

14TH

ANNUAL REPORT 2004-2005



INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY
Registered under Societies Registration Act, 1860 (Regn. No. S-21944/1991)
Sector-20. Udyog Vihar, Gurgaon - 122 016 (Haryana)



14th
Annual Report
2004 - 2005



Introduction

The Institute of Pesticide Formulation Technology (IPFT) has completed its 14th year of operation. During the year IPFT has continued to get ample support from the Department Of Science & Technology, Department of Bio-Technology, Central Pollution Control Board & Kraft Food Inc., USA. During the year, the Institute got a project on Method Development and validation of multi-residue analysis of Organochlorine and Organo-phosphorus pesticides from OPCW, the Hague.

The Institute continued to function as the Technical Coordinator Unit of the Regional Network on Pesticides for Asia and the Pacific (RENPAF) of the UNDP/UNIDO in the field of pesticide formulation technology development and quality assurance.

Objectives of the Institute

The main objectives of the Institute of Pesticide Formulation Technology as given in the Memorandum of Association of the Society are :

1. Development and production of the state-of-the art user and environment friendly pesticide formulation technology.
2. Promotion of efficient application technologies suiting the existing requirements of the newer formulations.
3. Information dissemination of safe manufacturing practices, quality assurances, raw material specification and sources.
4. Analytical and consultancy services.
5. Fostering the improvement in the qualification and usefulness of pesticide scientists working in the agrochemical area.
6. Continuing education through specialized training for pesticide personnel.



Activities during the year under report

The major achievements made by the various divisions of the Institute are summarized below :

i) Formulation Division

During the year the Formulation Division worked on the following projects :

S.No.	Projects	Name of the Party	Status
1.	CS formulation for 5 ML16	Sulphur Mills	Studies completed
2.	Neemazol Formulation	EID Party (I) Ltd.	Developmental Work in progress to improve shelf life

The work on the following sponsored projects continued satisfactorily.

S.No.	Name of the projects	Sponsored by
1.	Prospecting for botanical pesticides	Deptt. of Bio-technology.
2.	Review of technological options for reduction of toxicity factor for treated and untreated effluents from pesticide industries.	CPCB, New Delhi.
3.	Development of low emulsifiers concentration food micro-emulsion formulation.	Kraft Foods Inc., USA

The various organizations approached this Division for sample testing for particle size distribution for various industries and they were serviced in respect of 926 samples.



ii) Analytical Division

This Division continued to consolidate its activities towards development of new methods for analysing active ingredients of pesticides, method validation, modification of existing methods, Quality Control & Quality Assurance & residue analysis.

During the year the Analytical division has got the following projects on Residue studies.

S.No.	Name of the projects	Sponsored by
1.	Studies on residues of Acetamiprid in Rice, Straw & Soil.	Gharda Chemicals Ltd.
2.	Studies on residues of Acetamiprid in Chilli & Soil.	Gharda Chemicals Ltd.
3.	Residue studies of Indoxacarb in Cotton.	Excel Crop Care Ltd.

iii) Bio-Science Division

The division continued to work on the sponsored projects by utilizing its well equipped bio-assay laboratory, green houses and experimental farm. It has continued to work in coordination with the Formulation Division and Process Development Division in order to evaluate various products biologically and generating necessary data for registration purpose.

During the year 2004-2005 the division has got the following projects :

S. No.	Projects	Name of the Party
1	Bio-efficacy and phytotoxicity studies of Acetamiprid 20% SL against insect-pests of cotton crop.	Ghadra Chemicals Ltd.
2	Bio-efficacy & phytotoxicity studies of Acetamiprid 20% SP vis-à-vis 20% SL against insect-pests of paddy crop	-do-
3	Bio-efficacy studies of Mepiquat Chloride 5% AS in paddy crop	-do-
4	Bio-efficacy studies of Mepiquat Chloride 5% AS in cotton crop	Ghadra Chemicals Ltd.



- | | | |
|----|---|----------------------------|
| 5 | Bio-efficacy and Phytotoxicity studies of Cypermethrin 10% EC vis-à-vis Cypermethrin 10% EW against insect-pests of Okra | Ghadra Chemicals Ltd. |
| 6 | Bio-efficacy and Phytotoxicity studies of Acetamiprid 20% SP vis-à-vis 20% SL against insect-pests of chilli | -do- |
| 7 | Bio-efficacy and Phytotoxicity evaluation of different formulations of seaweed extract powder on wheat crop | Crystal Phosphate Ltd. |
| 8 | Bio-efficacy and Phytotoxicity evaluation of Emamectin benzoate 1.9% in comparison with Proclaim against worm pest of tomato | -do- |
| 9 | Bio-efficacy evaluation of Ammonium salt of Glyphosate 20% SL (XL-20 AG) for the control of weed in noncrop area | Excel Crop Care Ltd. |
| 10 | Bioefficacy evaluation of Glyphosate+2, 4-D combination for the control of weed in non-crop area | -do- |
| 11 | Bioefficacy and Phytotoxicity evaluation of Endosulfan 50 WDG against gram pod borer (<i>Helicoverpa armigera</i>) in gram crop | -do- |
| 12 | Bioefficacy and Phytotoxicity evaluation of Endosulfan 50 WDG against fruit borer in okra crop | -do- |
| 13 | Bioefficacy and Phytotoxicity evaluation of Fenpyroximate (XL-05) against chilli mite | -do- |
| 14 | Bioefficacy and Phytotoxicity evaluation of Oryzalin(XL-40SC) against weeds in onion crop | -do- |
| 15 | Bioefficacy and Phytotoxicity evaluation of Tricentanol (PGR) in Wheat crop | Godrej Agrovat Ltd. |
| 16 | Bioefficacy and Phytotoxicity evaluation of Tricentanol (PGR) in Onion crop | -do- |
| 17 | Bioefficacy and Phytotoxicity evaluation of Tricentanol (PGR) i n Potato Crop | -do- |
| 18 | Residue studies of Indoxacarb 14.5% SC in Cotton Crop (up to crop growing, spraying and sample collection) | Excel Crop Care Ltd. |
| 19 | Residue Studies of combination products (Acetamiprid + Cypermethrin) in Cotton Crop (up to crop growing, spraying & sample collection) | Ghadra Chemicals Ltd. |
| 20 | Residue studies of Acetamiprid 20% SP vis-à-vis 2% SI in chilli (upto crop growing, spraying and sample collection) | -do- |
| 21 | Bio-efficacy and Phytotoxicity studies of HM (Hexaconazole + Mencozeb) against the diseases of paddy crop. | Indofill Chemicals Company |
| 22 | Bio-efficacy and Phytotoxicity studies of TM (Tricyclazole + Mencozeb) against the diseases of paddy crop. | -do- |



iv) Process Development

The process development group continued to interact with the prospective sponsoring industries for transferring the process technology package. It was observed that the industries are not very willing to come forward for the Phase II part of the project due to non-protection of data generation by the Institute for Section 9(3) Registration Act of Government of India for the new formulations being sponsored by them.

During the year the division undertook job work and the details of which are as under :

S.No.	Project	Industry
1.	Grinding work	ISEO Chemicals.
2.	Grinding work	Dalas Bio-tech.
3.	Grinding work	Oriental Chem. & Carbon.

Workshops/Seminars/Training Programmes organized.

During the year, IPFT organized the following Programmes.

1. **Training Programme on Eco-friendly Formulations Development with PMFAI at Mumbai** - With a view to enrich the knowledge of manufactures / formulators of agro-chemical with regard to ecofriendly formulations, a one and a half day training programme was organized at Mumbai from 15th - 16th July, 2004.
2. **Workshop on Pesticide Data Requirements for Registration in India** - Two days Workshop on Pesticide Data Requirement for Registration in India was organized at IPFT from October 28th - 29th, 2004.
3. **Workshop on Production of User & Environment Friendly Pesticide Formulation & Quality Assurance** - IPFT in co-operation with RENAP - UNIDO organized a Workshop on Production of User & Environment Friendly Pesticide Formulation & Quality Assurance to assist the member countries of the Network in strengthening their capabilities in the field of pesticide formulation from November 22nd-26th, 2004. In this workshop limited number of seats were ear-marked for Indian pesticide industry personnel.



Regional Network on Safe Pesticides Production and Information for Asia and the Pacific (RENPAF)

The Institute continued to function as Technical Coordinator Unit (TCU) of the Regional Network on Safe Pesticides Production and Information for Asia and the Pacific (RENPAF) of UNDP/UNIDO on user and environment friendly pesticide formulation technology and quality assurance. The Institute also continued to provide on behalf of the Government of India the secretarial assistance and logistic support to the RENPAF.



Governing Body of the Institute of Pesticide Formulation Technology

- 1 Secretary (C&PC), Department of Chemicals & Petrochemicals – **Chairman.**
- 2 Addl. Secretary & Financial Advisor, Ministry of Chemicals & Fertilizers.
- 3 Joint Secretary (Chem.), Department of Chemicals & Petrochemicals.
- 4 Joint Secretary (PP), Department of Agriculture & Co-operation.
- 5 Joint Secretary, Ministry of Health & Family Welfare.
- 6 Joint Secretary, Ministry of Environment & Forests.
- 7 Representative of Department of Science & Technology.
- 8 Commissioner & Secretary (Industries), Govt. of Haryana, Chandigarh.
- 9 President Crop Care Federation of India.
- 10 Chairman, Crop Life India.
- 11 President, PMFAI, Mumbai
- 12 Chairman, Northern Region, ICMA of India.
- 13 Director - IPFT.

Finance & Administrative Committee of Institute of Pesticide Formulation Technology

- 1 Addl. Secretary & Financial Advisor, Ministry of Chemicals & Fertilizers- **Chairman.**
- 2 Joint Secretary (Chem.) Deptt. of Chemicals & Petrochemicals.
- 3 Director – IPFT.



Accounts & Audit



RAJ VINAY & ASSOCIATES

Chartered Accountants

Phone : 011-25253424

011-25287814

E-mail : raj_kapoor@rediffmail.com

AUDITOR'S REPORT

TO THE MEMBERS OF

INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY

We have audited the attached Balance Sheet of Institute of Pesticide Formulation Technology (a Society duly registered under Society Registration Act) as at 31st March 2005 and the Income & Expenditure Account for the year ended on that date annexed thereto. These financial statements are the responsibility of the Society's management. Our responsibility is to express an opinion on these financial statements based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in India. Those Standards require that we plan and perform the audit to obtain reasonable assurance about whether financial statements are free of material misstatements. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management as well as evaluating the overall financial statement presentation.

We believe that our audit provides a reasonable basis for our opinion and report that :

- I. Land being used by the Institute of Pesticide Formulation Technology including Land on which Hostel Building & New Laboratory Building have been constructed belong to M/s Hindustan Insecticides Ltd and the transfer of the same in the name of Institute of Pesticide Formulation Technology is still pending. The legal implications of the transfer of the Hostel Building & New Laboratory Building have not been ascertained & no provision for any liability in this respect has been made.
- II. The said Balance Sheet and Income & Expenditure Account are in agreement with the books of account.
- III. In our opinion and to the best of our information and according to the explanations given to us, the said accounts subject to what is stated in paragraph I above and Para 6A-I regarding Capitalization of Hostel Building, Para 6A-II regarding Capital Work in Progress of Hostel Building and other notes in Schedule - "F" of Accounting Policies and Notes to Accounts give a true and fair view :
 - i. in the case of Balance Sheet, of the state of affairs of the Society as at 31st March, 2005 and
 - ii. in the case of Income and Expenditure Account, of the Excess of Expenditure over Income of the Society for the year ended on that date.

Place: New Delhi
Date: 22-9-2005

**For RAJ VINAY & ASSOCIATES
CHARTERED ACCOUNTANTS**



BALANCE SHEET

AS AT 31ST MARCH, 2005

	SCHEDULE NO	AS AT 31.3.2005	AS AT 31.3.2004
SOURCES OF FUNDS			
Capital & Funds	A	117103579.22	100726219.74
Current Liabilities & Provisions	B	14187031.88	15279621.85
	TOTAL Rs.	131290611.10	116005841.59
APPLICATIONS OF FUNDS			
Fixed Assets :	C		
Gross Block		67644621.14	64762516.85
Less: Depreciation		4640041.18	3966939.01
		63004579.96	60795577.84
Investments	D	10405530.00	10279415.00
Current Assets, Loans & Advances	E	57880501.14	44930848.75
	TOTAL Rs.	131290611.10	116005841.59
Accounting Policies and Notes to Accounts	F		

Schedules referred to above form an integral part of the Balance Sheet as per our report of even date attached.

For Raj Vinay & Associates
Chartered Accountants

Sd/-
(R. Kapoor)
Proprietor

Sd/-
(N. K. Jain)
ACC

Sd/-
(J. P. Singh)
Head (Fin/Adm/Trg)

Place : New Delhi
Date : 22-09-2005



**INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED 31ST MARCH, 2005**

PARTICULARS	SCHEDULE No.	Year ended 31.3.2005	Year ended 31.3.2004
INCOME			
Testing Charges		499750.00	359550.00
Income from Project (Bio-Science)		-	180000.00
Job Work (Pilot Plant)		169250.00	166000.00
Seminars & Workshop		194226.45	36748.00
Interest on Deposits		1380885.20	1626076.92
Sale of Tenders		51500.00	42000.00
Miscellaneous		6472.00	9525.00
	TOTAL Rs.	2302083.65	2419899.92
EXPENDITURE			
Establishment	G	7457096.75	6788010.45
Administrative	H	2228652.10	2020937.87
Operational Expenses	I	402963.65	88886.08
Other Expenses	J	392698.48	304849.00
Depreciation	C	673102.17	636166.58
		11154513.15	9838849.98
Excess of Expenditure over Income		-8852429.50	-7418950.06
	TOTAL Rs.	2302083.65	2419899.92
Accounting Policies and Notes to accounts	F		

Schedules referred to above form an integral part of the
Income & Expenditure Account
As per our attached report of even date
For **RAJ VINAY & ASSOCIATES**
Chartered Accountants.

Sd/-
(R. Kapoor)
Proprietor

Sd/-
(N. K. Jain)
ACC

Sd/-
(J. P. Singh)
Head (Fin/Adm/Trg)

Place : New Delhi
Date : 22-09-2005



INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY

SCHEDULE "A" -- CAPITAL & FUNDS

CAPITAL ACCOUNT

	AS AT 31.3.2005	AS AT 31.3.2004
Balance as per Last year	88625334.06	85654284.12
Add Government Grant in aid	24465000.00	10390000.00
TOTAL Rs.	113090334.06	96044284.12
Less : Excess of Expenditure Over Income	8852429.50	7418950.06
	104237904.56	88625334.06

CORPUS FUND

Balance as per Last Year	7031351.00	6524831.00
Add : Interest Income for the year	462453.00	506520.00
TOTAL Rs.	7493804.00	7031351.00

MEMBERSHIP FUND

Balance as per Last Year	5069534.68	4645999.00
Add : Interest Income for the year	302335.98	423535.68
	5371870.66	5069534.68
TOTAL Rs.	117103579.22	100726219.74



SCHEDULE 'B' - CURRENT LIABILITIES & PROVISIONS

	AS AT 31.3.2005	AS AT 31.3.2004
Fund received for seminar/workshop	275000.00	0.00
Expenses Payable	550480.57	543902.97
Amount Payable to United Nation Development Project	691440.00	691440.00
Amount Payable to Hindustan Insecticide Ltd.	3692063.46	4916502.21
Advance for Neem Project	598657.20	2240000.00
Advances Received from parties	4718403.76	2957999.78
Advance received against Chemicals Weapon Convention	1151532.65	1151532.65
Security Deposits	452666.24	1592073.24
Provision for Gratuity	1532260.00	1146171.00
Earnest Money Deposits	523200.00	40000.00
Sales Tax on Work Contract	1328.00	0.00
TOTAL Rs.	14187031.88	15279621.85

SCHEDULE 'D'- INVESTMENTS

Fixed Deposits with Banks (Corpus Fund)	5863894.00	5863894.00
Fixed Deposits with Banks (Membership Fund)	4541636.00	4415521.00
TOTAL Rs.	10405530.00	10279415.00

**SCHEDULE "C" OF FIXED ASSETS ATTACHED TO AND FORMING PART OF
BALANCE SHEET AS AT 31ST MARCH, 2005**



PARTICULARS	GROSS BLOCK AT COST			DEPRECIATION			NET BLOCK			RATE OF DEPRECIATION
	AS AT 1.4.2004	ADDITION	SALE / ADJUST.	AS AT 31.3.2005	AS AT 1.4.2004	FOR THE YEAR	AS AT 31.3.2005	AS AT 31.3.2005	AS AT 31.3.2004	
Capital Work in Progress	51449947.12	1931512.84	-	53381459.96	-	-	-	53381459.96	51449947.12	
Building	2100223.00	-	-	2100223.00	729689.67	34233.33	763923.00	1336300.00	1370533.33	1.63%
Furniture & Fixture	2741235.37	-	-	2741235.37	729236.96	173520.41	902757.37	1838478.00	2011998.41	6.33%
Office Equipment	774682.78	345985.00	-	1120667.78	210363.06	45013.72	255376.78	865291.00	564319.72	4.75%
Plant & Machinery	293899.22	-	-	293899.22	166684.71	13960.51	180645.22	113254.00	127214.51	4.75%
Laboratory Equipment	6854425.11	604606.45	-	7459031.56	198870.71	354303.85	2340174.56	5118857.00	4868554.40	4.75%
Vehicle	548104.25	-	-	548104.25	145093.90	52070.35	197164.25	350940.00	403010.35	9.50%
Total	64762516.85	2882104.29		67644621.14	3966939.01	673102.17	4640041.18	63004579.96	60795577.84	



SCHEDULE 'E'- CURRENT ASSETS, LOANS & ADVANCES

	AS AT 31.3.2005	AS AT 31.3.2004
Testing Charges Recoverable	588462.00	573522.00
Other Amounts Recoverable	668016.10	587219.10
Interest accrued but not due	1932429.68	1342241.68
Lab Equipment in transit	3013256.00	0.00
Bank balances in current accounts	3770924.61	529376.03
Fixed Deposits with Banks	41303652.00	27196698.00
Cash in hand	116.87	175.90
Cheques in hand	5200000.00	12640320.00
Advances to Staff	30783.37	19667.37
Security Deposits with Bharat Sanchar Nigam Ltd.	60000.00	60000.00
Advances to Parties	143422.50	49422.50
Prepaid Expenses	137507.00	134596.00
Security Deposits DHBVN	258875.00	258875.00
Due from RENPAP	773056.01	1538735.17
TOTAL Rs.	57880501.14	44930848.75



SCHEDULE "F" OF ACCOUNTING POLICIES & NOTES TO ACCOUNTS

1. Status

Institute of Pesticide Formulation Technology is a society duly registered under Society Registration Act established by Government of India.

2. Investments

Investments are shown in the Balance Sheet at cost.

3. Fixed Assets

- I. Fixed assets are shown at cost less accumulated depreciation.
- II. Depreciation on fixed assets has been provided on straight line method (SLM) at rates specified in Schedule XIV to the Companies Act, 1956.

4. Research & Development

Research & Development Costs (other than cost of fixed assets acquired) are charged as an expense in the year in which they are incurred.

5. Recognition of Income & Expenditure

- I Provision for Gratuity has been made on accrual basis.
- II Expenses incurred by M/s Hindustan Insecticides Ltd. for & on behalf of the Institute are being accounted for on the basis of claims of M/s Hindustan Insecticides Ltd.
- III Grant in aid of Rs. 2,44,65,000.00 received from Central Govt. (inclusive of Rs. 1,69,65,000.00 towards Capital items) has been credited to Capital account as per Accounting Policy of the Institute.
- IV Interest income on investments relating to Corpus & Membership Fund has been credited to respective fund in accordance with accounting policy of the Institute.



NOTES

1. Previous year figures have been regrouped / reclassified wherever necessary.
2. Current Assets, Loans & Advances have a value on realisation in the ordinary course of activities at least equal to the amount at which they are stated.
3. Balances of parties shown under Current Liabilities & Current Assets, Loans & Advances are subject to confirmation & reconciliation, if any.
4. Out of Grant of Rs. 15 Lacs received in earlier year, for upgradation of Analytical Laboratory for Chemicals Weapons Convention amount of Rs. 1151532.65 remains to be utilised.
5. Physical verification of assets transferred by M/s Hindustan Insecticides Ltd. (R&D) amounting to Rs. 54590.00 in the earlier year is still pending due to non-availability of the details.

6. Capital Work in progress

I Hostel Building 3825778.41

II New Laboratory Building 49555681.55

533811459.96

A Hostel Building

- I Building Expenses amounting to Rs 2100223.00 incurred by Pesticide Dev. Centre of M/s Hindustan Insecticides Ltd. Prior to inception of Institute of Pesticide Formulation Technology have been capitalised.
- II Building Expenses of Rs. 3825778.41 incurred by the Institute of Pesticide Formulation Technology have been shown as capital work-in-progress for which no depreciation has been charged pending receipt of Completion Certificate.

B New Laboratory Building

Construction work is in progress.

7. Lab equipment was imported at a cost of Rs. 30,13,256.00 & the same was in transit at a date of Balance Sheet

For Raj Vinay & Associates
Chartered Accountants

Sd/-
(R. Kapoor)
Proprietor

Sd/-
(N. K. Jain)
ACC

Sd/-
(J. P. Singh)
Head (Fin/Adm/Trg)

Place : New Delhi
Date : 22-09-2005

**SCHEDULE 'G'- ESTABLISHMENT**

	YEARENDED 31.3.2005	YEARENDED 31.3.2004
Salary & Wages	5929447.73	5419011.53
Contribution to P.F., Adm. & DLI Charges	592227.50	602353.00
Bonus	36405.00	37005.00
Staff Welfare	21627.50	20359.50
LTC	110191.70	130531.20
Transport Allowance	115322.00	127125.00
Medical	186120.32	202215.85
Gratuity	450025.00	229574.00
Canteen Subsidy	15730.00	19835.37
TOTAL Rs.	7457096.75	6788010.45

SCHEDULE 'H'- ADMINISTRATIVE

Printing & Stationery	72015.00	84354.00
Travel & Conveyance	188074.05	175684.95
Postage, Telegram & Telephone	91423.35	143301.00
Electricity Charges including Diesel	1185872.76	986281.63
Vehicle Running & Maintenance	65042.00	88182.36
Newspaper & Periodicals	5172.15	2253.60
Repair & Maintenance	241083.84	190598.00
Miscellaneous	0.00	1100.82
Security Charges	379968.95	349181.51
TOTAL Rs.	2228652.10	2020937.87



SCHEDULE 'I' - OPERATIONAL EXPENSES

	YEARENDED 31.3.2005	YEARENDED 31.3.2004
Laboratory Expenses	337064.82	71563.00
Chemicals	45374.83	7015.08
Expenses on ISO	-	5700.00
Pilot Plant Expenses	20524.00	4608.00
TOTAL Rs.	402963.65	88886.08

SCHEDULE 'J'- OTHER EXPENSES

Entertainment	21519.00	23056.00
Insurance	121934.00	108294.00
Bank Charges	12078.00	13065.00
Auditor's Remuneration	7500.00	8100.00
T. A. to Auditors	3600.00	2500.00
Consultancy/Legal & Professional	163405.50	135150.00
Advertisement & Publicity	29567.00	-
Prior Period Expenses	33094.98	14684.00
TOTAL Rs.	392698.48	304849.00

As per our report of even date attached.

For Raj Vinay & Associates
Chartered Accountants

Sd/-
(R. Kapoor)
Proprietor

Sd/-
(N. K. Jain)
ACC

Sd/-
(J. P. Singh)
Head (Fin/Adm/Trg)

Place : New Delhi
Date : 22-09-2005

