

ANNUAL REPORT

8TH

1998-99



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

8th
Annual Report
1998-99



INTRODUCTION

In its eighth year of operation, the Institute of Pesticide Formulation Technology continued to enjoy the confidence of the Indian pesticide industry and progressed steadily towards developing more and more user and environment friendly pesticide formulations for the benefit of the Indian farmers. The Institute continued to receive active assistance of the UNDP/UNIDO, the Department of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers, Government of India and progressed towards developing a self-contained campus with comprehensive residential training facilities attaining international standards. The Institute continued to enjoy the recognition of the Department of Scientific & Industrial Research, Ministry of Science & Technology, Central Insecticides Board and the Registration Committee of the Ministry of Agriculture. The Institute is also one of the Technical Coordinator Units of the Regional Network on Pesticides Production & Information 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 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 technologies.
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 specialised training for pesticide personnel.

ACTIVITIES DURING THE YEAR UNDER REPORT

The Institute functions under four major Divisions, viz. Formulation, Analytical, Bio-Sciences and Process Development. The activities carried out by these Divisions are reported below :

Formulation Division

During the year under review, the Institute reformulated its strategy to develop greater thrust in the implementation of projects sponsored by the industry and the development of coordinated research projects jointly with the scientific organisations and the Institutes of excellence. In pursuance, the Institute arranged to sign technology development agreements with CSIR and the IIT, Delhi.

The details of the studies undertaken by the formulation laboratory during the year 1998-99 are as follows :

Sponsored projects

During the year 1998-99, the following projects were sponsored by M/s United Phosphorus Limited (UPL), M/s Excel Industries Limited (Excel), M/s Atul Chemicals & M/s Parul Chemicals :



No.	Project	Name of party	Status
1.	Endosulfan 35 SC	Excel	Phase II completed
2.	Sulphur 52 SC	UPL	Phase II completed
3.	Carbendazim 85 WG	UPL	Phase II completed
4.	Cypermethrin 40 WG	UPL	Phase II completed
5.	2.4.D. WG	Atul	Ready for Ph. I demonstration.
6.	Quinalphos 20 EW	Parul	Ready for Ph. I demonstration.
7.	Chlorpyrifos 25 CS	Parul	Ready for Ph. I demonstration.

Development studies

Exploratory studies have been completed for Azadirachtin 0.3% Granule. Studies on Azadirachtin 0.1% dust and Phosphomidon 42.5% WP formulation development have been undertaken by the Division.

Processing Job Works

In addition to the developmental studies, laboratory processing facilities for wet milling were extended to M/s Bayer AG and M/s Hoechst AG.

Particle size testing

During the year under review more than 500 samples were tested for particle size distribution for various industries.

Projects anticipated

United Phosphorus Limited has indicated their willingness to sponsor the following project for 1999-2000 :

- | | |
|-------------------|-----------------|
| 1. Mancozeb WG | 2. Deverinol WG |
| 3. Metameturon WG | 4. Metibuzin WG |

Against the above four projects M/s. UPL has released an advance of Rs. 3.24 lakhs during the year 1998-99 which was physically received in April 1999. They have also released an advance of Rs. 1.25 lakhs for Phosphomidon. M/s Excel Industries has also released an advance of Rs. 5.00 lakhs for the projects to be undertaken during 1999-2000.

M/s EID Parry has shown interest for sponsoring the following projects :

1. Aza 0.2% spreading formulation for mosquito control.
2. Aza 0.4% cream for mosquito control.
3. Aza 15% Microemulsion for agriculture use.
4. Aza 10% Mosquito mat as an alternative to Allethrin
5. Aza 0.1% mosquito coil as an alternative to Allethrin.
6. Aza based fumigant as an alternative to Methyl Bromide and Ethylene Dibromide.



Analytical Division

The major thrust of the Division has been to develop new methods for analysing active ingredients of pesticides, method development, method validation, modification of existing methods, impurity profile analysis and pesticide sample analysis for Quality Assurance and Quality Control. The laboratory is fully equipped with the state of the art analytical equipments and is recognised by Bureau of Indian Standards, Collaborative International Pesticides Analytical Council Limited, RENPAP Analytical Council and GTZ.



GAS CHROMOTOGRAPH

During the year under review, the Division has analysed about 300 samples of different pesticide industries/agencies.

Method Development

1. The Institute has developed a GLC method for determining active ingredient content of cyfluthrin.
2. A HPLC method has been developed for active ingredient analysis of Phosphomidon.

Collaborative studies

1. **Collaborative International Pesticide Analytical Council Limited (CIPAC)** : The collaborative studies under CIPAC for active ingredient analysis of Ametrol has been carried out.
2. **GTZ Collaborative studies** : A collaborative study for the analysis of Azadirachtin content in Neem seed kernels is in progress.
3. **BIS Collaborative Study** : A collaborative study with Central Insecticides Laboratory/Registration Committee and BIS for developing a HPLC method for determination of azadirachtin content in commercial formulations of neem has been undertaken.

Projects anticipated

The following projects are anticipated for the year 1999-2000.

1. **Sample analysis** : About 350 samples for pesticides from Bureau of Indian Standards and the pesticide industry.



2. **Establishment of chemical equivalence** : From the pesticide industry.
3. **Shelf-life study** : Topsin M WP and Mancozeb WG formulations from M/s Hindustan Insecticides Limited, New Delhi.
4. **Impurity profile analysis** : From M/s United Phosphorus Limited.
5. **Method development** : From M/s EID Parry Limited and M/s Hindustan Insecticides Limited.

Chemical Weapons Convention (CWC)

The Institute participated in the inspection alongwith CWC inspectors for CWC chemicals and participated in the Round Robin IV and V tests organised by OPCW, The Hague.

In order to meet the highest precision needs of the OPCW Round Robin tests, GC MSD and Dionex Extraction system have been procured during the reporting year.

BIO SCIENCE LABORATORY

Through its well equipped bio-assay laboratory, green houses and experimental farm, the Division is working in coordination with the formulation Division and Process Development Division in order to evaluate various products biologically and generating necessary data for registration purposes.

During the year, the IPFT has made good progress with Ministry of Agriculture to obtain accreditation of the CIB/RC for its data generation programme.

During the year 1998-99, the Division has completed/carried out the studies which are summarised as under :

1. **Bio efficacy and Phytotoxicity of Chlorpyrifos 50 WP and Endosulfan 50 WP formulation** :

The project on bio efficacy and phytotoxicity of Chlorpyrifos 50 WP and Endosulfan 50 WP formulations on okra and cotton crops for two consecutive years were sponsored by M/s Excel Industries Limited, Mumbai. The final report has been submitted to M/s Excel Industries Limited. It is understood that the data so generated has been submitted to CIB for registration purpose as one location data.

2. **Field trial of formulations developed in IPFT viz. chlorpyrifos 55 ME, Quinalphos 20 EW, Aza 10% ME** were undertaken. The results are under the process of evaluation.

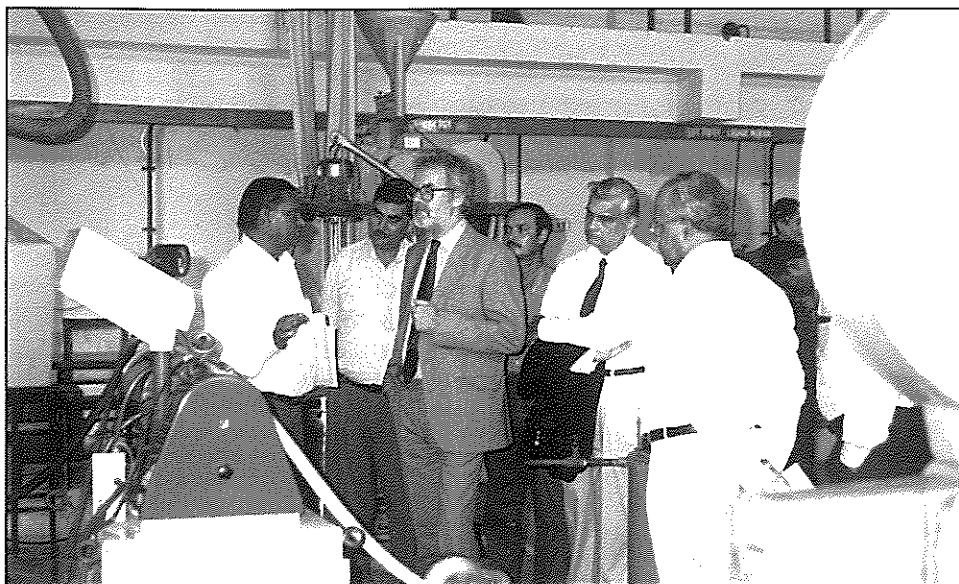
Projects anticipated

The following projects are expected to be sponsored by the industry :

1. **Bio efficacy studies of Phosphomidon 42.5 WP** by M/s United Phosphorus Limited.
2. **Soil and water leaching studies of Thiram WP** by M/s Swarup Chemicals.

PROCESS DEVELOPMENT

The Process Development Group has continued to work with the industry to obtain working on developing sponsored projects. Also as decided by the Governing Committee, each project sponsored by the industry is being transferred alongwith the process technology package and this has added to the generation of income.



MR. RICHARD CONROY, SENIOR DEPUTY RESIDENT REPRESENTATIVE, UNDP, NEW DELHI
HAVING DISCUSSIONS ON THE FUNCTIONING OF DYNO MILL.

The studies completed/carried out in the pilot plant are summarised below :

- a) Job work for processing special type of filler was carried out for M/s Ranbaxy India Limited by using the Fluid Energy Mill System.
- b) Job work for M/s Hoechst AgroEvo for producing Deltamethrin 2.5 AF formulation.
- c) Job work for M/s Bayer AG for producing Cyfluthrin 3.5 EW formulation.
- d) Job work for M/s United Phosphorus Limited for production of Isoproturon 75 SC formulation.

In House formulation development work

Various pilot plant equipments were used by the formulation development laboratory for in house formulation development work. The equipments used were Lodige Mixer, Ribbon Blender, Fluid Energy Mill etc.

During the year, the Institute has acquired a state of the art Auto filling system through the UNDP/ UNIDO funding.

Job work anticipated

The following job works are anticipated;

1. Water Dispersible Granule formulation from M/s Sulfur Mills Limited, Mumbai, M/s United Phosphorus Limited (UPL), Mumbai, M/s Rallis India Limited, Mumbai and M/s Atul Chemicals, Atul, Gujarat.



2. Suspension concentrate formulations of various products from M/s United Phosphorus Limited, Mumbai.
3. Semi-commercial development of formulations from M/s United Phosphorus Limited, Mumbai, M/s Sulfur Mills, Mumbai.

Interaction with the pesticide industry representatives

In order to generate more sponsored projects and samples for quality assurance purposes, a two-day meeting was organised on the 12th and 13th of January, 1999 by the Institute. This meeting was attended by Shri Shantanu Consul, Joint Secretary (Chemicals), Ministry of Chemicals & Fertilizers and senior representatives of the pesticide industry, CSIR, ICAR etc. The interaction comprised presentations by the IPFT's scientists of their capabilities followed by visits to the laboratories, pilot plant and effluent treatment plants of the Institute.



VISIT OF THE INDUSTRIALISTS TO THE PILOT PLANT
DURING INDUSTRY - IPFT INTERACTION



Inauguration of the Training Centre

With the completion of the fulfilled furnishing of the International Trainees Hostel facilities, it was formally inaugurated by Shri Dipak Chatterjee, Secretary, Deptt. of Chemicals & Petrochemicals, Ministry



SHRI DIPAK CHATTERJEE, SECRETARY, DEPTT. OF CHEMICALS & PETROCHEMICALS,
MINISTRY OF CHEMICALS & FERTILIZERS, INAUGURATING
THE INSTITUTE'S HOSTEL BUILDING.

of Chemicals & Fertilizers in a function attended by Mr. Richard Conroy, Senior Deputy Resident Representative, UNDP, New Delhi, Mr. W.S. Nanayakkara, UNIDO Country Director, Mr. Vinod Gupta, Programme Officer, UNDP, Shri Pradeep P. Dave, President, Pesticide Formulators Association, Mr. Rajju Shroff, Chairman, PAI and other dignatories from the Pesticide Industry. Immediately after the inauguration, the terminal Tripartite Review Meeting of the Pesticide Development Centre was held under the Chairmanship of Shri Dipak Chatterjee, Secretary, Deptt. of Chemicals & Petrochemicals, Ministry of Chemicals & Fertilizers.

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

The Institute continued to function as a Technical Coordinator Unit of the Regional Network on Safe Pesticides Production and Information for Asia and the Pacific (RENAP) 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 RENAP.



Management

1. Dr. S P Dhua, part-time Chairman.
2. Shri Shantanu Consul, Joint Secretary, Deptt. of Chemicals & Petrochemicals, Ministry of Chemical & Fertilizers.
3. Shri K M Chadha, Joint Secretary (Plant Protection), Ministry of Agriculture, Department of Agriculture & Cooperation, Krishi Bhawan, New Delhi.
4. Financial Adviser, Ministry of Chemicals & Fertilizers.
5. Dr. K V Raghvan, Director, Indian Institute of Chemical Technology, Hyderabad.
6. Science Secretary & Head (R&D), Council of Scientific & Industrial Research.
7. Joint Secretary (Incharge) Malaria Programme in the Ministry of Health, Nirman Bhawan, New Delhi.
8. Shri Rajendra Mohan, Chairman & Managing Director, Hindustan Insecticides Limited.
9. Director Agriculture, Department of Agriculture, Govt. of Punjab, Chandigarh.
10. President, Indian Crop Protection Association.
11. Secretary (Industries), Govt. of Haryana, Chandigarh.
12. Mr. Rajju Shroff, Chairman & Managing Director, United Phosphorus Limited, Mumbai.
13. Dr. K H Gharda, Chairman & Managing Director, Gharda Chemicals Limited, Mumbai.
14. Director, IPFT and ex-Officio Member Secretary.



Accounts and Audit



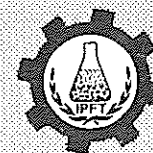
BALANCE SHEET

Figures for 1997-98			LIABILITIES	Figures for 1998-99		
IPFT	RENPAF	Total	HEAD OF ACCOUNT	IPFT	RENPAF	Total
-	-	-	Capital Account	18874159.85		-
			Transfer of CWC Advance	4300000.00		-
-	-	-	Add Grant in aid	30000000.00		-
-	-	-		53174159.85		-
18874159.85		18874159.85	Less Excess of Expn. Over income	3734020.87	49440138.98	49440138.98
-	-	-	Accum. Of Expn. Over Income	-370759.76		
	-370759.76	-370759.76	Add Excess of Expn. Over Income	-30262.88	-401022.64	-401022.64
4300000.00		4300000.00	Corpus Fund	4300000.00		4300000.00
2120000.00		2120000.00	Membership fund A/c.	2620000.00		2620000.00
418844.50		418844.50	Provision for Gratuity	433297.54		433297.54
5993.00		5993.00	Provision for Bonus	-		-
1026517.85		1026517.85	Provision for Depreciation	1226780.85		1226780.85
635726.09		635726.09	Expenses payable	501109.57		501109.57
137.90		137.90	TDS	-		-
691440.00		691440.00	Amount payable to UNDP	691440.00		691440.00
116439.64		116439.64	Amount payable to HIL (HO)	127534.15		127534.15
4409740.79		4409740.79	Amount payable to HIL (R&D)	2369627.85		2369627.85
8950.00		8950.00	Advance received from parties	3200.00		3200.00
5800000.00		5800000.00	Advance received against CWC project	1500000.00		1500000.00
	444293.06	444293.06	IPFT	-	474525.94	474525.94
153000.00		153000.00	Advance against project	500000.00		500000.00
-	-	-	Security Deposit	118663.00		118663.00
-	-	-	EMD	180000.00		180000.00
38560949.62	73533.30	38634482.92		64011791.94	73503.30	64085295.24

Sd/-
(J.P. Singh)
Head (F/A/T)

Sd/-
(Dr. D. Sengupta)
Director

AS ON 31-03-1999



Figures for 1997-98			ASSETS	Figures for 1998-99		
IPFT	RENPAF	Total	HEAD OF ACCOUNT	IPFT	RENPAF	Total
FIXED ASSETS						
3829153.41		3829153.41	Capital Work in progress	5928071.86		5928071.86
2100223.00		2100223.00	Building	2100223.00		2100223.00
275119.22		275119.22	Plant & Machinery	293899.22		293899.22
	5472.30	5472.30	Typewriter	-	5472.30	5472.30
318257.52	42691.00	360948.52	Furniture & Fixture	617517.48	42691.00	660208.48
309296.30		309296.30	Office Equipment	341296.30		341296.30
167864.25		167864.25	Vehicle	167864.25		167864.25
562362.56		562362.56	Laboratory Equipment	6412441.56		6412441.56
Investment						
4300000.00		4300000.00	Cor. Fund Inv. A/c.	4300000.00		4300000.00
2120000.00		2120000.00	Membership Fund Invest. A/c.	2620000.00		2620000.00
CURRENT ASSETS						
Cash & Bank						
102360.57		102360.57	SBI, New Delhi Current A/c.	232701.81		232701.81
221469.04		221469.04	SBI Dundahera Current A/c.	666390.30		666390.30
-	-	-	SBI, Dundahera A/c. 80241	680.36		680.36
6387.74		6387.74	Cash in Hand	415.92		415.92
16683872.00		16683872.00	SBI TDR	38100736.00		38100736.00
6000000.00		6000000.00	Cheques in Hand	-	-	-
ADVANCES						
33729.45	285.00	34014.45	Staff, Medical & others	10316.34	5.00	10321.34
8000.00	500.00	8500.00	Festival Advances to staff	9000.00	750.00	9750.00
-	-	-	LTC Advance	5144.50		5144.50
-	-	-	MTNL	45000.00		45000.00
35474.00		35474.00	Advance to Parties - DAVP	55071.00		55071.00
RECOVERABLE						
334480.00		334480.00	Testing charges	477490.00		477490.00
149712.00		149712.00	Interest receivable	434110.00		434110.00
1087.00		1087.00	Prepaid Expenses	86092.00		86092.00
557808.50	24585.00	582393.50	Other amounts recoverable	632804.10	24585.00	657389.10
444293.06		444293.06	RENPAF	474525.94		474525.94
38560949.62	73533.30	38634482.92		64011791.84	73503.30	64085295.24

As per Audit Report of Even date

Sd/-
(Gulshan Jhurani)
Partner
Gulshan Vineet & Associates
Chartered Accountants



INCOME & EXPENDITURE ACCOUNT

Figures for 1997-98			EXPENDITURE	Figures for 1998-99		
IPFT	RENPAF	TOTAL	HEAD OF ACCOUNT	IPFT	RENPAF	TOTAL
3247363.24	689745.40	3937108.64	Salary & Wages	3744325.86	756752.57	4501078.43
271057.00	26341.00	297398.00	Institute Contribution to PF	317493.50	59523.00	377016.50
17711.00	-	17711.00	Admn. Charges on PF	17148.00	2294.00	19442.00
10409.00	-	10409.00	DLI Charges on PF	9985.14	734.00	10719.14
-	-	-	Bonus	6345.00	-	6345.00
3546540.24	716086.40	4262626.64		4095297.50	819303.57	4914601.07
83340.22	4912.65	88252.87	Staff Welfare Expenses	28898.00	7191.50	36089.50
53365.94	-	53365.94	Transport Subsidy	48281.70	1152.00	49433.70
61978.20	10297.00	72275.20	LTC	97103.10	14601.50	111704.60
294590.61	22707.10	317297.71	Medical Expenditure	176330.09	21854.70	198184.79
51264.00	2189.00	53453.00	Gratuity	63641.00	2573.00	66214.00
51146.01	6986.90	58132.91	Leave Encashment	107063.08	44427.80	151490.88
61370.08	14019.10	75389.18	Canteen Subsidy	59565.22	15357.35	74922.57
5340.00	-	5340.00	Washing Allowance	2190.00	-	2190.00
-	10365.90	10365.90	Contribution to ESI	-	-	-
662395.06	71477.65	733872.71		583072.19	107157.85	690230.04
-	85374.02	85374.02	Expenses on PMC Meeting	-	-	-
106287.30	24110.65	130397.95	Travelling Expenses/Conveyance	346743.12	33334.80	380077.92
58999.85	2277.25	61277.10	Entertainment Expenses	31697.11	842.00	32539.11
5133.70	3876.00	9009.70	Miscellaneous Expenses	36138.40	3026.00	39164.40
84738.86	272.70	85011.56	Repair & Maintenance	293386.12	272.70	293658.82
46883.47	-	46883.47	Laboratory Expenses	110288.88	-	110288.88
-	-	-	Chemicals	208931.16	-	208931.16
30832.38	5653.00	36485.38	Postage, Telegram & Telephones	170692.25	7229.00	177921.25
-	-	-	Expenses of Bio-Science Test	-	-	-
22179.60	22179.60	44359.20	Rent, Rates & Taxes	43061.30	20331.30	63392.60
7985.50	-	7985.50	Insurance	11930.00	-	11930.00
208177.55	5589.50	213767.05	Electric Charges including Diesel	197657.54	12912.50	210570.04
53580.03	27426.35	81006.38	Printing & Stationary & other supply	55734.70	42926.64	98661.34
35787.92	15166.66	50954.58	Vehicle Maintenance	120843.10	4362.00	125205.10
167685.79	-	167685.79	Security Charges	242333.50	-	242333.50
27326.00	-	27326.00	Staff Training Expenses	2065.00	-	2065.00
207.50	-	207.50	Subscription & Membership Fees	-	-	-
2404.37	-	2404.37	Newspaper & periodicals	1400.75	-	1400.75
1166.00	-	1166.00	Bank Charges	4027.00	-	4027.00
327.50	-	327.50	Cartage & Coolage	425.00	-	425.00
3000.00	-	3000.00	Legal Expenses	-	-	-
5500.00	-	5500.00	Audit Fees	5500.00	-	5500.00
2000.00	-	2000.00	Remuneration to Auditors(other jobs)	2000.00	-	2000.00
121104.10	2962.00	124066.10	Depreciation	197301.00	2962.00	200263.00
-	-	-	Expenses on CWC	233873.79	-	233873.79
18371.00	-	18371.00	Consultancy Charges	77532.00	-	77532.00
14150.50	-	14150.50	Recruitment Expenses	54203.00	-	54203.00
50544.00	1778.00	52322.00	Debit relating to earlier years	90232.25	-	90232.25
-	77480.42	77480.42	Seminar & Workshop Expenses	62016.62	2060.52	64077.14
-	-	-	Less Income	-	-	-
-	-	-	Expenses on ETP/PP	74006.00	-	74006.00
-	-	-	Clearance Charges	71555.00	-	71555.00
17000.00	-	17000.00	Honorarium	-	-	-
-	-	-	Excess of Income over Expenditure	-	-	-
5300308.22	1061710.20	6362018.42		7423944.28	1056720.88	8480665.16

Sd/-
(J.P. Singh)
Head (F/A/T)

Sd/-
(Dr. D. Sengupta)
Director

FOR THE YEAR ENDING 31-03-1999



Figures for 1997-98

INCOME

Figures for 1998-99

IPFT	RENAP	TOTAL	HEAD OF ACCOUNT	IPFT	RENAP	TOTAL
-	500000.00	500000.00	Grant in Aid	-	500000.00	500000.00
-	-	-	Contribution from Industry	-	-	-
-	-	-	Membership Fee Recd.	-	-	-
-	-	-	Less Transferred to MF Fund	-	-	-
-	-	-		-	-	-
-	-	-	Membership fee fund account	-	-	-
-	-	-		-	-	-
-	-	-	Received from UNDP	0.00	526458.00	526458.00
-	-	-	Testing Charges	-	-	-
496980.00	-	496980.00	Analytical Lab	214540.00	-	214540.00
148285.00	-	148285.00	Formulation Lab	302250.00	-	302250.00
5192.25	-	5192.25	Seminar & workshop	-	-	-
-	-	-		-	-	-
-	-	-	Receipt	-	-	-
-	-	-	Less Expenses	-	-	-
553000.00	-	553000.00	Income from Project(FL)	225000.00	-	225000.00
168370.50	-	168370.50	Job work (PP)	602159.00	-	602159.00
-	-	-	Less Expenses	-	-	-
-	-	-	Training fee received	-	-	-
-	-	-	India	-	-	-
-	-	-	Foreign	-	-	-
825612.00	-	825612.00	Interest on Deposits	990684.91	-	990684.91
701972.50	-	701972.50	Income from Corpus Fund	610936.50	-	610936.50
-	-	-	Investment Account	-	-	-
315777.00	-	315777.00	Income from MF Invst. A/c.	294111.00	-	294111.00
-	-	-	Reimbursement by Central Govt.	-	-	-
-	-	-	Expenses of CWC	-	-	-
-	-	-	CWC Insepection fee recd.	-	-	-
-	-	-	Sale of Publication	-	-	-
55238.00	-	55238.00	Credit relating to earlier years	90890.00	-	90890.00
-	-	-	Misc. Income	98381.00	-	98381.00
2750.00	-	2750.00	Income from AMF Fund	2755.00	-	2755.00
216.00	-	216.00	Hire & Rent	216.00	-	216.00
-	-	-	Sale of Tender	258000.00	-	258000.00

2026914.97	561710.20	2588625.17	Excess of Expenditue over income	3734020.87	30262.88	3764283.75
			Carried forward to Balance Sheet			

5300308.22	1061710.20	6362018.42		7423944.28	1056720.88	8480665.16
------------	------------	------------	--	------------	------------	------------

As per Audit Report of Even date

Sd/-
(Gulshan Jhurani)
Partner
Gulshan Vineet & Associates
Chartered Accountants



SCHEDULE OF FIXED ASSETS

Particulars	Gross Block at cost			
	Cost as at 1/4/98	Additions During the Year	Transfer During the year	Total Cost as at 31.3.99
IPFT				
Capital Work in Progress	3829153.41	2098918.45	-	5928071.86
Office Equipment	309296.30	32000.00	-	341296.30
Plant & Machinery	275119.22	18780.00	-	293899.22
Furniture & Fixtures	318257.52	299259.96	-	617517.48
Laboratory Equipment	562362.56	5850079.00	-	6412441.56
Building	2100223.00	-	-	2100223.00
Vehicle	167864.25	-	-	167864.25
	7562276.26	8299037.41	-	15861313.67
RENPAF				
Furniture & Fixtures	42691.00	-	-	42691.00
Typewriter	5472.30	-	-	5472.30
	48163.30	-	-	48163.30

AS ON 31-03-1999



Rate of Depreciation %	Upto 31-03-98	During the Year 98-99 the year	Depreciation		Net Block	
			Written Back during	Total Dep. Upto 31.3.99	As at 31.03.99	As at 31.03.98
-	-	-	-	-	5928071.86	5928071.86
4.75	52049.13	15778.00	-	67827.13	273469.17	289247.17
4.75	83129.50	13755.00	-	96884.50	197014.72	210769.72
6.33	57994.75	27643.00	-	85637.75	531879.73	559522.73
4.75	281630.52	89944.00	-	371574.52	6040867.04	6130811.04
1.63	524286.03	34234.00	-	558520.03	1541702.97	1575936.97
9.5	13289.00	15947.00	-	29236.00	138628.25	154575.25
	1012378.93	197301.00	-	1209679.93	14651633.74	14848934.74
6.33	11045.92	2702.00	-	13747.92	28943.08	31645.08
4.75	3093.00	260.00	-	3353.00	2119.30	2379.30
	14138.92	2962.00	-	17100.92	31062.38	34024.38



**DETAILS OF INVESTMENT OF CORPUS FUND LIFE MEMBERSHIP FUND
AND ASSOCIATE MEMBERSHIP FUND AS ON 31.3.99**

Deposit With	FDR No.	Date	Amount	Interest	Due on	Periodicity of Payment of Intt.
CORPUS FUND						
SAIL, New Delhi	3106986	29/3/97	600000.00	15%	29/3/2000	Monthly
SAIL, New Delhi	3107308	6/4/97	1100000.00	15%	6/4/2000	Monthly
NTPC, New Delhi	98400672	7/4/97	1600000.00	14%	6/4/2000	Monthly
BOB, Gurgaon	663519	19/3/99	1000000.00	11%	19/3/2002	Maturity
			<u>4300000.00</u>			
LIFE MEMBERSHIP FUND						
SAIL, New Delhi	297140	18/5/96	300000.00	14%	18/5/1999	Quarterly
SAIL, New Delhi	320106	21/9/97	700000.00	13.50%	21/9/2000	Quarterly
NTPC, New Delhi	98400807	22/9/97	800000.00	14%	21/9/2000	Monthly
NTPC, New Delhi	97400625	18/5/96	300000.00	14%	17/5/1999	Monthly
SBI Gurgaon	581947	16/1/99	500000.00	11.50%	16/1/2002	Maturity
			<u>2600000.00</u>			
ASSOCIATE MEMBERSHIP FUND						
NTPC, New Delhi	98400807	22/9/97	10000.00	14%	21/9/2000	Monthly
NTPC, New Delhi	98315664	16/3/98	10000.00	11%	15/3/2001	Quarterly
			<u>20000.00</u>			



DETAILS OF LIFE MEMBERSHIP FUND ACCOUNT AS ON 31.3.99

Date of Receipt	Name of the Organisation	Amount (Rs.)
9.2.94	United Phosphorus Limited, Bombay	1500000.00
6.5.96	Gharda Chemicals Limited, Bombay	600000.00
11.1.99	E.I.D. Perry India Limited, Madras	500000.00
		<u>2600000.00</u>

DETAILS OF ASSOCIATE MEMBERSHIP FUND ACCOUNT AS ON 31.3.99

Date of Receipt	Name of the Organisation	Amount (Rs.)
25.8.94	Agrosynth Chemicals, Bangalore	10000.00
28.2.95	Pest Control of India Limited	10000.00
		<u>20000.00</u>



DETAILS OF PRIOR PERIOD EXPENSES

PARTICULARS	Amount (Rs.)
Purchase of Hose Pipe	2582.05
R&M - Photocopier	1551.50
Legal & Professional Charges	9500.00
Medical Expenses	2585.00
Postage	2200.00
Air Fare CWC	50808.50
Canteen Subsidy	19405.20
Travelling Expenses	1600.00
	<u>90232.25</u>

DETAILS OF PRIOR PERIOD INCOME

PARTICULARS	Amount (Rs.)
Interest Income	7140.00
Testing Charges for 1997-98	83750.00
	<u>90890.00</u>





NOTES ON ACCOUNTS FOR THE YEAR ENDING 31.03.1999

1. (a) During the year Grant-in-Aid amounting to Rs. 3 crores was received from Govt. of India for construction of New R&D Laboratory Building which has been credited to Capital Account.
(b) Total Grant received from Govt. of India for Upgradation of Analytical Laboratory for CWC is Rs. 58 lakhs in 1995-96 and Rs. 15 lakhs in 1997-98. Out of which Assets valuing to Rs. 58 lakhs have been purchased during the year.
2. (a) Assets valuing Rs. 55,638.44 transferred by HIL (R&D) during 1997-98 have not been accounted for in the books due to non handing over/taking over of the same.
(b) Physical verification of the assets transferred by HIL (R&D) amounting to Rs. 54,590.00 during 1995-96 is pending.
3. (a) As per the prevailing practice in the previous years, the expenses have been booked on the basis of apportionment by HIL (R&D). The bifurcation of expenses allocated during the year is as under :

Expenses of Employees working 100% for IPFT	Rs. 14,22,185.84
Expenses of Employees working 50% for IPFT (28 employees)	Rs. 25,89,722.25

Out of the total expenses of Rs. 25,89,722.25 allocated for employees working 50% for IPFT, expenses amounting to Rs. 8,77,253.12 (for 12 employees) have not been responded to in our account with HIL (R&D).

(b) Out of the total expenses Rs. 3,94,368.23 allocated by HIL (R&D), for RENPAP, Rs. 19,201.03 have not been responded in our account with HIL (R&D).
4. Claim submitted by M/s Jeet Enterprises on account of final payment on Hostel Building is pending for verification. However, provision for Rs. 4,87,710.00 has been made and charged to Capital work in progress.
5. The provision for gratuity for IPFT employees has not been made on actuarial basis. No provision has been made for gratuity for employees of HIL (R&D) due to non receipt of the allocation. The expenses of such gratuity is booked only at the time of actual payment.



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 as at 31st March, 1999 and the Income & Expenditure Accounts for the year ended on that date annexed thereto and report that :-

1. Building expenses amounting to Rs. 21,00,223/- incurred by PDC prior to inception of IPFT has been capitalised. However, building expenses incurred by IPFT amounting to Rs. 59,28,071.86 up to 31st March, 1999 have been classified as Capital Work in Progress, pending receipt of completion certificate.
2. The land on which the Hostel Building is being constructed, belongs to Hindustan Insecticides Limited. No lease agreement of the same in favour of Institute of Pesticide Formulation Technology has been executed. The legal implications of transfer of the building have not been ascertained and no provision for any liability on this account has been created.
3. The difference in the balance of HIL due to non incorporation of certain expenses by Institute of Pesticide Formulation Technology is subject to confirmation by HIL.

Subject to the forgoing and in our opinion and to the best of our information and according to the explanations given to us the said Balance Sheet and Income and Expenditure Statement read together present a true and fair view.

- I In the case of Balance Sheet of the Statement of society's affairs as at 31st March, 99.
- II In the case of Income and Expenditure Statement of the excess of Expenditure Over Income of the Society for the year ended on 31st March, 1999.

FOR GULSHAN VINEET & ASSOCIATES
CHARTERED ACCOUNTANTS

Place : New Delhi
Date : 9th August, 1999

Sd/-
Gulshan Jhurani
Partner



REPLY TO AUDIT POINTS

Audit Point

Reply

1. Building Expenses amounting to Rs. 21,00,223.00 incurred by PDC prior to inception of IPFT has been capitalised. However, building expenses incurred by IPFT amounting to Rs. 59,28,071.86 up to 31st March, 1999 have been classified as Capital Work in Progress, pending receipt of completion certificate.

The HUDA Authorities have been approached for the Transfer of land in the name of IPFT on which the Hostel Building has been constructed. The transfer of the land in favour of IPFT is being pursued with HUDA and as soon as the permission is obtained, the completion certificate would be available and building will be capitalised.
2. The land on which the Hostel Building is being constructed belongs to Hindustan Insecticides Ltd. No lease agreement of the same in favour of Institute of Pesticide Formulation Technology has been executed. The legal implications of transfer of the building have not been ascertained and no provision for any liability on this Account has been created.

CMD HIL, through his letter No. CMD/IPFT/65 dated August 30, 1996 has confirmed demarcation of 17 acres of land in the drawing which includes the land on which the Hostel Building has been constructed. HIL has written a letter to HUDA authorities in Gurgaon for transferring the title of the land in the name of IPFT and matter is being actively pursued with the HUDA authorities.
3. The difference in the balance of Hindustan Insecticides Ltd., due to non incorporation of certain expenses by Institute of Pesticide Formulation Technology is subject to confirmation by Hindustan Insecticides Ltd.

This matter is being taken up with the HIL for finalisation.