

7TH ANNUAL REPORT 1997-98



INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY

Registered Under Societies Act XXI (Registration No. S-21944/1991)

Sector 20, Udyog Vihar, Gurgaon - 122 016 (Haryana)

INTRODUCTION

The Institute of Pesticide Formulation Technology (IPFT) has completed its 7th year of operation. The contribution of the Institute with regard to the development and promotion of safer, eco and environment friendly pesticide formulations which has been widely acknowledged within the country as well as in the Asia-Pacific region. The rapport being developed by the Institute with the pesticide industries of the country clearly promises the success of establishing such Institute by the Government of India with the initial assistance provided by the UNDP/UNIDO

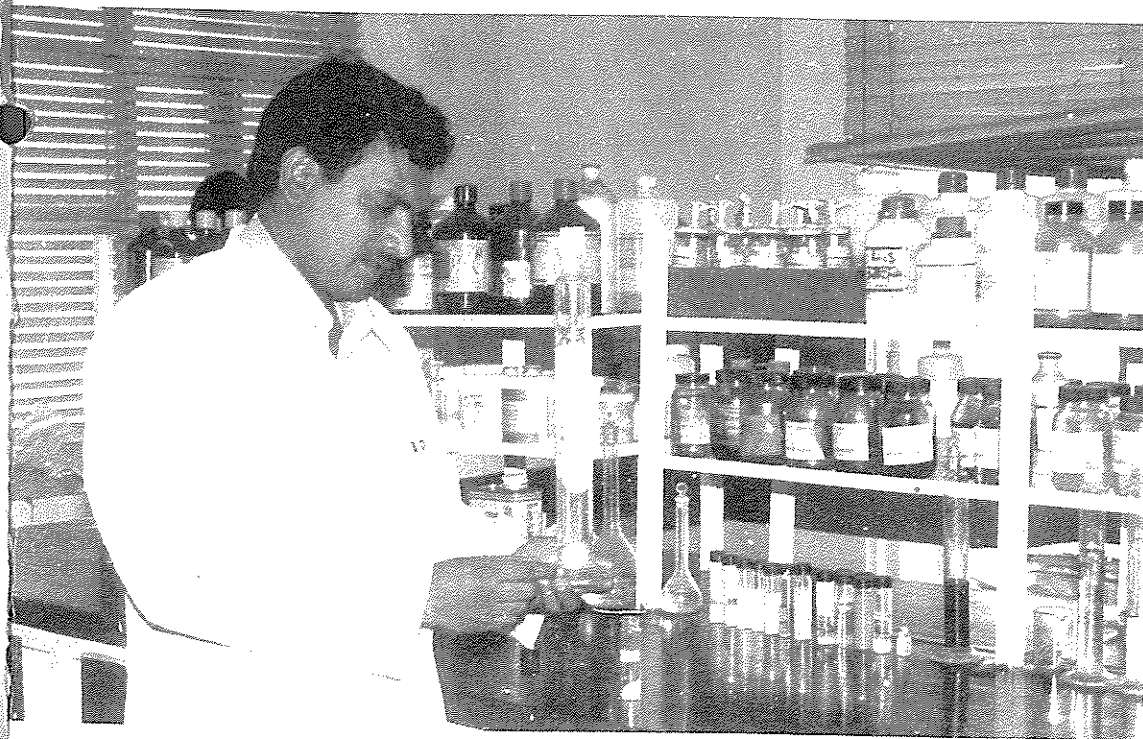
During the past seven years of the Institute as a society, (a non-profit making organisation), appreciable progress has been made and the services have been well received by the industry. The confidence shown in the activities of the Institute by the industry has resulted in increasing utilisation of the facilities of the Institute in the development and manufacture of user and environment friendly pesticide formulations. The progress of the Institute can be gauged by the increasing number of projects being sponsored by the industry in the fields of formulation development, manufacture, quality control, safety, packaging and study of bioefficacy of pesticides.

The Institute is recognised by the Department of Scientific and Industrial Research, Ministry of Science and Technology and Central Insecticides Board/Registration Committee, Ministry of Agriculture. Regional Network on Safe Pesticides Production and Information for Asia and the Pacific (RENPAF), a programme of UNIDO/UNDP has assigned it the role of technical coordinator unit on pesticide formulation technology and quality control.

ACTIVITIES DURING THE YEAR UNDER REPORT

Pesticide Formulation

Development and transfer of technology for user and environment friendly pesticide formulations to the Indian pesticide industry is one of the main aims of the Institute. The important new generation formulations in focus are suspension concentrates, concentrated emulsions, water dispersible granules, microemulsion and micro-encapsulated suspensions.



FORMULATION LABORATORY

The major advantages of these formulations vis-a-vis the conventional formulations like dusts, wettable powders and emulsifiable concentrates are:-

- improved efficacy and reduction in the usage of active ingredient
- more safety to the user and environment
- minimum use of toxic, flammable and non bio-degradable solvents

Inhouse expertise and infrastructure have been acquired for the development of most of the newer and conventional types of pesticides formulations. The facilities of pesticide formulation development laboratory include small media wet grinding mill, spray granulator, extruder, laser based particle size analyser, surface and interfacial tensio meters and instruments for rheological measurements.



SPRAY GRANULATOR

Details of the studies undertaken by the formulation laboratory during the year 1997-98 are as follows

Sponsored Projects

During the year 1997-98 the four projects were sponsored by M/s. United Phosphorus Limited and on by M/s. Excel Industries Limited.

			<u>Status</u>
1.	Endosulfan 35 SC	Excel	Phase I completed
2.	Sulphur 52 SC	UPL	Phase I completed
3.	Carbendazim 85 WG	UPL	Phase I completed
4.	Cypermethrin 40 WG	UPL	Ready for Phase I demonstration
5.	Diuron 80 WG	UPL	Exploratory studies completed

Developmental Studies

Exploratory studies completed for Mancozeb 75 WG, Methyl Parathion 25 CS and Quinalphos 20 EW.

Processing - Job Works : In addition to the developmental studies, laboratory processing facilities for wet milling were extended to Rhone Poulanc.

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

Projects Anticipated : M/s. United Phosphorus wants to sponsor about eight projects mainly based on water dispersible granules and suspension concentrate formulation technologies, of which four have already been undertaken in the year under review. M/s. Atul Ltd. wants to sponsor a project for water soluble granules of 2,4-D.

Analytical Facilities

Analytical Services are being offered to the Indian pesticide industries and the Bureau of Indian Standards (BIS) for the quality control and quality assurance of 150 pesticides and their formulations. Facilities of analytical laboratory include state of art analytical equipments like gas chromatograph coupled with mass spectrophotometric detector, gas chromatograph, high performance liquid chromatograph, super critical fluid chromatograph, infra-red spectrophotometer, fourier transform infra-red spectrophotometer and high performance thin layer chromatograph.

The laboratory is providing pesticide analytical services, method development, method validation and verification of impurity profile of technical pesticide and their formulations to the pesticide industry and BIS.

The Analytical laboratory has analysed 350 pesticide samples of different parties including BIS.

The detail of the studies undertaken by the analytical laboratory during the year 1997-98 are as follows:

Method Development

- (i) The Institute has developed HPLC method for estimating the active ingredient content of Triazophos.
- (ii) A Gas Chromatographic method for active ingredient analysis of Ethion has also been developed.

Collaborative Studies

1. Collaborative International Pesticide Analytical Council Limited (CIPAC) Collaborative Studies : The collaborative studies under CIPAC for active ingredients analysis of alpha-cypermethrin have been carried out.
 2. GTZ Collaborative Studies : A collaborative study for the analysis of Azadirachtin content in Neem seed kernels is in progress.
- BIS Collaborative Study : A collaborative Study with Central Insecticides Laboratory/Registration Committee and BIS for the HPLC method for azadirachtin content in commercial formulations of neem is being worked out.

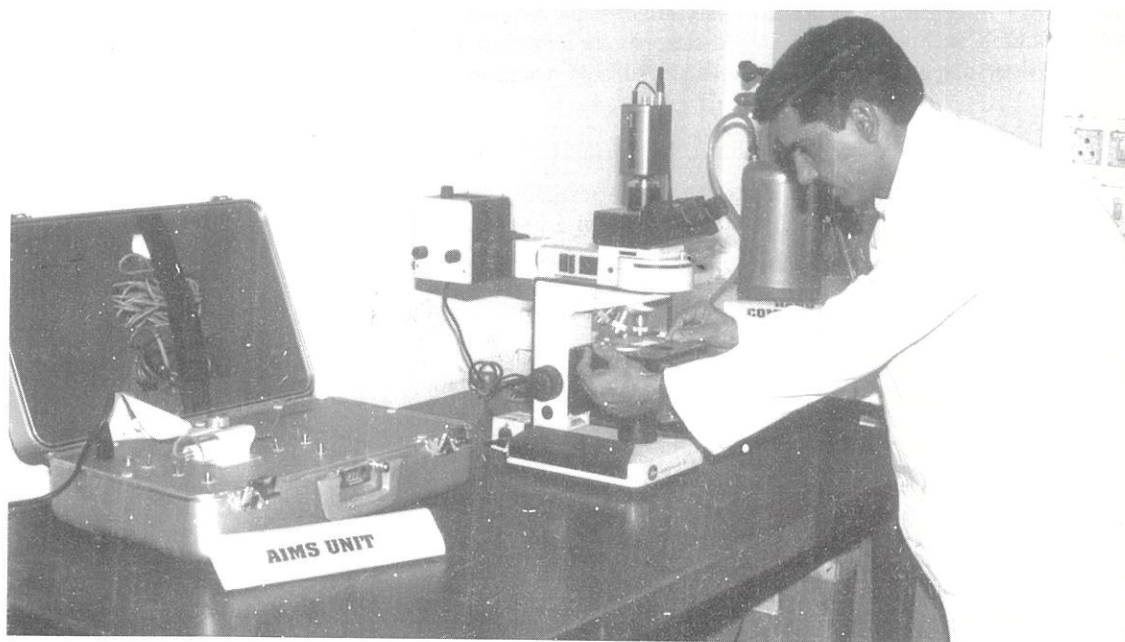
Projects Anticipated

The following projects are anticipated for the year 1998-99.

- i) Sample Analysis : About 350 samples of pesticides from Bureau of Indian Standards and the pesticide industry.
- ii) Establishment of Chemical equivalence : From the pesticide industry.
- iii) Shelf-life Study : Cypermethrin and Fenvalerate formulations with Central Insecticides Laboratory, Faridabad.
- iv) Impurity profile analysis : From M/s. Excel Industries
- v) Method Development : From Bureau of Indian Standards
- vi) Chemical Weapons Convention (CWC) : Participated in the inspection along with CWC inspectors for CWC chemicals.

Bio-Science Laboratory

The Institute has a well equipped bio-sciences laboratory for undertaking biological evaluation of pesticide and their formulations. The facilities available include microjet/microdoser applicator, Quantimet image analyser, AIMS Droplet Measurement and Analysis Device, Kearns and March Knockdown chamber, seed treatment unit, etc.



AIMS UNIT

The Institute also has well equipped facilities for field trials on agricultural crops. The services offered by the bio-sciences laboratory include data generation of pesticide formulations as per CIB protocol through bio-assay, bio-efficacy, phytotoxicity evaluation, compatibility analysis and resistance assessment. The unit also conducts regular training programmes/ workshops on pesticide registration and regulations for pesticide industries.

The studies completed/being carried out are summarised below:

Sponsored Projects:

- i) Bio-efficacy and phytotoxicity of Chlorpyrifos 50 WP and Endosulfan 50 WP Formulations:

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 during 1994-95. Field trials were conducted for two years on two crops with chlorpyrifos and endosulfan formulations. The work has been completed and the data has been compiled and the final report has been compiled for submission.

- ii) *Bio-efficacy Studies of Household Formulations:*

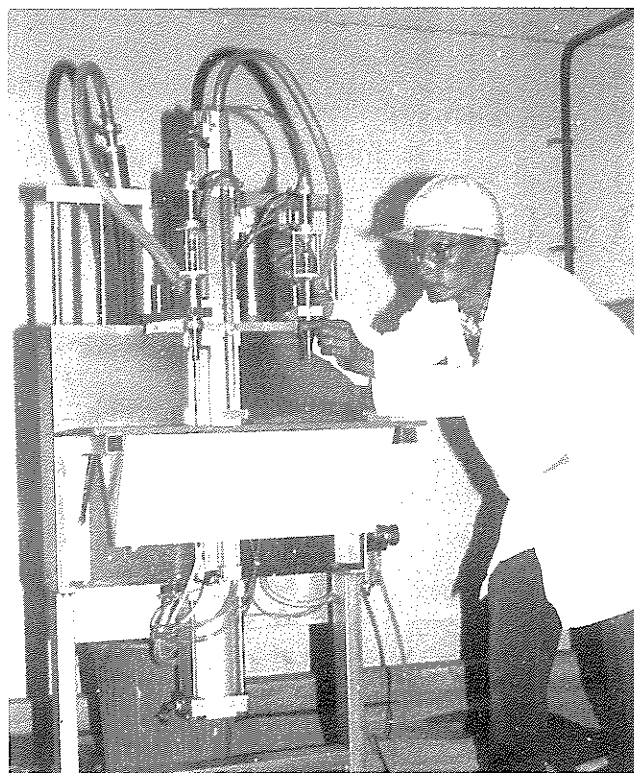
The project on bio-efficacy studies of household formulations against three insect species viz. mosquito, house fly and cockroaches was sponsored by M/s. Excel Industries Limited, Mumbai during 1995-96. The bio-assay studies through lab trials are progressing satisfactorily.

- iii) *Workshop on Pesticide Registration & Regulations*

The unit has conducted a Workshop on Pesticide Registration & Regulations for Indian Pesticide Industries in December, 1997 in which 9 participants participated.

Pilot Plant

With the development of newer, user and environment friendly formulations for which technologies have been supplied by the Institute, the industry is now coming forward for semi-commercial development-cum-production of these safer formulation using the Pilot Plant facilities of the Institute. The industry has taken keen interest in the facilities installed in the Pilot Plant and large number of enquiries to use these facilities are forthcoming. The State of art equipments for new formulations are in demand and the Institute at times had to stagger for the leasing of these equipment to the industry.



AUTO FILLING MACHINE

The studies completed/being carried out in the Pilot Plant are summarised below:

- a) Second phase job Work of semi-commercial development of Captan Water Dispersible granules was carried for M/s. Rallis India who had got the formulation development work done in IPFT laboratories.
- b) Job Work for processing special type of filler was carried out for M/s. Ranbaxy India Limited by using Fluid Energy Mill System.
- c) In-house Formulation Developments Work undertaken during the year are as follows:

Various Pilot Plant equipments were used by formulation development laboratory for in house formulation development work. The equipments used were Lodge Mixer, Ribbon Blender, Fluid Energy Mill etc.

Jobs Work Anticipated

- i) Production of Suspension concentrate formulations from M/s. United Phosphorus Limited, Mumbai.
- ii) Water Dispersible Granule formulation from M/s. Sulphur Mills Limited, Mumbai, M/s. United Phosphorus Limited (UPL), Mumbai & M/s Rallis India Limited, Mumbai.

- iii) Suspension concentrate formulations of various products from M/s. UPL, Mumbai.
- iv) Semi-commercial development of other formulations from M/s. UPL, Mumbai.

International and National Contacts

In addition to the various programmes conducted, a number of national and international delegates have visited the Institute to apprise themselves of the facilities available at the Institute for exploring the possibility of collaborative work in different areas of pesticide formulation development.

Noteworthy visits have been made by Mr. Frank P. Brosas, Plant Manager-Director & Industrial Coordinator, M/s. Rhone-Poulenc, Surabaya, Indonesia and Mr. Abu Bakar Tambi, R&D Manager, M/s. DowElanco Asia Pacific Sdn. Bhd., Malaysia. Dr. Bhushan Mandava, UNIDO consultant, also visited the Institute on evaluation mission. There has been business enquiries and mutual interactions with Mr. Husnu Yetkin, Kimyagerler Zirai of M/s. Mucadele Ilaclari A.S. Istanbul. Dr. Jochen Vida, Advisor Hazardous Waste Management working with National Productivity Council on Indo-German Cooperation Project (GTZ) visited the Institute for possible joint collaboration of testing of effluent samples and improvement on effluent treatment plant facilities for pesticide sector in the country.

INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY, GURGAON

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

IPFT continued to provide technical backup as Technical Coordinator Unit (TCU) on user and environment friendly pesticide formulation technology and quality control for the Regional Network on Safe Pesticides Production and Information for Asia and the Pacific (RENAPAP). Facilities of the TCU were extended to the member countries of RENAPAP for training, consultancy and trouble shooting. The Institute on behalf of Government of India is providing the secretarial assistance facilities and logistic support to the RENAPAP.



SECRETARY (CHEMICAL & PETROCHEMICAL) INAUGURATING THE HOSTEL

Management

The composition of the Governing Body of the Institute is given below:

1. Shri Shantanu Consul, Joint Secretary, Deptt. of Chemical & Petrochemicals.
2. Joint Secretary, Ministry of Agriculture.
3. Shri S. Kabilan, Financial Adviser, Ministry of Chemicals & Fertilizers.
4. Dr. K.V. Raghavan, Director, Indian Institute of Chemical Technology, Hyderabad.
5. Ms. Renu Sahni Dhar, Joint Secretary, Ministry of Health.
6. Shri Rajender Mohan, Chairman & Managing Director, Hindustan Insecticides Limited.
7. Director, Agriculture, Govt. of Haryana, Chandigarh.
8. President, Indian Crop Protection Association.
9. Secretary (Industries) Government of Haryana, Chandigarh.

10. Mr. Rajju shroff, Managing Director, United Phosphorus Ltd., Mumbai.
11. Dr. K.H. Gharda, Managing Director, Gharda Chemicals Ltd., Mumbai.
12. Director, IPFT and Ex-Office Member Secretary.
13. Dr. S.P. Dhua, Part-time Chairman.

ACCOUNTS AND AUDIT

INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY, GURGAON

BALANCE SHEET

Figures for 1996-97

Figures for 1997-98

IPFT	RENPAF	TOTAL	HEAD OF ACCOUNT	IPFT	RENPAF	TOTAL
LIABILITIES						
-	-	-	Capital Account	9901074.82		
-	-	-	Add. grant in aid	11000000.00		
-	-	-		20901074.82		
-	-	-	Less Excess of Expn. over income	2026914.97	18874159.85	18874159.85
2850227.32	-75103.79	2775123.53	Researve & Surplus	190950.44		
7050847.50	266054.23	7316901.73	Add Excess of Expn. over Income	-561710.20	-370759.76	-370759.76
4300000.00	-	4300000.00	Corpus Fund	4300000.00		4300000.00
2120000.00	-	2120000.00	Membership fund A/c.	2120000.00		2120000.00
Current Liabilities & Provision						
365391.50	-	365391.50	Provision for Gratuity	418844.50		418844.50
5993.00	-	5993.00	Provision for Bonus	5993.00		5993.00
902451.75	-	902451.75	Provision for Depreciation	1026517.85		1026517.85
587153.93	-	587153.93	Expenses payable	635726.09		635726.09
-	-	-	Staff Advance	0.00		0.00
276.90	-	276.90	TDS	137.90		137.90
691440.00	-	691440.00	Amount payable to UNDP	691440.00		691440.00
435525.39	-	435525.39	Amount payable to HIL(HO)	116439.64		116439.64
4178188.60	-	4178188.60	Amount payable to HIL(R&D)	4409740.79		4409740.79
3700.00	-	3700.00	Amount received from parties	8950.00		8950.00
			Amount received against			
			Bio-efficacy Project			
			Advance fees recieved against			0.00
			CWC Inspection			0.00
5800000.00	-	5800000.00	Advance received against CWC project	5800000.00		5800000.00
34149.00	-	34149.00	Amount payable to employees	0.00		0.00
142787.14	-	142787.14	IPFT		444293.06	444293.06
			Advance against project	153000.00		153000.00
29468132.03	190950.44	29659082.47		38560949.62	73533.30	38634482.92

Auditor's Report

In terms of our Separate report of even date

-sd-
(N.K. Jain)
ACC

- sd -
for Gulshan Vineet & Associates
Chartered Accountants

- sd -

Place : New Delhi
Date: 03th September, 1998

GULSHAN JHURANI
(Partner)

INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY, GURGAON

AS ON 31-03-1998

Figures for 1996-97

Figures for 1997-98

IPFT	RENAP	TOTAL	HEAD OF ACCOUNT	IPFT	RENAP	TOTAL
ASSETS			Fixed Assets (Sch. A)			
3825778.41		3825778.41	Capital Work in progress	3829153.41		3829153.41
2100223.00		2100223.00	Building	2100223.00		2100223.00
109192.62		109192.62	Plant & Machinery	275119.22		275119.22
5472.30	5472.30	10944.60	Typewriter		5472.30	5472.30
318257.52	42691.00	360948.52	Furniture & Fixture	318257.52	42691.00	360948.52
303824.00		303824.00	Office Equipment	309296.30		309296.30
			Vehicle	167864.25		167864.25
562362.56		562362.56	Laboratory Equipment	562362.56		562362.56
			Investments (Sch.B)			
4300000.00		4300000.00	Cor. Fund Inv. A/c.	4300000.00		4300000.00
2120000.00		2120000.00	Membership Fund Invest. A/c.	2120000.00		2120000.00
			Current Assets			
348469.31		348469.31	SBI New Delhi Current A/c.	102360.57		102360.57
1250027.28		1250027.28	SBI Dundahera Current A/c.	221469.04		221469.04
9644.58		9644.58	Cash in Hand	6387.74		6387.74
13381882.00		13381882.00	SBI TDR	16683872.00		16683872.00
			Cheques in Hand	6000000.00		6000000.00
			Advances			
166678.55		166678.55	Staff, Medical & others	33729.45	285.00	34014.45
21000.00		21000.00	Festival Advances to Staff	8000.00	500.00	8500.00
			Amount Recoverable			
200630.00		200630.00	Advance to Parties	35474.00		35474.00
3074.40		3074.40	LTC Advance			
166710.00		166710.00	Testing charges	334480.00		334480.00
148514.00		148514.00	Interest receivable	149712.00		149712.00
1391.50		1391.50	Prepaid Expenses	1087.00		1087.00
125000.00	142787.14	267787.14	Amount receivable from Parties	557808.50	24585.00	582393.50
			RENAP	444293.06		444293.06
29468132.03	190950.44	29659082.47		38560949.62	73533.30	38634482.92

Sd/-
Dr. D. Sengupta
Director

INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY, GURGAON

INCOME & EXPENDITURE

Figures for 1996-97			EXPENDITURE	Figures for 1997-98		
IPFT	RENPAF	TOTAL	HEAD OF ACCOUNT	IPFT	RENPAF	TOTAL
3293801.45	599942.40	3893743.85	Salaries & Wages	3247363.24	689745.40	3937108.64
290114.33	9669.56	299783.89	Payment against revision of Grades	0.00	0.00	0.00
239704.00	38672.00	278376.00	Institute Contribution to PF	271057.00	26341.00	297398.00
16136.00	2505.00	18641.00	Admn. Charges on PF	17711.00	0.00	17711.00
9297.00	981.00	10278.00	DLI Charges on PF	10409.00	0.00	10409.00
78.50	-	78.50	Inst's Contribution to Wel. Fund	0.00	0.00	0.00
5993.00	-	5993.00	Bonus	0.00	0.00	0.00
3855124.28	651769.96	4506894.24		3546540.24	716086.40	4262626.64
92172.51	8035.20	100207.71	Staff Welfare Expenses	83340.22	4912.65	88252.87
54398.00	13328.00	67726.00	Transport Subsidy	53365.94	0.00	53365.94
59197.80	11225.60	70423.40	LTC	61978.20	10297.00	72275.20
354082.73	41624.71	395707.44	Medical Expenditure	294590.61	22707.10	317297.71
42330.00	2053.00	44383.00	Gratuity	51264.00	2189.00	53453.00
100008.80	11118.00	111126.80	Leave Encashment	51146.01	6986.90	58132.91
94956.14	13418.85	108374.99	Canteen Subsidy	61370.08	14019.10	75389.18
5100.00	-	5100.00	Washing Allowance	5840.00	0.00	5340.00
-	2161.26	2161.26	Contribution to ESI	0.00	10365.90	10365.90
802245.98	102964.62	905210.60		662395.06	71477.65	733872.71
-	-	-	Expenses on PMC Meeting	0.00	85374.02	85374.02
75404.65	5049.30	80453.95	Travelling Expenses	106287.30	24110.65	130397.95
12396.95	741.50	13138.45	Entertainment Expenses	58999.85	2277.25	61277.10
9625.87	3486.75	13112.62	Miscellaneous Expenses	5133.70	3876.00	9009.70
63738.37	545.40	64283.77	Repair & Maintenance	84738.86	272.70	85011.56
32466.86	-	32466.86	Laboratory Expenses	46883.47	0.00	46883.47
16156.37	-	16156.37	Chemicals	0.00	0.00	0.00
44033.28	3925.00	47958.28	Postage, Telegram & Telephones	30832.38	5653.00	36485.38
-	-	-	Expenses on Bio-Science Test	0.00	0.00	0.00
27279.60	238179.60	265459.20	Rent, Rates & Taxes	22179.60	22179.60	44359.20
1685.00	-	1685.00	Insurance	7985.50	0.00	7985.50
208721.76	6076.50	214798.26	Electric Charges Incl. Diesel	208177.55	5589.50	213767.05
36668.63	76413.95	113082.58	Printing & Stationary & Other Supply	53580.03	27426.35	81006.38
21909.90	33858.03	55767.93	Vehicle Maintenance	35787.92	15166.66	50954.58
120241.15	-	120241.15	Security Charges	167685.79	0.00	167685.79
75.00	-	75.00	Staff Training Expenses	27326.00	0.00	27326.00
3065.00	-	3065.00	Subscription & Membership Fees	207.50	0.00	207.50
2283.38	-	2283.38	Newspaper and periodicals	2404.37	0.00	2404.37
3150.00	-	3150.00	Bank Charges	1166.00	0.00	1166.00
682.50	-	682.50	Cartage & Cooliagē	327.50	0.00	327.50
4250.00	1750.00	6000.00	Legal Expenses	3000.00	0.00	3000.00
5000.00	-	5000.00	Audit Fees	5500.00	0.00	5500.00
3500.00	-	3500.00	Remuneration to Auditors (other jobs)	2000.00	0.00	2000.00
4560.00	-	4560.00	TA to Auditors	0.00	0.00	0.00
186041.83	3382.31	189424.14	Depreciation	121104.10	2962.00	124066.10
1299.00	-	1299.00	Expenses on CWC	0.00	0.00	0.00
-	-	-	Consultancy Charges	18371.00	0.00	18371.00
36726.00	-	36726.00	Recruitment expenses	14150.50	0.00	14150.50
17283.14	2977.85	20260.99	Debit relating to earlier years	-	-	-
-	-	-	Seminar & Workshop Expenses	0.00	77480.42	77480.42
-	-	-	Less Income	0.00	0.00	0.00
13560.07	-	13560.07	Expenses on ETP	0.00	0.00	0.00
-	-	-	Sample Clearance Charges	0.00	0.00	0.00
0.00	0.00	0.00	Honorarium	17000.00	0.00	17000.00
7050847.50	266054.23	7316901.73	Excess of Income over Expenditure	-	-	-
12660012.07	1397175.00	14057187.07		5249764.22	1059932.20	6309696.42
-	-	-	Excess of Expenditure over Income	2031608.97	559932.20	2591541.17
-	-	-	Brought down	-	-	-
-	-	-	Debit relating to earlier years	50544.00	1778.00	52322.00
				2082152.97	561710.20	2643863.17

Sd/-
(N.K. Jain)
ACC

INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY, GURGAON

ACCOUNT FOR THE YEAR ENDING 31-03-1998

Figures for 1996-97			INCOME		Figures for 1997-98		
IPFT	RENPAF	TOTAL	HEAD OF ACCOUNT	IPFT	RENPAF	TOTAL	
10000000.00	500000.00	10500000.00	Grant in Aid	-	500000.00	500000.00	
-	-	-	Contribution from Industry	-	-	-	
-	-	-	Membership Fee Recd.	-	-	-	
-	-	-	Less: Transferred to	-	-	-	
			Membership fee fund account	-	-	-	
-	893475.00	893475.00	Received from UNDP	-	-	-	
698750.00	-	698750.00	Testing Charges Recd	-	-	-	
			Analytical Lab	496980.00	-	496980.00	
			Formulation Lab	148285.00	-	148285.00	
			Hiring Charges of Mixer Rec.		-	-	
230664.64	-	230664.64	Seminar & Workshop		-	-	
			Receipt	52000.00	-	-	
			Less Expenses	46807.75	5192.25	5192.25	
-	-	-	Income from Project	553000.00	-	553000.00	
			(Formulation Lab)		-	-	
78450.00		78450.00	Job work PP	178947.00	-	-	
			Less Expenses	10576.50	168370.50	168370.50	
			Training Fees Recd.		-	-	
			Indian		-	-	
			Foreign		-	-	
708822.50	-	708822.50	Interests on Deposits	825612.00	-	825612.00	
600797.00	-	600797.00	Income from Corpus Fund	701972.50	-	701972.50	
			Investment Account		-	-	
298205.00	-	298205.00	Income from MF Invst. A/c.	315777.00	-	315777.00	
			Reimbursement by Central Govt.	-	-	-	
			Expenses of CWC	-	-	-	
			CWC Inspection Fee Recd.	-	-	-	
			Subscription Recd.	-	-	-	
			Hire charges for private car Recd.	-	-	-	
			Sale of Publication	-	-	-	
41286.93	3700.00	44986.93	Credit relating to Earlier years.	-	-	-	
			Misc. Income		-	-	
2820.00	-	2820.00	Income from AMF Fund	2750.00	-	2750.00	
216.00	-	216.00	Hire & Rent	216.00	-	216.00	
			Excess of expenditure over income	2031608.97	559932.20	2591541.17	

12660012.07	1397175.00	14057187.07		5249764.22	1059932.20	6309696.42
			By Credits relating to earlier years	55238.00	0.00	55238.00
			By Excess of Expenditure over Income	2026914.97	561710.20	2588625.17
			carried forward to Balance Sheet	2082152.97	561710.20	2643863.17

Auditor's Report
In terms of our Separate report of even date
For Gulshan Vineet & Associates
Chartered Accountants

Sd/-
Gulshan Jhurani
(Partner)

Sd/-
Dr. D. Sengupta
(Director)

Place : New Delhi
Date: 03th September, 1998

INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY, GURGAON

SCHEDULE OF FIXED ASSETS

Particulars	Gross Block at cost			
	Cost as at 01/04/1997	Additions During the Year	Transfer During the Year	Total Cost as at 31-3-1998
IPFT				
Capital Work in Progress	3825778.41	3375.00	-	3829153.41
Office Equipment	309296.30	-	-	309296.30
Plant & Machinery	109192.62	165926.60	-	275119.22
Furniture & Fixtures	318257.52	-	-	318257.52
Laboratory Equipment	562362.56	-	-	562362.56
Building	2100223.00	-	-	2100223.00
Vehicle	0.00	167864.25	-	167864.25
	7225110.41	337165.85		7562276.26
RENPAF				
Furniture & Fixture	42691.00	-	-	42691.00
Typewriter	5472.30	-	-	5472.30
	<u>48163.30</u>			<u>48163.30</u>

INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY, GURGAON

AS ON 31-03-98

Rate of Depreciation in %	Depreciation				Net Block	
	Upto 31-03-1997	During the Year 97-98	Written back during the year	Total Dep. upto 31.3.98	As at 31-03-1998	As at 31-03-1997
-	0.00	-	-	0.00	3829153.41	3825778.41
4.75	37357.13	14692.00	-	52049.13	257247.17	271939.17
4.75	71098.40	12031.10	-	83129.50	191989.72	38094.22
6.33	37848.75	20146.00	-	57994.75	260262.77	280408.77
4.75	254918.52	26712.00	-	281630.52	280732.04	307444.04
1.63	490052.03	34234.00	-	524286.03	1575936.97	1610170.97
9.50	0.00	13289.00	-	13289.00	154575.25	0.00
	891274.83	121104.10		1012378.93	6549897.33	6333835.58
6.33	8343.92	2702.00	-	11045.92	31645.08	34347.08
4.75	2833.00	260.00	-	3093.00	2379.30	2639.30
	11176.92	2962.00		14138.92	34024.38	36986.38

INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY, GURGAON

DETAILS OF INVESTMENT OF CORPUS FUND, LIFE MEMBERSHIP FUND AND ASSOCIATE MEMBERSHIP FUND AS ON 31-3-1998

Deposit With	FDR No.	Date	Amount	Rate of Interest	Due on	Producticity of Payment of Intt.
CORPUS FUND						
SAIL, New Delhi	3106986	29/03/1997	600000.00	15%	29/03/2000	Monthly
SAIL, New Delhi	3107308	06/04/1997	1100000.00	15%	06/04/2000	Monthly
SAIL, New Delhi	2926889	01/03/1996	500000.00	15%	01/03/1999	Quarterly
N.T.P.C. New Delhi	98400672	07/04/1997	1600000.00	14%	06/04/2000	Monthly
N.T.P.C. New Delhi	96400613	04/03/1996	500000.00	14%	03/03/1999	Monthly
			<u>4300000.00</u>			
LIFE MEMBERSHIP FUND						
SAIL, New Delhi	297140	18/05/1996	300000.00	14%	18/05/1999	Quarterly
SAIL, New Delhi	320106	21/09/1997	700000.00	13.5%	21/09/2000	Quarterly
N.T.P.C. New Delhi	98400807	22/09/1997	800000.00	14%	21/09/2000	Monthly
N.T.P.C. New Delhi	97400625	18/05/1996	300000.00	14%	17/05/1999	Monthly
			<u>2100000.00</u>			
ASSOCIATE MEMBERSHIP FUND						
N.T.P.C. New Delhi	98400807	22/09/1997	10000.00	14%	21/09/2000	Monthly
N.T.P.C. New Delhi	98315664	16/03/1998	10000.00	11%	15/03/2001	Quarterly
			<u>20000.00</u>			

INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY, GURGAON

DETAILS OF LIFE MEMBERSHIP FUND ACCOUNT AS ON 31.3.98

of Receipt	Name of the Organisation	Amount (Rs.)
1994	Unite Phosphorus Limited, Bombay	1500000.00
1996	Gharda Chemicals Limited Bombay	600000.00

DETAILS OF ASSOCIATED MEMBERSHIP FUND ACCOUNT AS ON 31.3.98

of Receipt	Name of the Organisation	Amount (Rs.)
3-1994	Agrosynth Chemicals, Bangalore	10000.00
2-1995	Pest Control (I) Limited, Bombay	10000.00
		<u>20000.00</u>

INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY, GURGAON**DETAILS OF PRIOR PERIOD EXPENSES**

PARTICULARS	Amount (Rs.)
Conveyance for 1996-97	437.50
Arears of Annual Increment for 1996-97 paid to Dr. Pandey	4,386.00
Payment for Electrical material for 1996-97	405.50
Arears of DA given to Mr. N.K. Jain	561.00
Arears of Leave incashment paid to Dr. Pandey for 1996-97	1,218.00
Conveyance paid to Mr. R.N. Sarin for 1996-97	130.00
Amount paid to Mr. B.R. Sharma for 1996-97	323.00
TA paid to Auditors for 1996-97	3,965.00
Arears of CL paid to finance Officer	1,658.00
Institute Contribution of PF from Jan. 1992 to Dec. 1995	34,149.00
Administrative & DLI charges on PF Jan. 1992 to Dec. 1995	3,311.00
Total	50,544.00

INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY, GURGAON

DETAILS OF PRIOR PERIOD INCOME

PARTICULARS	Amount (Rs.)
Recovery of Excess Salary paid to Mr. B.R. Sharma (Ex Finance Officer)	3,410.00
By testing charges for 1995-96, 1996-97	45,375.00
Corpus Fund Interest for 1996-97	6,453.00
Total	<u>55,238.00</u>

SECHEDULE OF INCOME FROM MEMBERSHIP FUND INVESTMENT AS ON 31.03.98

PARTICULARS	Amount (Rs.)
Income from Life Membership Fund Investment	3,15,777.00
Income from Associate Membership Fund Investment	2,750.00
Income from Corpus Fund Investment	7,01,972.00

NOTES ON ACCOUNTS FOR THE YEAR ENDING 31.03.98

1. The PDC assets amounting to Rs. 25, 33, 257 were transferred in the name of IPFT in the previous years. These assets have been merged with the assets of IPFT in the relevant blocks in the current year.
2. The Depreciation on Assets has been provided as per Straight Line Method rates mentioned in Schedule XIV of the Companies ACT 1956. The Rates are as follows :

ASSET	1996-97	1997-98
Building	4%	1.63%
Plant & Machinery	15%	4.75%
Furn. & Fixtures	6%	6.33%
Office Equipment	10%	4.75%
Vehicle	-	9.5%

3. The Accounting policy regarding the treatment of Grant-in-Aid has been changed in the current year. In previous years, the grant was treated as income of the year of receipt. However, in the current year, the grant has been transferred to Capital Account and the operational surplus/deficit for the year has been adjusted from the same.
4. As per the list of assets provided by H.I.L. (R&D), assets worth Rs. 55,638.44 relating to the current year have not been accounted for in the books since the physical verification of the assets is still pending.
5. As per the prevailing practice in previous years, the expenses have been booked on the basis of apportionment by H.I.L. Out of the total expenses of Rs. 35, 98, 304.53 allocated to IPFT, the bifurcation of Expenses is as under :

Expenses of employees working Rs. 13,10,857.41
100% for IPFT

Expenses of employees working Rs. 22,87,447.12
50% for IPFT (29 employees)

Out of the Total expenses of Rs. 22,87,447.12 allocated for employees working 50% for IPFT, the following expenses of employees have not been responded in our account with H.I.L. as per the decision of the F&AC. :

Salary & Allowances Rs. 4,68, 560.56
(For 12 employees)
Provision for Gratuity Rs. 60,678.50
(For 29 employees)

From the expenses of Rs. 13,10,857.41 for employees working 100% for IPFT, the amount of provision for gratuity of Rs. 39,008 has not been responded in our account with H.I.L.

Out of total expenses of Rs. 3,35,844.93 allocated to RENPAP, Rs. 11,660.88 have not been responded in our account with H.I.L.

6. Claim submitted by M/s Jeet Enterprises on account of the final payment on Hostel Building pending verification of the bill. We have made a provision of Rs. 487710 and charged to Capital work in progress during 1995-96. Bills have not been verified till date.
7. As per list of the equipments provided by H.I.L. The equipments worth of Rs. 54,590/- have not been identified. However, these assets have been recorded in the books of accounts during 1995-96 although physical verification of these assets is still pending.
8. No. provision for rent payable to UNDP in the books of R.E.N.P.A.P. has been made during the year although the same had been made for earlier years.
9. Mercantile method of accounting has been following as per accounting policy except for gratuity.
10. The provision for gratuity for IPFT employees has not been made on actuarial basis. The provision for gratuity of employees of H.I.L. working for I.P.F.T has not been responded in our account with H.I.L because the expense of gratuity is booked only at the time when the amount of gratuity is actually paid.

INSTITUTE OF PESTICIDE FORMULATION TECHNOLOGY, GURGAON

GULSHAN VINEET & ASSOCIATES
CHARTERED ACCOUNTANTS

B-226A, Greater Kailash-I,
New Delhi - 110 048
Tel. : 6221048
Fax : 91-11-6221026
E-mail :
gulshan.gvasso@axcess.net.in

AUDITOR' 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 31.03.98 and the Income & Expenditure Account for the year ended on that date annexed thereto & report that :-

1. Figures of previous year have been regrouped & recast wherever necessary.
 2. Building Expenses amounting to Rs. 21,00,223/- incurred by PDC prior to inception of IPFT have been capitalised. However building expenses incurred by IPFT amounting to Rs. 38,29,153.41 up to 31.03.98 have been classified as Capital Work in Progress, pending receipt of completion certificate.
 3. 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.
 4. The difference in the balance of Hindustan Insecticides Ltd. due to non incorporation of certain expenses by Institute of Pesticides Formulation Technology is subject to confirmation by Hindustan Insecticides Ltd.
 5. Interest on fixed deposit has been taken on accrual basis.
 6. As a result of change in accounting policy on grant in aid, the Income has been understated to the extent of Rs. 1,10,00,000/- (One Crore Ten Lacs Only).
 7. There has been a change in rate of charging depreciation which have now been charged as per schedule XIV of the Companies Act. Compared to the old rate the expenditure has been understated to the extent of Rs. 120448.90 in the case of IPFT & Rs. 146 in the case of RENPAP.
 8. Fixed Assets register does not contain the details of asset transferred from PDC during 1995-96.
- Subject to the foregoing and in our opinion & to the best of our information and according to the explanations given to us the said Balance Sheet and Income & Expenditure statement read together present a true & fair view.
- i) In the case of the Balance sheet of the statement of society's affairs as at 31st March 1998.
 - ii) In the case of Income & Expenditure statement of the excess of Expenditure Over Income of the society for the year ended 31.03.98

FOR GULSHAN VINEET & ASSOCIATES
CHARTERED ACCOUNTANTS

Sd/-

GULSHAN JHURANMI
Partner

Place : New Delhi
Date : 03.09.98

REPLY TO AUDIT POINTS

Audit Point	Reply
1. Figures of previous year have been regrouped and recast wherever necessary.	Call for no comments
2. Building Expenses amounting to Rs. 21,00,223/- incurred by PDC prior to inception of IPFT have been capitalised. However, building expenses incurred by IPFT amounting to Rs. 38,29,153.41 upto 31-3-1998 have been classified as Capital Work in Progress, pending receipt of completion certificate.	The HUDA authorities have been approached for the transfer of the 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 the building will be capitalised.
3. The land on which the hostel building is being constructed belongs to Hindustan Insecticide 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.
4. 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.
5. Interest on fixed deposit has been taken on accrual basis.	Noted
6. As a result of change in accounting policy on grant in aid, the income has been understated to the extent of Rs. 1,10,00,000/- (One Crore Ten Lacs only)	This is as per the Government directives and calls for no comments
7. There has been a change in rates of charging depreciation which have now been charged as per Schedule XIV of the Companies, Act. Compared to the old rates the expenditure has been understated to the extent of Rs. 1,20,448.90 in the case of IPFT and Rs. 146/- in the case of RENPAP.	Noted
8. Fixed Assets register does not contain the details of asset transferred from PDC during 1995-96.	The details of the assets transferred during 1995-96 have since been obtained and are being included in the fixed assets register.