	Mar'06	Supply of product will be affected
B 3.10	<i>Turbine for cooling water pump in SAP for utilising excess steam</i>	To utilise excess MP steam in order to save energy	0.20		100%	Dec'05	Cost reduction measure
B 3.11	<i>Pumps in PAP (6 Nos)</i>	To replace old pumps and uninterrupted operation of the Plant	1.00		100%	Mar'06	Stoppage of production
	Sub Total		5.82				
B 4.3	<i>Improvement to communication facilities (OIS).</i>	Replacement of old communication equipments	0.25		100%	Dec'05	On line Integrated System between Divisions will be affected
	New items under R & R Total		8.27				
R & R items							
1	R & R Items						
	i.PETROCHEMICAL DIVISION	Essential renewal and replacement items and various spares items	2.63		100%	Mar'06	Production interruption

Department of Fertilisers

	ii. UDYOGAMANDAL DIVISION	Essential renewal and replacement items and various spares items	3.93		100%	Mar'06	Production interruption
	iii. COCHIN DIVISION	Essential renewal and replacement items and various spares items	4.62		100%	Mar'06	Production interruption
	R & R Items Total		11.18				
2	Contingency R & R items	Replacement of collapsed cooling tower for CPP-PD for operational urgency and installation of waste heat boiler in SAP-UD for saving huge energy	10.00		100%	Mar'06	Operational safety and cost reduction measures
Other Projects							
B 2.2	Flexibility in operation in Ammonia Plant - UD (low load operation)	To reduce the cost of production by using imported ammonia	2.00		75%	July'06	Cost reduction measure
B 3.7	Modifications in Ammonia storage tank in WI	As per EIL recommendation for using the Ammonia Tank	2.10		67%	Nov'06	Safety aspect
B 4.1	Landfill for Hazardous Waste disposal as per CPCB/SCMC directions.	Statutory requirement as per directive from KSPCB/CPCB/SCMC	1.00		100%	Nov'05	Will invite closure notice from KSPCB
	Other Projects Total		5.10				
	Total Outlay		40.00				
8. Krishak Bharti Cooperative Ltd.(KRIBHCO)							
	Third Stream Ammonia/Urea Expansion Project, Hazira	To fill the gap in domestic demand supply of Urea and improve profit		525.00			The amount of Rs. 525 Crores proposed to be incurred during the year; as the project has a completion period of 34 months and the year 2005-06 will be the first year of implementation hence, the effect of this expenditure in the year 2005-06 cannot be assessed.

Department of Fertilisers

	Renewals and Replacements			10.00	The amount of Rs. 10 Crores is envisaged for the Renewals and Replacements during the year on the Schemes that are taken up by the Society based on the health assessment of the Plant, NDT, and schemes in the nature of operational necessity. Hence, this expenditure has no direct identifiable, measurable and monitorable outcome.		
	Bi-metallic Urea Strippers			5.00	In case of Bi-metallic Urea Strippers the proposed Plan Outlay is of Rs. 5 Crores. This is a Preventive Maintenance scheme and it was observed during Shut-down of Plants in 2004 that in order to avoid unforeseen failure of the tubes which could lead to Urea production losses, the need for replacement was felt. The Purchase Order for new Bi-Mettalic Urea Strippers has already been placed and delivery is due in April/May 2006 and major expenditure will be incurred during 2006-07. Therefore, there will be no measurable or quantifiable effect of this replacement in the year 2005-06		
	Power Project at Pipavav			1.00	A token provision has been made.		
	Joint Venture Iran Project			1.00	A token provision has been made.		
	Total			542.00			
9. Others							
	1.Rainfed Farming Project with the help of external grant	1.Demonstration to farmers for their benefit	14.95		Not amenable to quantifiable/deliverable	NA	
	2. S&T study by IIT, Delhi	2.To gain insight of processes	2.0				
	3. IT		1.09				
	Total		18.04				
	TOTAL DOF		111.82	905.48			