



**Pesticides and
Toxic Chemicals
Control Board**

ANNUAL REPORT
2006

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Executive Summary

Introduction

This Report chronicles the Board's activities for the year 2006. It highlights the accomplishments and discusses constraints of the Pesticides and Toxic Chemicals Control Board objectives and activities initiated for the year 2006.

The Report also embraces the Board's objectives and proposed achievements for 2007.

Administration

The staffing establishments for the Board were as follows:

- (i) Basudeo Dwarka, Registrar;
- (ii) Usha Homenauth, Administrative Secretary;
- (iii) Trecia David, Inspector;
- (iv) Vivek Joshi, Inspector;
- (v) Moonmattie Singh, Accountant;
- (vi) Lucina Singh, Inspector – Pursuing Master's Degree in Biology
- (vii) Ann Mohamed, Office Assistant / Data Input Clerk; and
- (viii) Lolita Abrams, Cleaner / Charwoman.

The Board hired an accountant during the year in keeping with the recommendations of the auditors for someone permanent to carry out the day to day record keeping accounting functions of the Board. Twenty-three persons applied for the position of the Accountant. The top-ranked candidate - Ms. M. Singh - was contracted in October.

Board of Directors

The Directorate of the Board appointed for 2005 continued throughout 2006 and constituted the following members:

1. Dr. Leslie Munroe – Chairman;
2. Mr. Ramesh Lilwah – Deputy Chairman - Representative Environmental Protection Agency;
3. Dr. Dindyal Permaul – Representative of the Ministry of Agriculture;
4. Dr. Rudolph Cummings – Representative of the Ministry of Health;
5. Mr. Kuldip Ragnauth – Representative of the Ministry of Agriculture;
6. Dr. Dalgleish Joseph – Member; and
7. Mr. Khame Sharma – Member.

Mr. Basudeo Dwarka, the Registrar of Pesticides and Toxic Chemicals functioned as Secretary of the Board as required by the Pesticides and Toxic Chemicals Control Act (No. 13 of 2000).

Meetings

Statutory meetings of the Board were held on the last Wednesday of every month and as required for technical meetings. There was no technical meeting during the period under review. There were ten statutory meetings for the year and the attendance by Directors at the meetings had been excellent throughout the year.

Signatories Of The Board

The signatories of the Board for the year under review were:

- (1) Chairman of the Board – Dr. Leslie Munroe;
- (2) Secretary of the Board – Mr. Basudeo Dwarka;
- (3) Deputy Chairman – Mr. Ramesh Lilwah; and
- (4) Dr. Dindyal Permaul.

The order of signatories of the Board remains the same – Chairman and/or Secretary with any other director.

Responsibility Of The Board

The Board is charged with the responsibility for making arrangements and providing facilities for controlling the manufacturing, importing, transporting, storing, selling, using and advertising of pesticides and toxic chemicals.

Objectives Of The Board

The foremost objective of the Board is to introduce a national pesticide and toxic chemical control scheme. In this respect consideration is given to the current and future ability of the country to operate the scheme with respect to the legal framework and the degree of support that the Government of Guyana is able to provide.

It is also the Board's objective to develop criteria and protocols that are effective and workable to achieve goals with the minimum dislocation of production or trade and to collaborate with the various stakeholders and other individuals to achieve economic goals.

The objectives of the Board for the year under review were as follows:

- (i) Establishment of a pesticides laboratory;
- (ii) Publishing a list of chemicals prohibited in Guyana;
- (iii) Publishing a list of chemicals registered for use in Guyana;
- (iv) Licensing of vendors of agrochemicals and toxic chemicals;
- (v) Training and certifying pesticides control operators; and
- (vi) Continued implementation of the Regulations.

The Pesticides and Toxic Chemicals Control Board's Achievements for the period under review were as follow:

1. Pesticides Registration

The Board received applications requesting registration of twenty-six pesticides from a total of five entities. These were made up of twelve insecticides, twelve herbicides, one fungicide and one rodenticide. The following is a summary of the registration requested:

- (a) **Syngenta** - registration requested of eight products;
- (b) **Biesterfeld** - request made for one product;
- (c) **Proyefa** - request made for the registration of one product;
- (d) **Insecticidas Internationales** - registration requested for eleven products; and
- (e) **F.C.T. Technologies (Americas) Inc** - requested the registration for five products.

Establishment	Trade Names	Classification
Syngenta	Engeo Gramoxone Super Touchdown IQ Klerat Wax Blocks Ridomil Gold Match 50 EC Krismat 75 WG Actellic 50 EC	Insecticide Herbicide Herbicide Rodenticide Fungicide Herbicide Insecticide Insecticide
Biesterfeld	2, 4-Dichlorophenoxyacetic Acid	Herbicide
Proyefa	Glifosan LS	Herbicide
Insecticidas Internationales	Danol 60 E Cyper 25 Propanol 360 EC Amidor Inimectin Aminex Inisan Torpedo Batazo Inithion Thionil	Insecticide Insecticide Herbicide Insecticide Insecticide Insecticide Herbicide Herbicide Insecticide Herbicide Insecticide Insecticide
F.C.T. Technologies (Americas) Inc	S-Metalochlor 960 EC Diuron 80 WDG Diuron 80 WP Terbutryn 500 FW Carbaryl 80 WP	Herbicide Herbicide Herbicide Herbicide Insecticide

Table 1 showing list of products submitted for registration

The list of the chemicals received by the Board since 2005 along with the companies seeking their registration is shown as **Appendix I**. There has not been any registration issued by the Board.

2. PESTICIDE LABORATORY

The plan of the laboratory, the invitation to tender and the bid document for the pesticide laboratory were completed and approved by the Inter-American Development Bank.

The invitation to tender for the construction of the pesticide laboratory was published in the local newspaper on the 26th March 2006. The bids were opened on the 2nd May 2006.



The contract for the construction of the pesticides laboratory was awarded to

Michael Seeram at a cost of seventeen million, three hundred and forty-one thousand five hundred and sixty-six dollars (\$ 17,341,566.00).

A sod-turning ceremony was held at the site, National Agricultural Research Institute (NARI) Compound, Mon Repos East Coast Demerara to signal the commencement of the construction of the laboratory on the 24th July at 13:00 hrs. The sod was turned by the Minister of Agriculture (ag) Honourable Harripersaud Nokta and Resident Representative of the Inter American Development Bank (IDB), Mr. Sergio Varas-Olea. The Minister gave the feature address at the ceremony.

Figure 1: Pesticide Laboratory under construction.
Ag the sod for the Pesticide Laboratory.

The laboratory building was completed in December 2006 at a final cost of seventeen million, five hundred and eighty-eight thousand dollars (\$ 17,588,000.00).

The list of equipment for the laboratory **APPENDIX II** was approved by the Inter-



Figure 3: Pesticide Laboratory Building Completed.

American Development Bank and the invitation to tender for the supply of these equipment was published in October and the bids were opened in December. The evaluation of the bids was not completed and no award was made for the supply of the equipment. This will be completed in 2007.

2. MEETINGS & TRAINING

2.1 Meetings

2.2 Training

2.3 Training Manual

The Board attended and participated in the following meeting for the period:

- i. Regional Induction Workshop on Reporting and Data Requirements for Countries that use or Potentially will Use DDT for Disease Vector Control - Bahia, Brazil, January 24 - 27 2006.**
- ii. Pre and Post Harvest Technology hosted by USAID and Guyana Marketing Corporation - February 11 2006.**
- iii. Pesticide Monitoring - the training was conducted so that participants were able to understand the use of the gas chromatograph for pesticide analysis.**

The Inspectors participated in the Guyana Rice Project Management Unit (GRPMU) training seminar in observance of Occupational Health and Safety Month. The trainings were held in Region 2, 3 and 6. The Inspectors also provided training to farmers under the Poor Rural Support Services Project (PRCSSP) and Partners of America in Region 2 and 3.

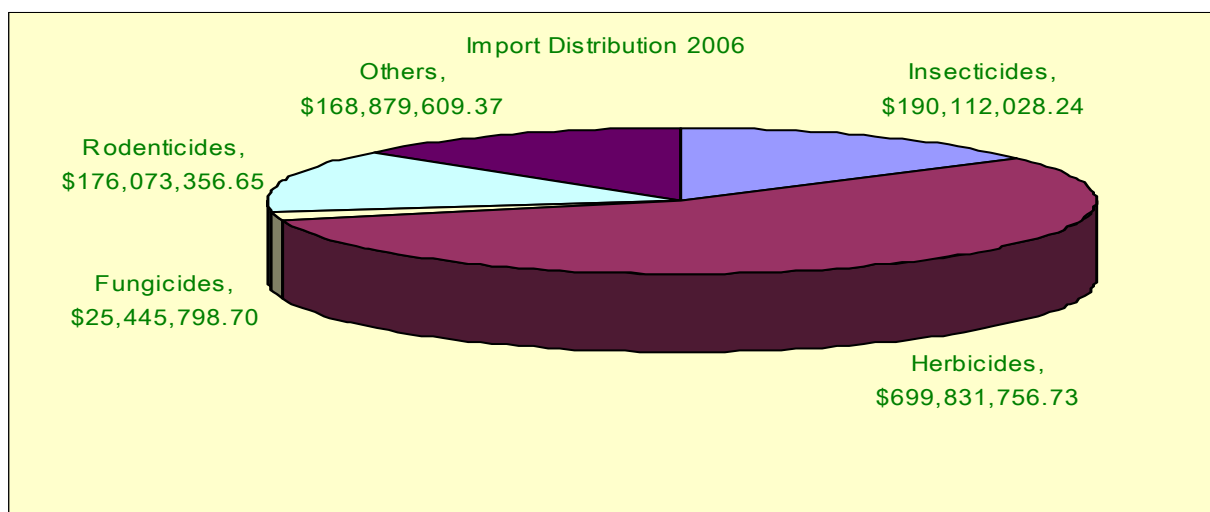
The Registrar attended and participated in a training programme in Pesticide Management and Pesticide Risk Reduction. This programme was in two phase with the first phase in Sweden in June and the second phase in Mexico in November. The programme provided training to developing countries to reduce the health and environmental risks associated with the use of pesticides. The training also provided for risk analysis and identification as well as reducing the use of hazardous chemicals in agriculture. The programme specifically examined systematic and analytical approach of the advantages and disadvantages of pesticides in different contexts such as society, environment, health and agriculture using the Swedish Model and the 'Substitution Principle' as against the 'Precautionary Principle' in pesticide registration and pesticide use determination.

The Inspectors attended a presentation of consultants under the Public Disclosure Program and State of the Environment - Report for the Demerara Watershed. The

presentation was about the consultants' findings to implement a data collecting system by the Environmental Protection Agency (EPA) to monitor the state of the environment.

The Board was also represented at the Government of Guyana (GOG) and the United Nations Development Programme (UNDP) Capacity Building for the Management of Natural Resources and the Environment Project. This seminar examined the various natural resources and environmental projects that were funded by the GOG and UNDP and executed by various local organisations.

3. PESTICIDES IMPORTATION



The list of chemicals imported for the year in review is shown as **Appendix III**. There were two hundred chemicals by Trade Names imported for the year with thirty-two (32) importers **Appendix IV**. The total imports (**Appendix V**) for the year was approximately one billion, two hundred and sixty million dollars. The largest category of chemical imported for the year was herbicides, responsible for six hundred and ninety-nine million dollars (\$ 699 M) or fifty-five per cent (55%) of the total imports.

This was followed by insecticides, fifteen percent (15%) and rodenticides, fourteen percent (14%).

For the year under review there were forty one insecticides imported with allethrin topping the list of imports followed by monocrotophos and cyfluthrin. Both allethrin and cyfluthrin are used for the control of household insects while monocrotophos is used for the control of some rice insect pests especially the padi bug (*Oebalus poecilus*).

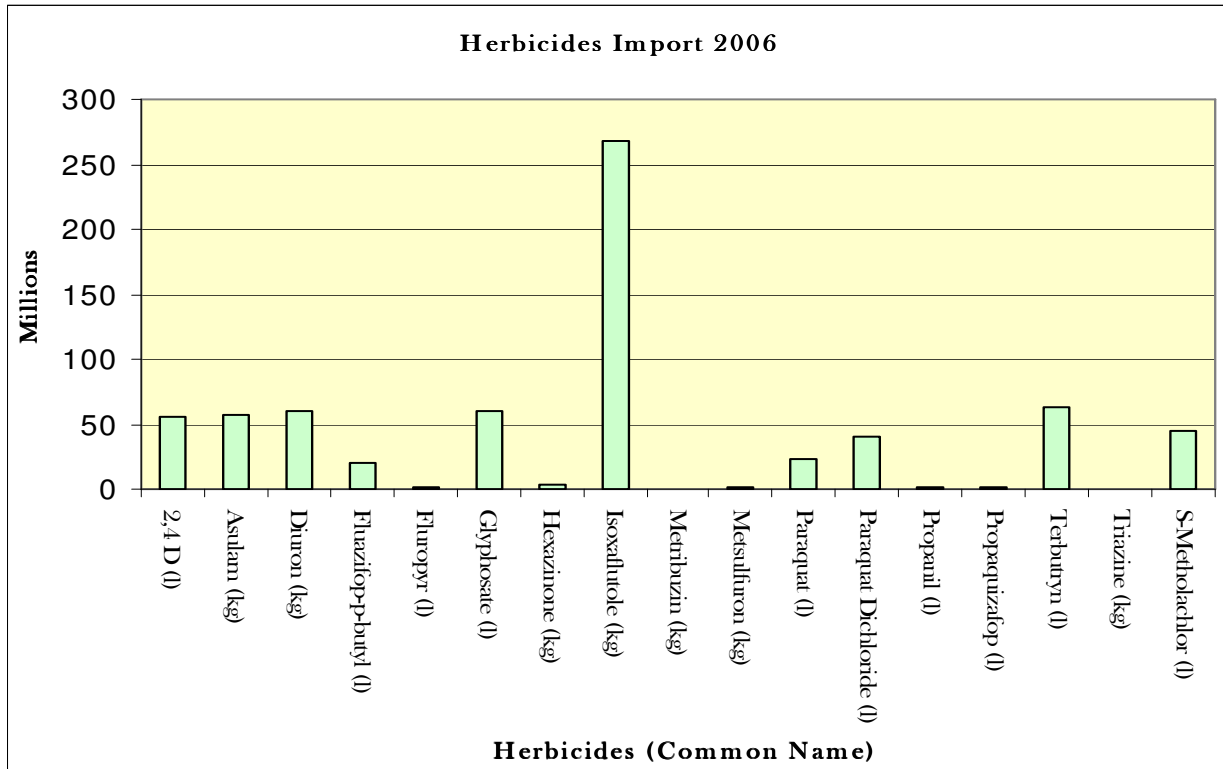


Figure 4: Herbicides Import 2006

The total imports of herbicide for the year was six hundred and ninety-nine million with isoxaflutole responsible for thirty-four percent (34%) of total herbicide importation followed by terbutryn and diuron with nine percent (9%) each.

Isoxaflutole, diuron and terbutryn are used mainly by the Guyana Sugar Corporation Incorporated (GuySuCo Inc) for pre and post emergent control of grasses and broadleaved weeds.

The total import of fungicides for the year was twenty-five million (25 M) with fentin acetate being the largest with eight million. This is chiefly used for the control of snails in the rice industry.

The total import of rodenticide for the year was one hundred and seventy-six million (176 M) with brodifacoum being the largest with one hundred and forty-five million (145 M). The largest user of rodenticide in Guyana is GuySuCo.

Imports for the year under review, classified as Others (toxic chemicals) are made up mostly of products such as disinfectants, chlorine used for the production of bleaches and mineral and white spirits used for paint production.

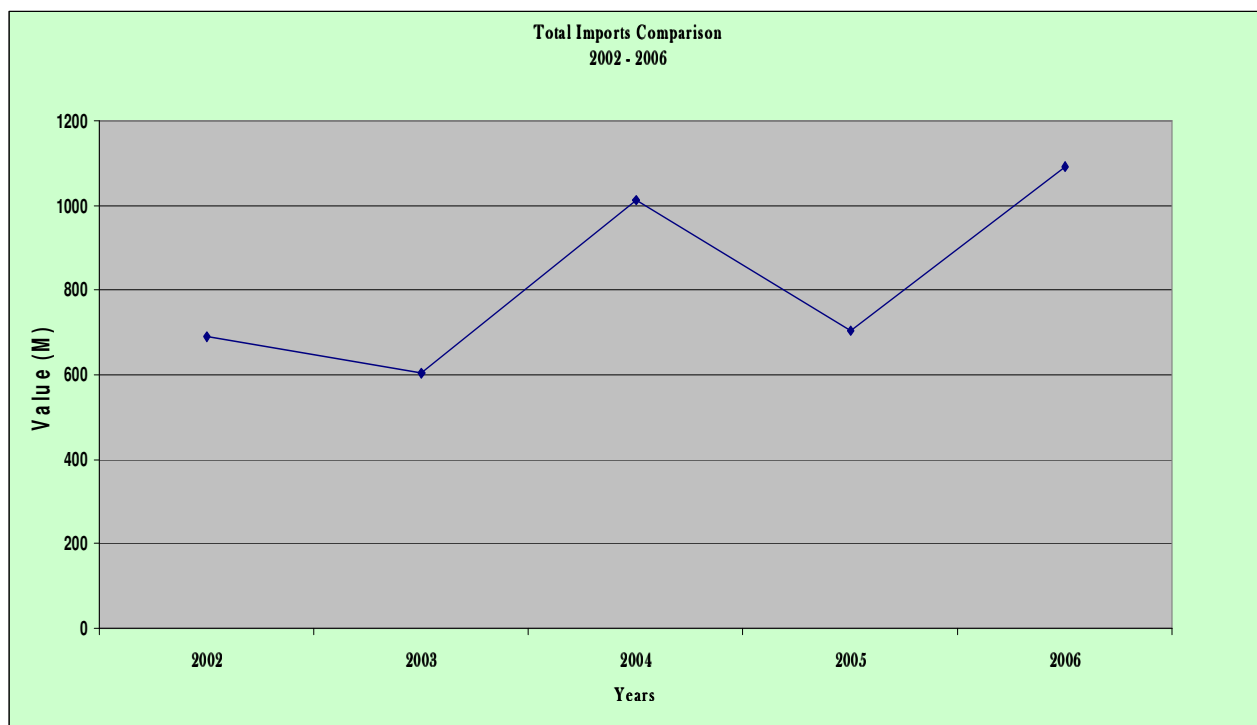


Figure 5: Imports Comparison 2002 - 2006 Total Value

A comparison of the data for the past five years - 2002 - 2006, have shown that there has been an increase in the value of importation through the years. The major category of pesticide imported for all the years was herbicides followed by insecticides.

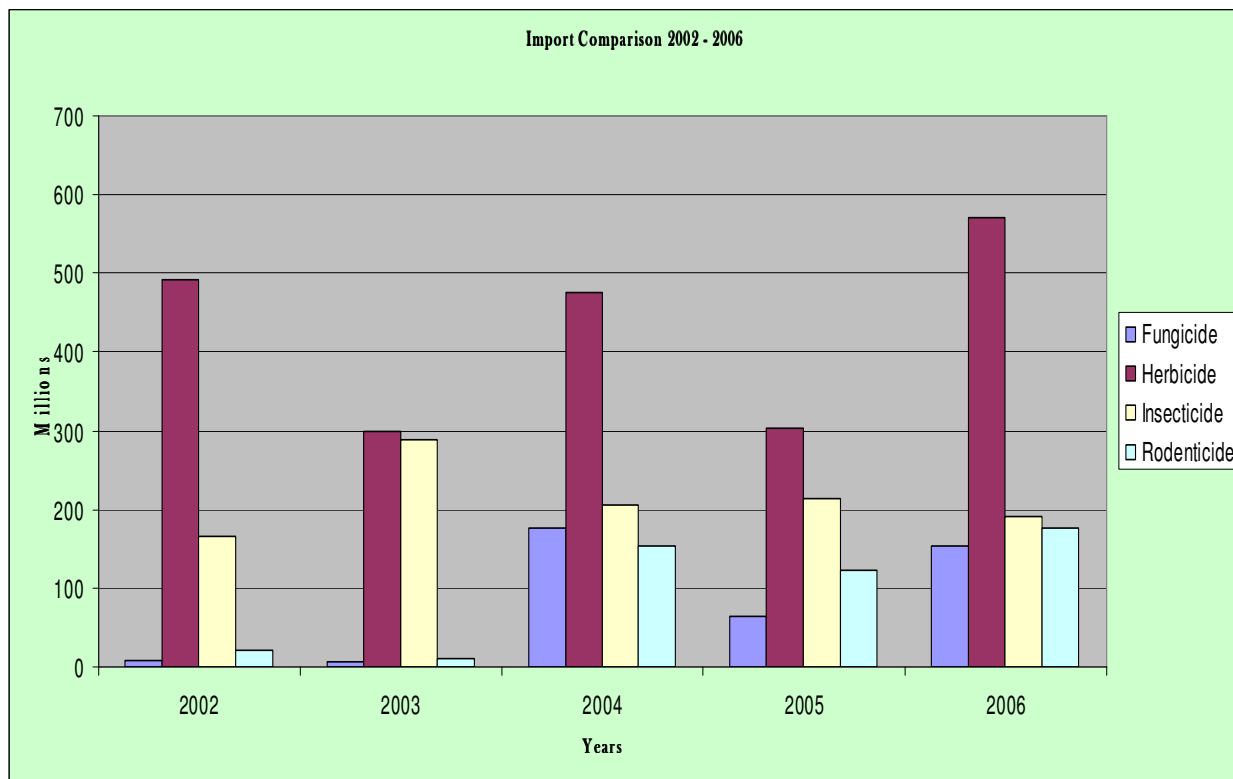


Figure 6: Import Comparison 2002 - 2006 by Category

A comparison of the last three years of importation have shown that monocrotophos remains the largest insecticide of for the period 2004 - 2006.

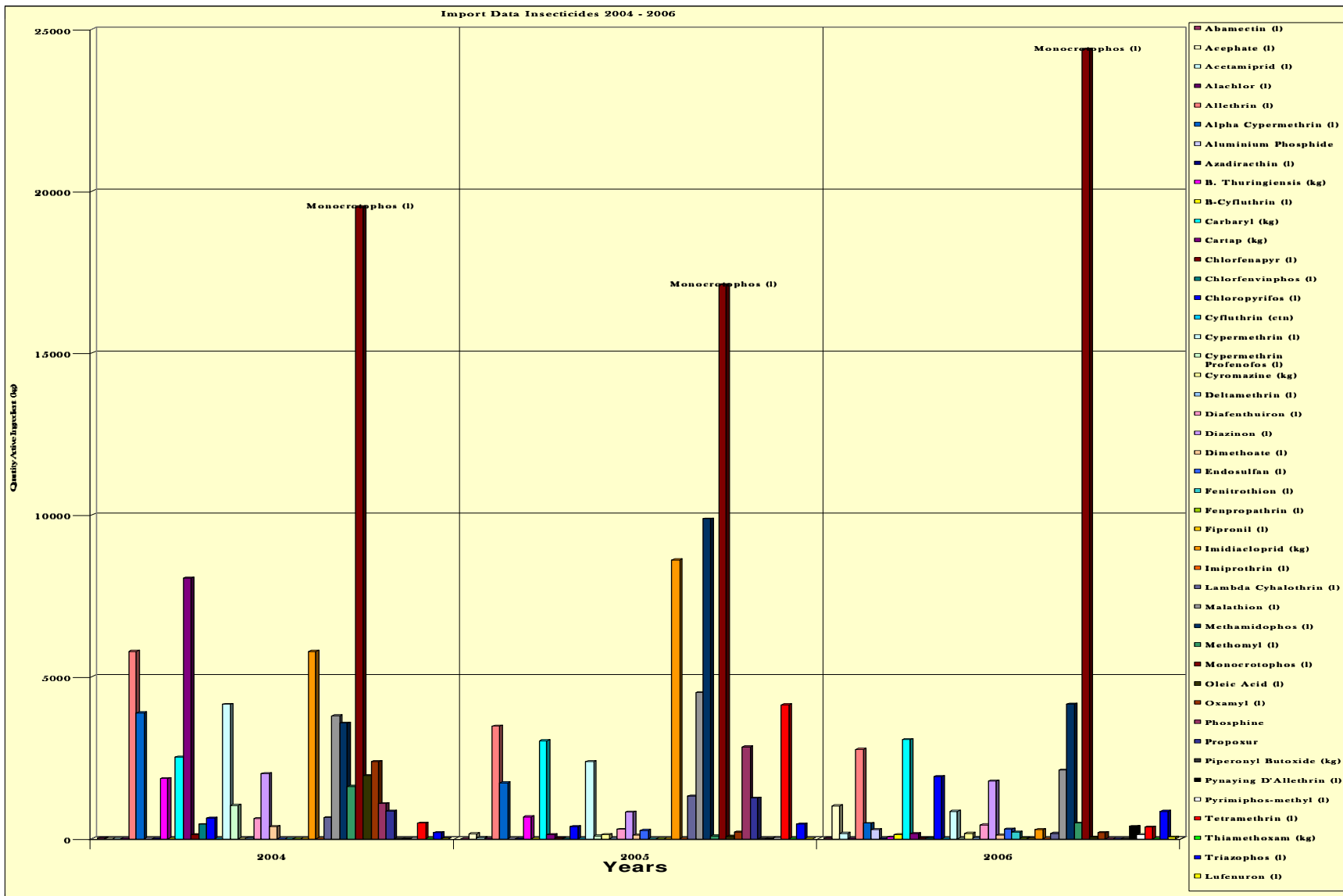


Figure 7: Insecticide Comparison by Active Ingredient 2004 - 2006

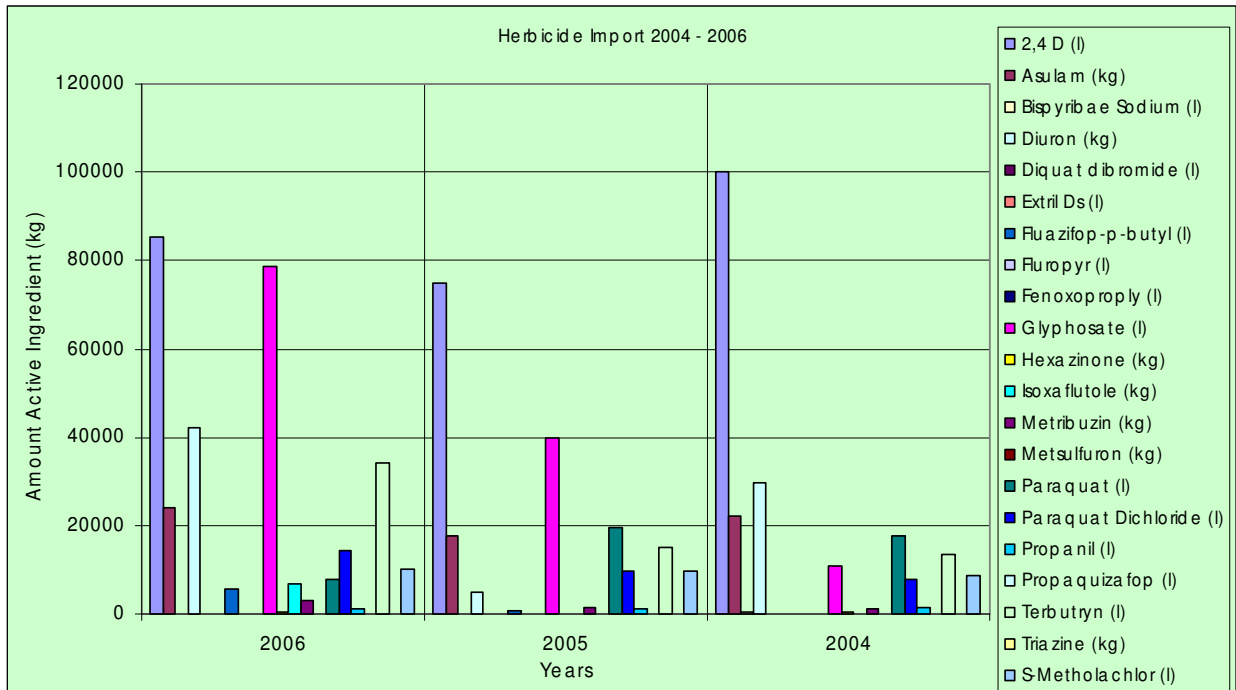


Figure 8: Herbicide Import Comparison by Active Ingredient 2004 - 2006

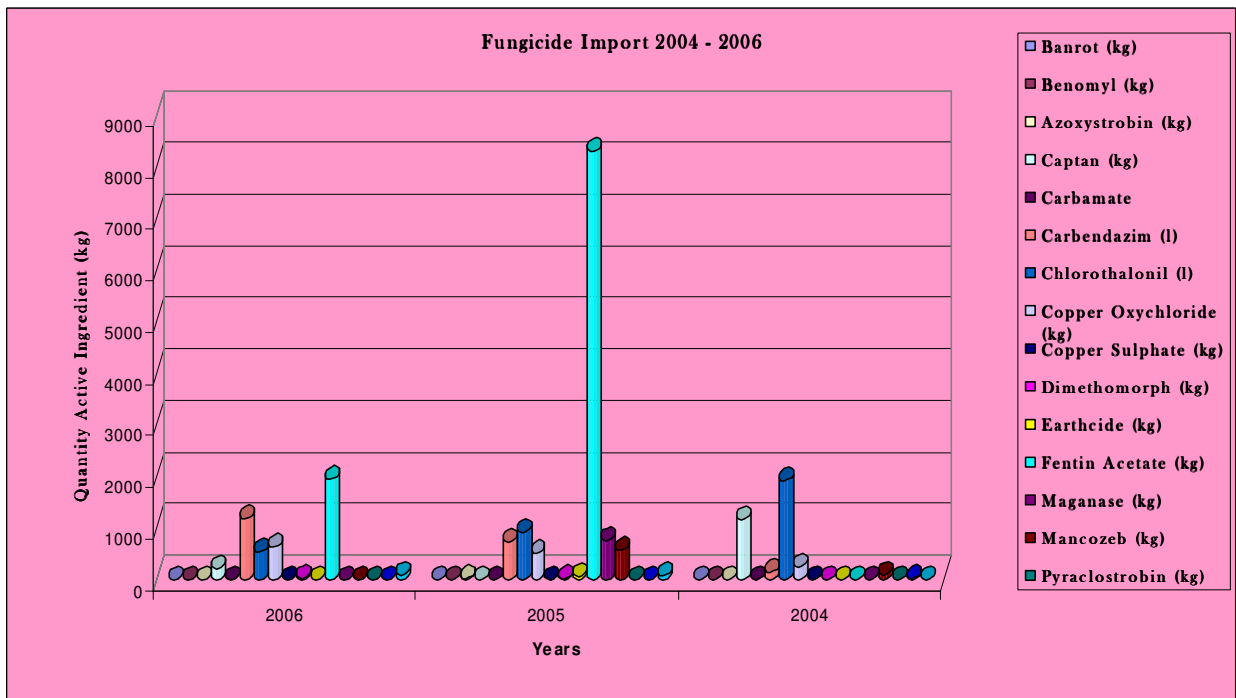


Figure 9: Fungicide Import Comparison by Active Ingredient 2004 - 2006

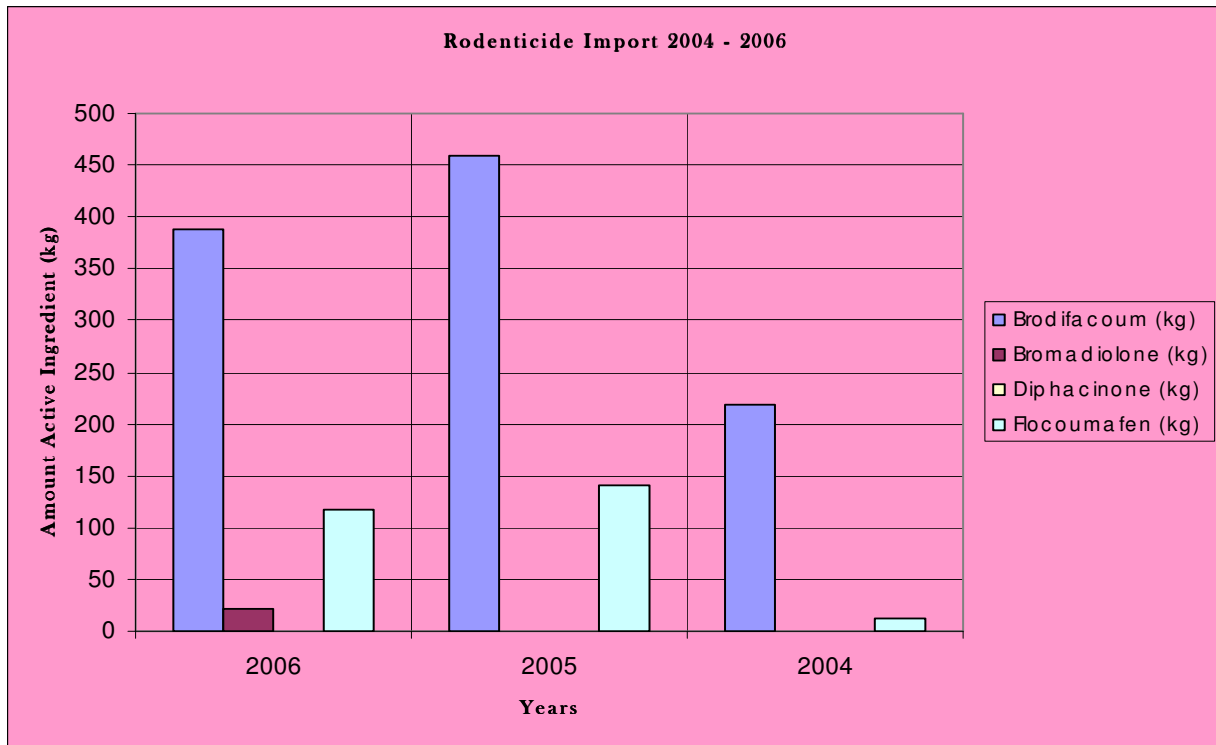


Figure 10: Rodenticide Import Comparison by Active Ingredient 2004 - 2006

Importing procedures was breached by FCT Technologies (Americas) for the products Glyphos-AG41 and Vape Aerosol from Jamaica. These products were initially refused entry into Guyana because the importer failed to submit any registration document for the importation of these products from Jamaica. However, after clarifications from the Pesticide Control Authority of Jamaica and the manufacturers about the standard of the product, an import licence was issued for these products along with a warning to the importer.

Some denial based on lack of registration documents or supportive information, incomplete application form and use of incorrect application form.

4. AGRICULTURAL DIVERSIFICATION PROGRAM

The Board contributed to the preparation of the program and budget of the Agricultural Diversification Program as required by the Ministry of Agriculture and the Inter American Development Bank.

5. VENDING AND ENFORCEMENT

The Board certified thirty-four vending premises for the period under review. The list of vendors is shown as **Appendix VI**. Inspection in Berbice led to the seizure of ten litres of Gramoxone from Sarvanand Pharmacy of Corriverton for displaying a pesticide for sale without a vending licence.

6. TRAINING MANUAL

A training programme was developed for the training of farmers, farm workers and vendors under the theme “Management and use of agrochemical in Agricultural Production”. This programme will be executed in 2007 but preparation commenced during the year. The programme required the development of a training manual for farmers and farm workers.

An artist, Mr. Barrington Braithwaite, was contracted to provide art work for the development of the manual. The manual is in the final stages of development after review of three drafts. The Guyana Rice Project Management Unit has agreed in principle to provide financial support for the printing of this manual

7. ACCOUNTS 2005

The Auditor General’s Office completed their examination of the Board’s financial statement for 2005 as required under Section 41 of the Pesticides and Toxic Chemicals Control Act and the Financial Management Act. The major recommendation in the report is the contracting of an accounts clerk to update the accounts in a timely manner.

The audited expenditure for the Board for 2005 was seventeen million, four hundred and sixty-three thousand, three hundred and nine dollars (\$ 17,463,309.00).

8. EXPENDITURE & ACCOUNTS 2006

The Board's proposed budget for 2006 was sixteen million, three hundred and sixteen thousand dollars (**Appendix VII**). The unqualified account for the year under review is shown as **Appendix VIII**. The accounts reflect an expenditure of twenty-three million, four hundred and fifty-eight thousand, eight hundred and fifty-nine dollars (\$ 23,458,859.00). The accounts represent a deficit of three million, nine hundred and fifty-three thousand five hundred and fifty-one dollars (\$ 3,953,551.00). These additional expenses were met from retained finances from the previous years. This over expenditure was mainly due to depreciation (\$ 1,189,986) and a number of essential procurement during the year such as projector, computers and printers (\$ 1,304,726) totaling two million, four hundred and ninety-four thousand seven hundred and twelve (\$ 2,494,712). The major expenditure for the period under review was salaries and wages followed by meeting and other events which include the cost for inspection of premises, training and awareness.

9. BUDGET 2007

The Proposed budget for the Board for 2007 reflects a total expenditure of thirty million, four hundred and fifty-five thousand seven hundred and forty dollars (\$ 30,455,740.00). (**Appendix IX**). This increase in cost is for the establishment and functioning of the pesticide laboratory in 2007.

10. PUBLIC AWARENESS

The Board participated in GuyExPo 2007 from 26-31 October under the theme "Increasing The Competitiveness Of Agricultural Exports Through Improved Pesticide Management". The Board also participated in Agricultural Month activities in October in Linden, Diamond, Essequibo and Berbice. World Food Day was celebrated on the

16th October under the theme where the Board was vibrant under the activities exhibiting under the theme “Investing in Agriculture for Food Security in Guyana.”



Figure 11: Pesticides Board Exhibit at GuyExPo

The Board requested media space for publishing articles on pesticides and pest management from the print media and was successful with the Guyana

Chronicle. The newspaper agreed to

publish the Board’s submission on Fridays. The first article was published on the 6th October 2006.

Development of “billboard type” messages for display in the main agricultural areas commenced and will continue in 2007.

11 WEBSITE DEVELOPMENT



Figure 12: An outline of the Board proposed webpage.

The Board has registered the website’s address <http://ptccb.org.gy>. The development of the website has commenced and it will be operational in 2007. The website construction was awarded to GuyEnterprise Limited, who is also be responsible for hosting the site.

12. AGRICULTURAL DATABASE

The Board agreed on the development of an agricultural database and the advertisement inviting individuals to construct the database was placed in the media.

The closing date for the receipt of application was the 27th November 2006. The database will contain the chemicals registered by the Board, the pests and the crops. The database is anticipated for use by farmers, vendors, students, extension agents and scientists. The database will be completed in 2007.

13. PROHIBITED PESTICIDES

The Order for the declaration of the list of prohibited chemicals was signed by the Minister of Agriculture and *Gazetted* on the 18th November 2006. There are no chemicals currently used in Guyana listed as prohibited. The list of chemicals is shown as **Appendix X**.

14. EXPERIMENTAL PESTICIDES

The Guyana Sugar Corporation Incorporated sought and received permission to import a rodenticide named RATTOFF containing zinc phosphide as the active ingredient. The product is manufactured in Australia and used in the sugar cane industry in that country for the control of rodent infestation. Before receiving permission Guysuco was requested to provide the Material Safety Data Sheet (MSDS) for RATTOFF.

15. SECTORAL COORDINATION

The Directors of the Board agreed that any committee formed under the Board will be task oriented, established on an ad hoc basis and will report directly to the Board.

16. ADVISORIES

The Board placed an advisory in the print media on the legitimate brands of mosquito coils used in Guyana on the request of Roma Manufacturing Company Limited. The company requested this publication stressing the unfair competition from illegal brands on the market such as Lion Brand and Goldeer Mosquito coils.

The publication of the advisory led to the importer of Goldeer Mosquito coils, Wahab's Trading Establishment contacting the Board to make arrangement for the registration of Goldeer coils. Wahab's Trading informed the Board that the Department of customs and Trade Administration release his shipment but failed to produce and documentation to confirm same.

17. ORGANISATIONAL CHART

The Organisational Chart of the Pesticides and Toxic Chemicals Control Board was developed and shown as **Appendix XI**. The organization of the Board contains four divisions: Licensing and Registration, Enforcement and Training, Administration and Analytical. Each division will be headed by senior personnel. The total staff under the Board will be twenty-three (23) persons headed by the Registrar.

18. INDUSTRIAL DEVELOPMENT

The Guyana Sugar Corporation has introduced a new requirement in keeping with the requirements of the Pesticides and Toxic Chemicals Control Regulation 2000 (No. 8 of 2000) whereby all suppliers of pesticides to the corporation must provide a letter from the Board stating that the pesticide supplied to the corporation is registered for use in Guyana. Approving and issuing of contract by the corporation is based on the submission of this letter.

19. REGULATORY DEVELOPMENTS

Amendments to the Pesticides and Toxic Chemicals Control Act to facilitate the Board's control of imports were resubmitted to the Minister of Agriculture, who approved of the submission. In light of the Minister's approval of Guyana's accession to the Rotterdam Convention, the Bill was developed and shown as **APPENDIX XII**.

This Bill - the Pesticides and Toxic Chemicals Control (Amendment) Bill seeks to amend the Pesticides and Toxic Chemicals Control Act (No. 13 of 2000) so as to provide

the Pesticides and Toxic Chemicals Control Board with the responsibility for making arrangements and providing facilities for controlling the export of pesticides and toxic chemicals.

The amendment also makes provision for all pesticides and toxic chemicals exported to be certified by the Board and that an application for such a licence may be made to the Board and should be accompanied by the prescribed licence fee.

It is finally proposed in this Bill to give the Minister the power to make regulations for carrying into effect its purposes.

These amendments will provide the basic requirement for Guyana to accede to the Rotterdam Convention and enable implementation of the obligations of the Rotterdam Convention on the Prior Informed Consent Procedure for certain hazardous chemicals and pesticides in international trade.

The amendments will allow the Designated National Authority - Pesticides and Toxic Chemicals Control Board - to request any person to give information where the Board believes on reasonable grounds that it is necessary to obtain the information to allow Guyana to comply with its obligations under the Convention.

Regulations were also developed to account for the changes in the Act (**Appendix XIII**).

20. INTERNATIONAL DEVELOPMENT

A proposal for Guyana accession to the Rotterdam Convention was developed and approved by the Minister of Agriculture. The proposal provided for the Pesticides and Toxic Chemicals Control Board becoming the National Authority for handling Guyana's obligations under the convention. The importance of the Convention to developing countries cannot be overly stressed since the Convention established a

first line of defense by giving importing countries the tools and information they need to identify potential hazards and exclude chemicals they cannot manage safely. If a country agrees to import chemicals, the Convention promotes their safe use through labeling standards, technical assistance, and other forms of support. It also ensures that exporters comply with the requirements.

21. FUNDING

The Government of Guyana is funding the current activities of the Board through subvention as reflected in the annual accounts.

22. PROPOSAL 2007

The proposed activities for the Board for 2007 include the following:

(a) Legal Jurisdiction

- (i) Parliamentary approval and assenting of the Pesticides and Toxic Chemicals (Amendment) Act (February 2007);
- (ii) Approval of the Amendment to the Pesticides and Toxic Chemicals Regulations (March 2007); and
- (iii) Guyana's accede to the Rotterdam Convention (April 2007).

(b) Public Relation and Awareness

- (iv) Completion of the Website (February 2007);
- (v) Observance of Pesticides Awareness Week in September 2007; and
- (vi) Printing and distribution of Quarterly Pesticides Newsletter.

(c) Analytical Framework

- (vii) Procurement of Equipment for the Laboratory (March 2007);

- (viii) Installation of Equipment (April 2007);
- (ix) Training on the major Laboratory Equipment (Gas Chromatograph-Mass Spectrometer) (April 2007);
- (x) Commence quality evaluation of pesticides imported in Guyana (May 2007);

(d) Enforcement

- (xi) Develop timeframe and audit of vending facilities to facilitate selling off of all pesticides not proposed for registration (February 2007);
- (xii) List of pesticides approved for use in Guyana published (April 2007); and
- (xiii) Evaluation of 75 pesticides registered for quality in Guyana (November 2007).

(e) Training

- (xiv) Printing of Training Manual and other associated training material;
- (xv) Completion of Database structure and testing of database (May 2007)
- (xvi) Insert data in database and distribution to vendors, schools and extension agents (October 2007);
- (xvii) Commencing training of farmers in Region 2, 3, 4, 5 and 6. Proposed to train approximately 100 farmers per region (Training to commence in February 2007 with completion by November 2007).

23. KEY ISSUES AND CHALLENGES

The key issue facing the Board continues to be the implementation of the Pesticides and Toxic Chemicals Regulations with the key challenge being monitoring of the regulations throughout Guyana where availability of financial resources could be a constraint since there is still no approval for the generating of fees by the Board. The Ministry of Agriculture would continue to fund the Board's activities through subvention currently and in the near future. This would be more difficult with the establishment of the pesticide laboratory and hiring of more staff. The cost

of evaluation of a chemical to the laboratory must be paid by the Board and these costs are not reflected in the budget.

24. FUTURE PLANS: 2007 ONWARDS

The Board future remains in establishing a comprehensive registration scheme and being able to provide the necessary infrastructure required for the establishment of appropriate educational, advisory, health-care and extension services for enabling and exercising adequate control over quality, sale and usage of pesticides. The establishment of the Pesticide Laboratory would enhance the Board's monitoring and enforcement capabilities..

25. CONCLUSION

In conclusion, the Board's objectives, achievements and proposed activities should be seen as an attempt to establish a comprehensive registration scheme and to provide the necessary infrastructures required for the establishment of appropriate educational, advisory, health-care and extension services for enabling and exercising adequate control over quality, sale and usage of pesticides while ensuring that the interest of end-users and importers' rights are well protected.

APPENDIX I

List of Pesticides submitted for Registration along with Applicant and Manufacturer

Name of Chemical	Applicant	Manufacturer
Terbutryn 500 SC	FCT Technologies	Drexel Chemical Company
Glyphosate 480 EC		
Dimethoate 40 EC		
Diuron 80 DF		
Malathion 57 EC		
Carbaryl 80 WP		
Diazinon 60 EC		
Ametryn 500 SC		
Ametryn + Atrazine 500		
Surf-AC 910		
Glyphosate 41% SL	FCT Technologies	Nanjing Chivalry Chemical Co
Brodifacoum 0.005 %		
Wax Block		
Brodifacoum Pellets; 0.005 %		
Methamidophos 60 % EC		
Imidacloprid 35 % SC		
Imidacloprid 70 % WS		
Carbendazim 500 g/l SC		
Hexaconazole 40 g/l SC		
Fentin Acetate 60 % WP		
Ethephon 480 g/l SL		
Metalaxy + Mancozeb 72 % WP		
Monocrotophos 60 % WSC		
2,4-D Amine 720 g/l SL.		
Diuron 80 WP		
Diuron 80 WDG		
Terbutryn 500		
Carbaryl 80 WP		
S-Metolachlor		
2,4-D Amine Salt 72 %	Agro-Care Chemicals Industries Limited	Agro-Care Chemicals Industries Limited
Abamectin 1.8 % EC		
Alphacypermethrin 5 % EC		
Aluminium Phosphide 57 %		
Imidacloprid 70 % WDG		
Imidacloprid 24 % SC		
Carbaryl 85 % WP		
Chlorpyrifos 48 % EC		
Diazinon 60 % EC		
Ethephon 40 % SL		
Lambda-cyhalothrin 5 % EC		
Methamidophos 60 % SL		
Monocrotophos 60 % WSC		
Paraquat 27.6 % SL		

Triazophos 40 % EC		
Control Flowable 500 GR	Caribbean Chemicals Limited	Not Stated
Rogor Blue 40 % EC		
Pirate 24		
Karmex 80% DF		
Velpar 75% DF		
Carbendazim 50 % SC		
Pronto 35 SC		
Banrot 40% WP		
Malathion 96% ULV		
Supona 20% EC		
Pronto 70 WDG		
Propanil 36%		
Lannate WP		
Bellis 38WG		
Herbadox 40 EC		
Arsenal 24 SL		
Kocide 101		
Sempra		
Mpede		
Cypro 440 EC		
Padan 50% SP		
Fendona SC		
Roundup EZ		
Broadtril EC		
Captan 50% WP		
Roundup Ultra		
Acrobat MZ		
Malathion 57%		
Azadirect		
Cloropyrifos 48% EC		
Mankocide DF		
Lannate LV		
Dipel DF		
Fastac 5% W/V EC		
Manzate 75 % DF		
Carzone 75% DF		
Rizolex 50% WP		
Caratrax 5 EC		
Cure 1.8 EC		
Admiral 10 EC		
Xenthari		
Storm 0.005 BB		
Caprid 20 SL		
Carminee 400 SC		
Chemquat Super		
Vydate L Blue		
2,4-D Amine	Agri Care	
Paraquat Dichloride		
Diuron 80 DF		
Diuron 80 WP		

Merlin	AINLIM	
Sevin		
Aminex		
Inisan		
Torpedo		
Batazo		
Inithion		
Cyper 25		
Thionil		
Inimectin		
Propanol		
Glifosan		
Amidor		
Danol		
Paraquat		
2,4-D Amine		
Alphacypermethrin 5 EC		
Agil		
Agree		
Engeo	Syngenta	Syngenta
Gramoxone Super		
Touchdown IQ		
Klerat Wax Blocks		
Ridomil Gold		
Match 50 EC		
Krismat 75 WG		
Actellic 50 EC		
2,4-D Acid	Biesterfeld	Biesterfeld
Glifosan LS	Proyefa	Proyefa
Danol 60 E	Insecticidas Internationales	Insecticidas Internationales
Cyper 25		
Propanol 360 EC		
Amidor		
Inimectin		
Aminex		
Inisan		
Torpedo		
Batazo		
Inithion		
Thionil		
S-Metalochlor 960 EC	F.C.T Technologies	
Diuron 80 WDG		
Diuron 80 WP		
Terbutryn 500 FW		
Carbaryl 80 WP		

APPENDIX II

List of equipment and Accessories for the Establishment of the Pesticides Laboratory

Item	Quantity
High Resolution Gas Chromatograph (HRGC)	1
Flame Ionization Detector (FID)	
Electron Capture Detector (ECD)	
Autosampler Tower	
Autosampler Tray Module	
Fumehoods - Mechanical	
60" by-pass hood	3
Exhaust fan (one hood capacity)	1
Exhaust fan (two hood capacity)	1
Air Conditioning - Mechanical	
36,000 BTU Unit	2
12,000 BTU Unit	1
Water System - Mechanical	
Water Distiller	1
De-ionizer/Organic Scavenger	1
Gas Systems - Mechanical	
Air Compressor	1
Hydrogen Generator	1
Miscellaneous Equipment	
Balance - Four Place (0.0001g)	1
Balance - Three Place (0.001 g)	1
Solid Phase Extractor Manifold (Column Format)	1
Solid Phase Extractor Manifold (Disk Format)	1
Solvent Reduction System (Rotovap)	1
Automatic Pipeter	2
Blender/Homogenizer	1
Centrifuge (12 - 60 mL capacity)	1
Dessicator	1
Muffle Furnace	1
Oven (50 to 180 C)	1
Recirculating Chiller (for Rotovap)	1
Solvent Blowdown System	1
Soxlet Extraction System	1
Stirplate (6 to 9 place)	1
Stirplate / Hotplate	1
Tumbler extractor (24 -250 mL capacity)	1
Ultra-sonic bath	1
Vacuum pump	1
Vortex Mixer	2
Work Stations	
Personal Computer	2
Peripherals	1
Cold/Frozen Storage	
21 cu ft Upright Freezer	1
16 cu ft Upright Refrigerator	1
Construction	
Building	

Benching / Cabinetry
Laboratory Furnishings
Electrical

Miscellaneous Items

Normative References

Glassware

Autosamplers Vials (1 ml)	1000
Beakers, glass (50 ml)	12
Beakers, glass (100 ml)	12
Beakers, glass (250 ml)	12
Beakers, glass (600 ml)	6
Beakers, glass (1000 ml)	6
Boiling flask (100 ml)	20
Boiling flask (250 ml)	20
Burette (0.1 graduation) (50 ml)	2
Centrifuge Tubes (50 ml)	24
Erlenmeyer Flask (125 ml)	12
Erlenmeyer Flask (250 ml)	12
Erlenmeyer Flask (500 ml)	6
Erlenmeyer Flask (1000 ml)	6
Erlenmeyer Flask, Vacuum (1000 ml)	2
Erlenmeyer Flask, Vacuum (500 ml)	2
Filtering Funnels (short stem)	12
Flasks, Volumetric (5 ml)	12
Flasks, Volumetric (10 ml)	12
Flasks, Volumetric (25 ml)	6
Flasks, Volumetric (50 ml)	6
Flasks, Volumetric (100 ml)	6
Flasks, Volumetric (250 ml)	6
Flasks, Volumetric (500 ml)	6
Flasks, Volumetric (1000 ml)	6
Glass Volumetric Syringes (0.025)	3
Glass Volumetric Syringes (0.05)	3
Glass Volumetric Syringes (0.1)	3
Glass Volumetric Syringes (0.25)	3
Glass Volumetric Syringes (1.0)	3
Graduated Centrifuge tubes (15 ml)	30
Graduated Cylinders (10 ml)	6
Graduated Cylinders (50 ml)	6
Graduated Cylinders (100 ml)	6
Graduated Cylinders (250 ml)	4
Graduated Cylinders (500 ml)	4
Graduated Cylinders (1000 ml)	2
Pipettes, Volumetric (5 ml)	12
Pipettes, Volumetric (10 ml)	12
Pipettes, Volumetric (250 ml)	12
Separatory Funnel (500 ml)	12
Separatory Funnel (1000 ml)	6
Separatory Funnel	6
Solvents	
Acetone	20 1
Acetonitrile	20 1
Chloroform	5 1
Dichloromethane	40 1

Diethyl Ether	5 l
Ethyl Acetate	20 l
Hexane	20 l
Iso-octane	5 l
Methanol	5 l
Toluene	10 l
Chemicals	
1-Imidazole	50 g
Ammonium Acetate	3 kg
Disodium Tetraborate (anhydrous)	500 g
Florisil (100/200 mesh)	10 kg
Glacial Acetic Acid	25 l
Hydrochloric Acid	10 l
Magnesium Sulphate (anhydrous)	10 kg
o-Phthalaldehyde	50 g
Phosphoric Acid	5 l
Silica Gel (70/230 mesh)	10 kg
Sodium Acetate	3 kg
Sodium Carbonate	3 kg
Sodium Hydroxide	10 kg
Sodium Sulphate (anhydrous)	20 kg
Sodium Sulphite	3 kg
Sulphuric Acid	20 l
Thioflour	150 g
Reagents	
Hydrolysis reagent	15 l
o-Phthalaldehyde Diluent	15 l
Miscellaneous Consumables	
Forceps	5
Autosampler Cap Crimper	2
Autosamplers Caps (1 ml)	1000
Buret Holder (double)	1
Centrifuge Tubes (50 ml) Teflon, round	10
Centrifuge Tubes (50 ml) Glass, round	24
Centrifuge Tubes (50 ml) Plastic, round	100
Centrifuge Tubes (15 ml) Plastic, tapered	100
Clamp Holder (cast alloy)	10
Cork Rings (various sizes)	20
Detergent (non toxic & phosphate free)	12 kg
Disposable Filters (45 um)	250
Extension Clamps (three prong)	10
Filter Paper	50
Glass Jars, Telon lined lids (125 ml)	250
Glass Jars, Telon lined lids (250 ml)	250
Indicator Strips (pH range 0 -14)	600
Laboratory Gloves (disposable)	100
Mason Jars (500 ml)	24
Mortar and Pestle (250 ml) Glass	1
Pasteur Pipettes (14 cm) glass, disposable	2000
Pasteur Pipettes (23 cm) glass, disposable	2000
Pipette Bulbs (various sizes)	100
Pipette Tips (0 - 200 ul)	10 pk
Pipette Tips (250 - 1000 ul)	10 pk
Scoopulas (6")	12

Solid Phase extraction Cartridges (47mm)	250
Solid Phase Extraction Disks (6 ml)	250
Solvent Bottle Dispensers (adjustable 2 - 10 ml)	3
Spill Kit	1
Support Stand (6" x 9") base	5
Teflon Coated Magnetic Stir Bars	10
Utility Cart (acid & solvent resistant)	1
Standards	
Individual Pesticide Standards (ampoule)	100
Mixed Residue Standards (ampoule)	40

APPENDIX III

Pesticides Board

Imported Chemicals (2007) - Trade Names

1. 2,4 D Amine 720g/l
2. Abamectin
3. Acetamiprid
4. Acrobat
5. Actara 25WG
6. Actellic 50
7. Agil 10Ec
8. Algaecide
9. Alpha Cypermethrin
10. Aluminium Phosphine
11. Amidor 60
12. Angel Disinfectant
13. Angel Fabric Softener
14. Aqua Ammonia
15. Arsenal
16. Asulam 80WDG
17. B & J Dish Det.
18. Bait Traps
19. Banrot
20. Baygon Mosquito Coil
21. Baygon Spray
22. Bellis
23. Better Value Bleach
24. Bio-guard Quaternary Ammonium
 compd.
25. Black Disinfectant
26. Bleach
27. Bounce
28. Bowltrol
29. Brodifacoum
30. Brodifacoum Wax Block
31. Caprid
32. Captan
33. Carbaryl
34. Carbendazim
35. Carzone
36. Cascade
37. CHC Chlorine Granular
38. Chem Fog
39. Chemical latrine cleaner
40. Chemquat
41. Chlorine Gas
42. Chlorine Granular
43. Chlorine Liquid 99%
44. Chlorine Powder Trichlor
45. Chlorine Tablets
46. Chlorox Anywhere
47. Chlorox Handiwipes
48. Chlorpyrifos
49. Chlorpyrifos
50. Cleaning Solution
51. Clorox Bleach
52. Clorox Handiwipes
53. Clorox Liquid
54. Control Flowables
55. Controlflowable
56. Cresolex
57. Crude Linseed Oil
58. Crustacel - G
59. Cuprosan
60. Cure
61. Cypercal
62. Cypro
63. Cyromazine
64. Danol 60
65. Defoamer
66. Demand CS
67. Demon Max
68. Descaler
69. Detia Fumex Bags/ Aluminium
 Phosphide
70. Dettol
71. Diafenthiuron
72. Diazinon
73. Dipel 2x
74. Diphacinone
75. Disinfectant Floral

76. Disinfectant Lavender	121. Kocide 101
77. Disinfectant Ocean Breeze	122. Lambda Cyhalothrin
78. Disinfectant Wild Flower	123. Lannate 500ml
79. Diuron	124. Laundry Detergent
80. Diuron 80WP	(Streutex)
81. Downy	125. Linseed Stand Oil
82. Downy	126. Lysol
83. Drift	127. M.Pede
84. Dryel Refill	128. Maki Mini Blocks
85. Dual Gold 96 Ec	129. Malathion 57%EC
86. Era	130. Manzate
87. Fabuloso	131. Match 50EC
88. Febreeze Fabric	132. Maximo 50%
89. Fendona	133. Merlin 75WDG
90. Fenitrothion 500g/l EC	134. Merlin WG-SB
91. Fentil	135. Metamidophos 60SL
92. Fentin Acetate 60%WP	136. Metsulfuron Methyl
93. Fish Aerosol	137. Mineral Spirits
94. Flocoumafen	138. Monitor
95. Floral	139. Monocrotophos 60WSC
96. Fluazifop-P-Butyl	140. M-Pede
97. Fresh Scent 24x410ml	141. Mr. Clean
98. Fusilade 2000BD	142. Ninja 5EC
99. Gain	143. Off Bug Spray
100. Glyfosan 48SL	144. Oxiclean Active Stain
101. Glyphos-AG41	145. Padan
102. Glyphosate	146. Palmolive
103. Gramoxone	147. Palmolive Dish Ultra 64oz
104. Hydrochloric acid	148. Palmolive Oxy
105. Hydroxide Solution	149. Paraquat Dichloride 24%SL
106. Hyperkill 25Ec	150. Pegasus
107. Igran 500FW	151. Phosphoric Acid
108. Imidacloprid 70%WP	152. Phostoxin Pellets
109. Indufaom (Callaway)	153. Pinesol
110. Inimectin 1.8Ec	154. Piperonyl Butoxide
111. Inisan 60Sl	155. Pirate
112. Inithion 57	156. PLC 400(Testrasol 2000)
113. Insect Repellent	157. Pluronic
114. Insectojet Fogging Bottles	158. Pool Cleaning Tabs
115. Jeyes Fluid	159. Propanil 36EC
116. Joy Liquid	160. Prottox Aerosol
117. Karate Zeon	161. Prottox Mosquito Coils
118. Karmex	162. Pynaying D'Allethrin
119. Ketone	163. Quaternary Ammonium
120. Klerat Pellets	164. Rizolex

- | | | | |
|------|------------------------|------|--------------------------------------|
| 165. | Roger | 184. | Terro Antkiller |
| 166. | Round-Up Ultra | 185. | Thionil 35EC |
| 167. | Snuggle | 186. | Tide |
| 168. | Sodium Metabisulphite | 187. | Torpedo |
| 169. | Sodium Triployposphate | 188. | Touchdown 33SL |
| 170. | Soft Scrub | 189. | Triazophos |
| 171. | Solvent Propylene | 190. | VAP-Dichlorvos Dimethyl
Phosphate |
| 172. | Spray N Wash | 191. | Vape Aerosol |
| 173. | Starane 26.2% | 192. | Velpar 75 Df |
| 174. | Storm 0.005 BB | 193. | Vydate |
| 175. | Super Adit | 194. | White Spirits |
| 176. | Supona | 195. | Windex |
| 177. | Surfactron | 196. | Wipes Clorox |
| 178. | Suspend | 197. | Wisk |
| 179. | Swiffer | 198. | Woolite |
| 180. | Tempo Sc Ultra | 199. | Xentari |
| 181. | Terbutryn 500 FW | 200. | Xylene |
| 182. | Tergitol | | |
| 183. | Termidor | | |

APPENDIX IV

List of Importers

1. Agri Quality Inc.
2. Associated Industries Limited
3. American Construction
4. Anderson Chemicals
5. Ansa McAl
6. Bacchus Drug Store
7. Bahadur Bhadwandass
8. Banks DIH Ltd.
9. Bryden & Fernandes
10. Caribbean Chemicals Guyana Limited
11. Demerara Distillers Limited
12. Didco Trading Company
13. Edward Mohan
14. FCT Technologies Guyana Inc.
15. Friendship Oxygen Company
16. Geddes Grant / Trading & Distribution Inc.
17. Globe Manufacturing
18. Guy A Plus Imports
19. Guyana Sugar Cooperation
20. Guyana Water Authority
21. Hamlets Overseas Chem.
22. International Pharmaceutical Agency
23. MACORP
24. Mines Services Ltd
25. National Milling Company (NAMILCO)
26. Nobel House Seafood
27. Pestex
28. Rentokil Initial
29. Roma Manufacturing
30. The Outdoor Store
31. Torginol Paints Inc.
32. Una Adams

APPENDIX V

Total Imports of Pesticides by Common Names Imported and Value 2006

Insecticides	
Common Name	Total Cost (G\$)
Abamectin (l)	\$2,036,196.21
Acephate (l)	\$3,036,065.00
Acetamiprid (l)	\$1,667,285.54
Allethrin (l)	\$48,106,338.22
Alpha Cypermethrin (l)	\$10,226,458.77
Aluminium Phosphide	\$1,249,352.00
B. Thuringiensis (kg)	\$578,455.34
B-Cyfluthrin (l)	\$814,000.00
Carbaryl (kg)	\$3,231,891.25
Cartap (kg)	\$1,185,348.75
Chlorfenapyr (l)	\$1,145,653.30
Chlorfenvinphos (l)	\$88,296.98
Chlorpyrifos (l)	\$5,238,857.54
Cyfluthrin (ctn)	\$16,614,582.30
Cypermethrin (l)	\$4,405,353.59
Cyromazine (kg)	\$1,612,012.50
Deltamethrin (l)	\$688,000.00
Diafenthuirom (l)	\$4,680,560.34
Diazinon (l)	\$2,029,264.75
Dimethoate (l)	\$662,745.44
Dimethyl Phosphate	\$127,500.00
Endosulfan (l)	\$956,320.00
Fenitrothion (l)	\$164,205.00
Fenpropathrin (l)	\$328,009.50
Fipronil (l)	\$205,545.58
Imidacloprid (kg)	\$3,419,055.00
Imiprothrin (l)	\$28,836.00
Lambda Cyhalothrin (l)	\$3,187,510.25
Lufenuron (l)	\$977,059.80
Malathion (l)	\$1,914,037.54
Methamidophos (l)	\$5,077,948.28

Methomyl (l)	\$4,326,815.45
Monocrotophos (l)	\$37,332,183.75
Oleic Acid (l)	\$88,588.10
Oxamyl (l)	\$1,760,122.00
Phosphine	\$93,334.00
Piperonyl Butoxide (kg)	\$245,600.00
Pynaying D'Allethrin (l)	\$5,076,000.00
Pyrimiphos-methyl (l)	\$824,279.50
Tetramethrin (l)	\$11,793,897.63
Thiamethoxam (kg)	\$283,588.04
Triazophos (l)	\$2,604,875.00
TOTAL	\$190,112,028.24
Herbicides	
2,4 D (l)	\$56,116,847.00
Asulam (kg)	\$56,678,425.63
Diuron (kg)	\$59,900,912.75
Fluazifop-p-butyl (l)	\$19,982,361.45
Fluropyr (l)	\$1,183,200.00
Glyphosate (l)	\$59,281,698.75
Hexazinone (kg)	\$2,695,360.80
Isoxaflutole (kg)	\$267,340,775.30
Metribuzin (kg)	\$214,809.90
Metsulfuron (kg)	\$769,378.85
Paraquat (l)	\$23,385,465.00
Paraquat Dichloride (l)	\$40,175,832.50
Propanil (l)	\$2,013,552.00
Propaquizafop (l)	\$2,222,650.50
Terbutryn (l)	\$62,864,375.00
Triazine (kg)	\$39,828.80
S-Metholachlor (l)	\$44,966,282.50
TOTAL	\$699,831,756.73
Fungicides	
Banrot (kg)	\$103,320.00
Captan (kg)	\$595,871.27
Carbendazim (l)	\$2,227,418.42
Chlorothalonil (l)	\$1,820,342.90
Copper Oxychloride (kg)	\$4,287,213.00
Dimethomorph (kg)	\$266,092.72
Fentin Acetate (kg)	\$8,034,430.50
Maganase (kg)	\$3,782.13
Pyraclostrobin (kg)	\$599,322.83

Thiophanate-methyl (kg)	\$155,865.15
Tolclofos-methyl (kg)	\$7,352,139.78
TOTAL	\$25,445,798.70
Rodenticides	
Brodifacoum (kg)	\$145,956,533.85
Bromadiolone (kg)	\$3,238,000.00
Diphacinone (kg)	\$1,600,000.00
Flocoumafen (kg)	\$25,278,822.80
TOTAL	\$176,073,356.65
Other	
Aqua Ammonia (kg)	\$169,786.00
Chlorine	\$29,338,008.75
Crude Linseed Oil (kg)	\$3,650,000.00
Defoamer	\$320,400.00
Detergent	\$9,656,757.99
Dettol	\$720,000.00
Disinfectant	\$40,393,395.36
Hydrochloric Acid	\$369,637.50
Indufaom (kg)	\$787,800.00
Linseed Stand Oil (kg)	\$2,700,000.00
Mineral Spirits (l)	\$30,918,837.53
Phosphoric Acid (kg)	\$2,414,521.36
Pluronic (kg)	\$709,200.00
Quaternary Ammonium (l)	\$82,824.00
Sodium Metabisulphite (kg)	\$5,787,609.13
Sodium Tripolyphosphate (kg)	\$537,671.25
Solvent Propylene (kg)	\$322,180.00
Super Adit (kg)	\$4,269,330.00
Surfactant (l)	\$216,000.00
Tergitol (kg)	\$167,624.00
White Spirits (kg)	\$23,386,506.50
Xylene (kg)	\$11,961,520.00
TOTAL	\$168,879,609.37

APPENDIX VI

Licensed Vending Premises

No.	NAME	ADDRESS
1.	A. Taki and Sons	Hogsty Corentyne, Berbice
2.	Abdul Ansar Azam	29 Lima Housing Scheme, Essequibo Coast
3.	Ariff Mohamed Khan	Lima, Essequibo Coast
4.	Balram Kewal (importer)	Land of Plenty, Essequibo Coast
5.	Basdeo Manman and Company	40 Bush Lot, Essequibo Coast
6.	Chand Kumar Hardyal (VSS)	90 Springlands, Corentyne, Berbice
7.	Chate Narine	6 Paradise, Essequibo Coast
8.	Dudnauth's Hardware and Agricentre	Lo1 Sec. A #79 Village, Corriverton, Berbice
9.	Ghamshan Dalchand	26 Adventure, Essequibo Coast

10.	Gubas Ramrup	Lot 5 Third Street, Seawell Village, Berbice
11.	Guyadat Bhola	Lot 5 Grant 1802, CWC, Berbice
12.	Haresh Rama	Lot 24 Grant 1651, CWC, Berbice
13.	Imam Bacchus and Sons	Affiance, Essequibo Coast
14.	Ivan And Latchmin Narine	Anna Regina, Essequibo Coast
15.	Jason Beram Singh	19 Main Street, New Amsterdam, Berbice
16.	Kenrick Boyce	Lot X Ondeneering Essequibo Coast
17.	Mansoor Mohammed	Charity, Essequibo Coast
18.	Mohammed H Kamalodeen	#46 Village, Corentyne, Berbice
19.	Nanlall Hardwar	55 Lesbeholden, BBP, Berbice
20.	Outram Ramprashad	Mibikuri North, BBP, Berbice
21.	Poonai's Pharmacy	Rosehall Town, Berbice
22.	Roopnarine Bisnauth	Supenaam Market, Essequibo Coast
23.	Samaroo Investments	201 Hampton Court, Essequibo Coast

24.	Sarvanand J Persaud	Corriverton, Berbice
25.	Seunarine Hardeen	#55 Village, Corentyne, Berbice
26.	Sohanlall Baboolall	47 Public Rd Queenstown, Essequibo Coast
27.	Sorojoodin Jewdhan	91 Yakusari, BBP, Berbice
28.	Sundar Persaud	6 Taymouth Manor, Essequibo Coast
29.	T. Bisnauth & R. Bisnauth	Lot A6 Spring Garden, Essequibo Coast
30.	Talish Parsotan	Lot 1 Taymouth Manor, Essequibo Coast.
31.	Tekram Sankar & S. Dyal	28 Dennis Street Anna Regina, Essequibo Coast
32.	Vimal Ganesh	7-8 Bush Lot Farm Corentyne, Berbice
33.	Vincent Persaud	West Berry, Essequibo Coast.
34.	Yoolaim Bacchus	92B Makeshift Aurora, Essequibo Coast

APPENDIX VII

Pesticides Board Approved Budgeted Expenditure 2006

Heads / Sub-Head	Details of Expenditure			Total
Employment Cost	<i>Monthly</i>	<i>Gratuity</i>	<i>Allowances</i>	
Subtotal	\$680,500.00		\$0.00	\$8,166,000.00
Employment Overheads	<i>Monthly</i>	<i>Leave</i>	<i>Gratuity</i>	
Subtotal	35,520	\$640,000.00		\$2,794,240.00
Materials, Equipment and Supplies	<i>Monthly</i>		<i>Annually</i>	
Subtotal	\$40,000.00		\$175,000.00	\$655,000.00
Fuel & Lubricants	<i>Monthly</i>	<i>Quarterly</i>		
Subtotal	\$90,000.00	\$10,000.00		\$1,120,000.00
Maintenance of Buildings	<i>Monthly</i>		<i>Annually</i>	
Subtotal	\$25,000.00		\$400,000.00	\$700,000.00
Travel and Postage	<i>Monthly</i>	<i>Quarterly</i>	<i>Annually</i>	
Subtotal	\$50,000.00	\$165,000.00	\$69,760.00	\$1,329,760.00
Utility Charges	<i>Monthly</i>			
Subtotal	\$68,000.00			\$816,000.00
Other Goods and Services		<i>Quarterly</i>	<i>Annually</i>	
Subtotal		\$40,000.00	\$75,000.00	\$235,000.00
Other Operating Expenses	<i>Monthly</i>	<i>Quarterly</i>	<i>Annually</i>	
Subtotal	\$35,000.00	\$20,000.00		\$500,000.00
Total				\$16,316,000.00

APPENDIX VIII
PESTICIDES AND TOXIC CHEMICALS CONTROL BOARD
BALANCE SHEET
AS AT DECEMBER 31ST 2006

2005	NOTES	\$	\$
2005			2006
6,437,962	FIXED ASSETS	4	8,024,074
	CURRENT ASSETS		
12,642,649	Cash at Bank and on Hand	8,547,466.27	
<u>12,642,649</u>	NET CURRENT ASSETS	8,547,466.27	
<u>19,080,611</u>	NET TOTAL ASSETS		<u>16,571,540.27</u>
	FINANCED BY:		
9,117,654	Capital Contribution		9,117,654
9,962,957	Surplus		<u>7,453,886.27</u>
<u>19,080,611</u>			<u>16,571,540.27</u>

Leslie Munroe
Chairman

Date

Basudeo Dwarka
Registrar

Date

PESTICIDES AND TOXIC CHEMICALS CONTROL BOARD

STATEMENT OF INCOME AND EXPENDITURE

FOR THE YEAR ENDED DECEMBER 31ST 2006

2005	OPERATING INCOME	NOTE	2006
\$		S	\$
14,592,000	Subvention		17,658,254
558,441	Miscellaneous Income	2	<u>1,847,054</u>
15,150,441			<u>19,505,308</u>
	OPERATING EXPENDITURE		
9,321,867	Employment Costs	3	11,061,217
0	Local Travel & Subsistence		0
456,000	Fees (Board Members)		243,000
179,330	Office Materials & Supplies		1,276,689
342,087	Building Maintenance		444,194
766,112	Print & Non-Print Materials		2,639,559
680,634	Fuel and Lubricants		546,430
309,374	Office Equipment Maintenance		926,510
361,442	Spares and Service		600,982
226,260	Telephone Charges		197,800
215,895	Refreshments		210,645
23,452	Bank Charges		12,775.00
3,092,189	Meetings & Other Events		4,109,072
1,488,667	Depreciation	1	1,189,986
			<u>23,458,859</u>
<u>(2,312,868)</u>	Net Surplus/(Deficit)		<u>(3,953,551)</u>

PESTICIDES AND TOXIC CHEMICALS CONTROL BOARD

CASH FLOW STATEMENT

AS AT DECEMBER 31ST 2006

NET INFLOW (OUTFLOW) FROM OPERATING ACTIVITIES	(3,953,551)
Depreciation	1,189,986
	<hr/>
	(2,763,565)
Cash Flow From Purchasing Capital Items	1,304,726
Cash Inflow (Outflow) before Financing	(1,458,839)
<u>Financed By</u>	
Government Contributions	0

Net Increase / Decrease in Cash

(1,458,839)

APPENDIX IX

Proposed Expenditure 2007

Heads / Sub-Head	Details of Expenditure			Total
Employment Cost	<i>Monthly</i>		<i>Allowances</i>	
<i>Subtotal</i>	\$1,245,500.00		\$0.00	\$15,162,000.00
Employment Overheads	<i>Monthly</i>	<i>Leave</i>		
<i>Subtotal</i>	54,520	\$1,205,000.00		\$5,112,740.00
Materials, Equipment and Supplies	<i>Monthly</i>		<i>Annually</i>	
<i>Subtotal</i>	\$250,000.00		\$250,000.00	\$3,250,000.00
Fuel & Lubricants	<i>Monthly</i>	<i>Quarterly</i>		
<i>Subtotal</i>	\$95,000.00	\$12,000.00		\$1,188,000.00
Maintenance of Buildings	<i>Monthly</i>		<i>Annually</i>	
<i>Subtotal</i>	\$30,000.00		\$450,000.00	\$810,000.00
Travel and Postage	<i>Monthly</i>	<i>Quarterly</i>	<i>Annually</i>	
<i>Subtotal</i>	\$60,000.00	\$170,000.00	\$1,100,000.00	\$2,500,000.00
Utility Charges	<i>Monthly</i>			
<i>Subtotal</i>	\$135,000.00			\$1,620,000.00

Other Goods and Services		<i>Quarterly</i>	<i>Annually</i>	
<i>Subtotal</i>		\$60,000.00	\$75,000.00	\$315,000.00
Other Operating Expenses	<i>Monthly</i>	<i>Quarterly</i>	<i>Annually</i>	
<i>Subtotal</i>	\$60,000.00	\$300,000.00		\$1,970,000.00
Total				\$31,927,740.00

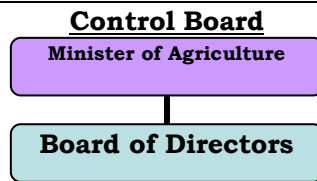
APPENDIX X

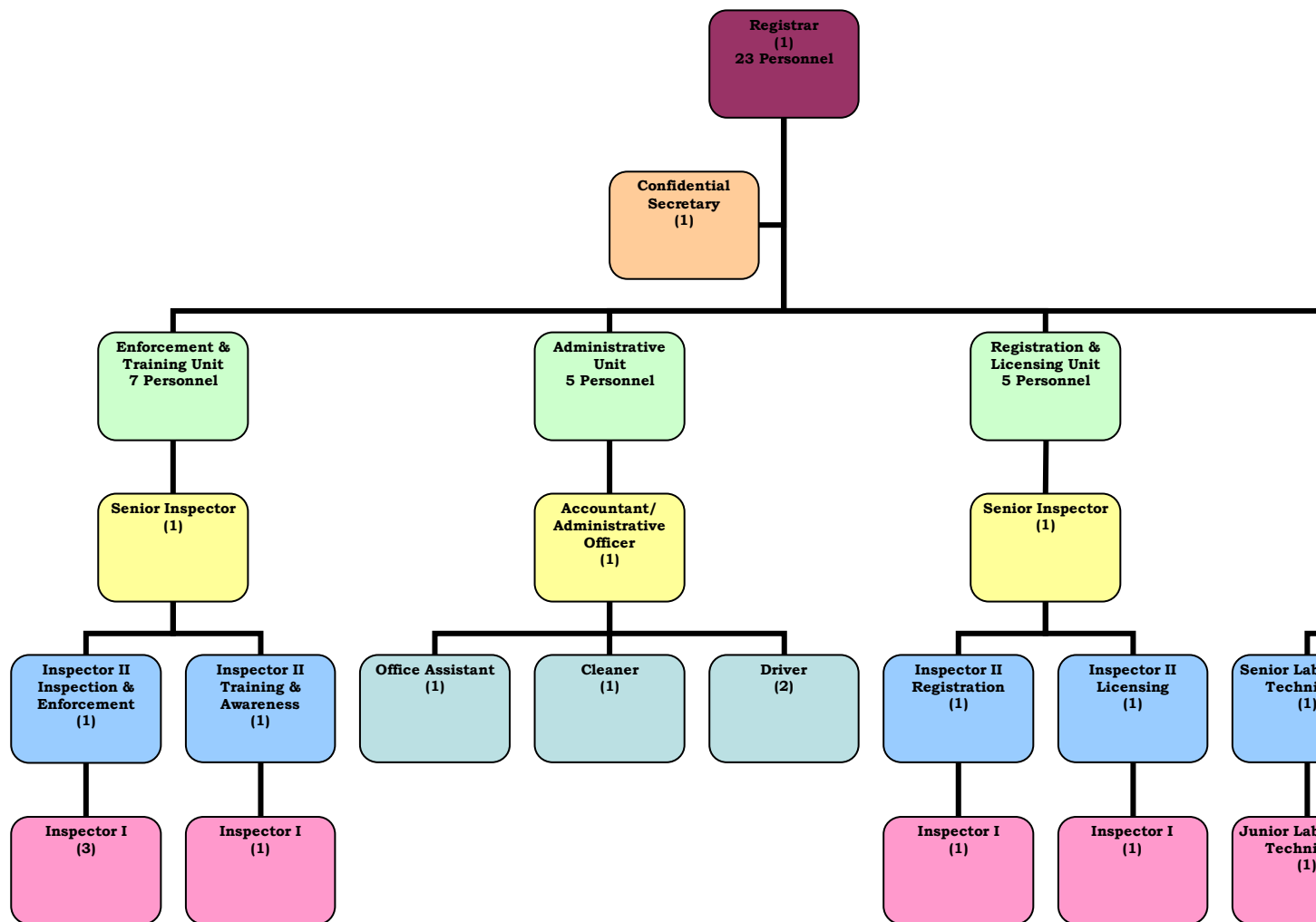
List of chemicals prohibited in Guyana

- (a) 2,4,5-T and its salt and esters;
- (b) Aldrin;
- (c) Captafol;
- (d) Chlordane;
- (e) Chlordimeform;
- (f) Chlorobenzilate;
- (g) Dieldrin;
- (h) Dinoseb;
- (i) 1-2-Dibromoethane;
- (j) Fluoroacetamide;
- (k) Heptachlor;
- (l) Hexachlorobenzene;
- (m) Lindane;
- (n) Mercuric chloride;
- (o) Methyl Parathion;
- (p) Mirex;
- (q) Parathion;
- (r) Pentachlorophenol;
- (s) Phosphamidon;
- (t) Toxaphene;
- (u) Mixed Isomers of Hexachlorocyclohexane; and

(v) Endrin.

Appendix XI: Organisational & Personnel Chart for the Pesticides and Toxic Chemicals





**APPENDIX XII
GUYANA**

BILL No. of 2007

**PESTICIDES AND TOXIC CHEMICALS CONTROL
(AMENDMENT) BILL 2007**

ARRANGEMENT OF SECTIONS

Section

1. Short title.
2. Amendment of long title of Principal Act.
3. Amendment of section 7 of Principal Act.
4. Amendment of section 11 of Principal Act.
5. Amendment of section 12 of Principal Act.
6. Amendment of section 15 of Principal Act.
7. Amendment of section 16 of Principal Act.
8. Amendment of section 18 of Principal Act.
9. Amendment of section 19 of Principal Act.
10. Amendment of section 29 of Principal Act.
11. Amendment of section 32 of Principal Act.
12. Amendment of section 34 of Principal Act.

A BILL
Intituled

AN ACT to amend the Pesticides and Toxic Chemicals Control Act 2000.

A.D. 2007 Enacted by the Parliament of Guyana:-

Short title. 1. This Act, which amends the Pesticides and Toxic Chemicals Control Act 2000, may be cited as the Pesticides and Toxic Chemicals Control (Amendment) Act 2007.

Amendment of long title of Principal Act. 2. The long title of the Principal Act is amended by inserting, immediately after the word “importation”, a comma followed by the word “exportation”.

Amendment of section 7 of Principal Act. 3. Section 7 of the principal Act is amended-

- (a) by renumbering it “7 (1)”;
- (b) by inserting in paragraph (b), immediately after the word “import”, a comma followed by the word “export”;
- (c) by inserting in paragraph (f), immediately after the word “importation”, a comma followed by the word “exportation”;
- (d) by inserting, immediately after paragraph (i), the following paragraphs -
 - “(ia) to provide information and advice as required to fulfill Guyana’s obligations under international agreements;
 - “(ib) to oversee Guyana’s implementation of international agreements”; and
- (e) by adding the following subsection -
 - “ In subsection (1)(ia) and (ib), “international agreements” means international agreements to which Guyana is a party concerning the manufacture, importation, exportation, transportation, storage, sale, use, or disposal of pesticides or toxic chemicals.”

Amendment of section 11 4. Section 11 of the Principal Act is amended by inserting, immediately

of Principal Act.

after the word “import”, a comma followed by the word “export”.

Amendment of section 12 of Principal Act.

5. Section 12 of the Principal Act and the marginal note are amended by substituting for the words “or import” in both places where they occur, the words “import or export”.

Amendment of section 15 of Principal Act.

6. Section 15 of the Principal Act is amended by inserting, immediately after the word “import”, a comma followed by the word “export”.

Amendment of section 16 of Principal Act.

7. Section 16(1) of the Principal Act is amended by inserting, immediately after the word “import”, a comma followed by the word “export”.

Amendment of section 18 of Principal Act.

8. Section 18 of the Principal Act is amended -

- (a) by inserting in the marginal note, immediately after the word “imported”, the words “or exported”; and
- (b) by inserting, immediately after subsection (2), the following subsection -

“(3) Except as provided by the regulations, no controlled product shall be exported from Guyana unless the product wholly conforms to the law of Guyana and is accompanied by a certificate from Board in the form determined by the Board that the product does not contravene any known requirement of Guyana.”

Amendment of section 19 of Principal Act.

9. Section 19 of the Principal Act is amended -

- (a) by substituting, for subsection (1), the following subsection -

“(1) The Minister may, by order made after consultation with the Board, specify either or both of the following for the purposes of this Act-

- (a) pesticides that must not be imported into or used in Guyana;
- (b) pesticides that must not be exported from Guyana”;

- (b) by substituting for the words “the list of specified prohibited

pesticides” in subsection (2), the words “any order made under subsection (1)”;

- (c) by substituting for subsection (3) the following subsection -
 - “(3) An order made under this section may provide for the withdrawal from sale or use, and for the disposal of, any pesticide specified in the order.”

**Amendment
of section 29
of Principal
Act.**

10. Section 29 of the Principal Act is amended -

- (a) by inserting in subsection (1), immediately after the words “imported into”, the words “or to be exported from”;
- (b) by inserting in subsection (2), immediately after the word “importer”, the words “or exporter (as the case may be)”;
- (c) by substituting for subsection (3), the following subsections -

- “(3) In the case of a product to be imported into Guyana, -

- (a) if it appears from the report of the inspector or analyst that the sale or use of the product in Guyana would contravene this Act, the product must not be admitted into Guyana; and
 - (b) otherwise, the product shall, subject to any other law, be admitted into Guyana.

- (3A) In the case of a product to be exported from Guyana to another country, -

- (a) if it appears from the report of the inspector or analyst that exportation of the product to the country concerned is not authorized by an export license issued by the Board, the product shall not

- be exported from Guyana; and
- (b) otherwise, the product shall, subject to any other law, be permitted to be exported to that country”.

**Amendment
of section 32
of Principal
Act.**

11. Section 32 of the Principal Act is amended -

- (a) by inserting in paragraph (a), immediately after the word “importation, a comma followed by the word “exportation”;
- (b) by inserting in paragraph (i), immediately after the word “imported”, a comma followed by the word “exported”; and
- (c) by inserting in paragraph (w), immediately after the word “importers”, a comma followed by the word “exporters”.

**Amendment
of section 34
of Principal
Act.**

12. Section 34(1) of the Principal Act is amended by inserting in paragraph (a), immediately after the word “imports”, a comma followed by the word “exports”.

Passed by the National Assembly on

2007.

S.E. Isaacs.
Clerk of the National Assembly.

(BILL No. /2007)

APPENDIX XIII

GUYANA

No. _____ of 2007

REGULATIONS

**MADE UNDER
THE PESTICIDES AND TOXIC CHEMICALS CONTROL ACT 2000
(No. 13 of 2000)**

ARRANGEMENT OF REGULATIONS

REGULATION

- 1. Citation.**
- 2. Commencement.**
- 3. Amendment of regulation 95 of Principal Regulations.**
- 4. Insertion of new part VIA relating to importation and exportation of controlled products.**
- 5. Amendment of Sixth Schedule to Principal Regulations.**

SCHEDULE 1 – New Form I added to Sixth Schedule of Principal Regulations

SCHEDULE 2 – New Form J added to Sixth Schedule of Principal Regulations

IN EXERCISE OF THE POWERS CONFERRED UPON ME BY SECTION 32 OF THE PESTICIDES AND TOXIC CHEMICALS CONTROL ACT 2000, I HEREBY MAKE THE FOLLOWING REGULATIONS:-

Citation 13. These Regulations, which amend the Pesticides and Toxic Chemicals Control Regulations 2004, may be cited as the Pesticides and Toxic Chemicals Control (Amendment) Regulations 2006.

Commencement 14.(1) Subject to subclause (2) of this regulation, these regulations come into force six months after the date of their publication in the *Gazette*.

(2) Regulation 4 of these regulations, so far as it relates to importation of controlled products or import licences, is deemed to have come into force on 27 November 2004.

Amendment of regulation 95 of Principal Regulations 15. Regulation 95 of the Principal Regulations is amended by inserting in subclauses (1) and (2), after the word “manufacture” in each case, the word “export”.

Insertion of new Part VIA relating to importation and exportation of controlled products 16. The Principal Regulations are amended by inserting, after Part VI, the following Part:

“PART VIA
IMPORTATION AND EXPORTATION OF PESTICIDES OR TOXIC
CHEMICALS

Form of application for import licence 135A. Any person who wishes to import a controlled product may apply to the Registrar for an import licence using Form G of the Sixth Schedule accompanied by the relevant fee (if any) set out in the Third Schedule.

Features of import licence 135B. An import licence issued by the Board –

- (a) must be in Form H of the Sixth Schedule; and
- (b) is valid for a single importation of the product specified in the licence; and
- (c) expires six months after its date of issue, unless an earlier expiry date is specified on the licence; and
- (d) cannot be transferred or renewed.

Form of application for export licence

135C. Any person who wishes to export a controlled product may apply to the Registrar for an export licence using Form I of the Sixth Schedule accompanied by the relevant fee (if any) set out in the Third Schedule.

Features of export licence

135D. An export licence issued by the Board –

- (a) must be in Form J of the Sixth Schedule; and
- (b) is valid for a single exportation of the product specified in the licence; and
- (c) expires six months after its date of issue, unless an earlier expiry date is specified on the licence; and
- (d) cannot be transferred or renewed.

Board must give reasons for refusing application

135E. If the Board decides to refuse an application for an import or export licence, the Board must, as soon as practicable, notify the applicant in writing of its decision and the

reasons for it.

Board must give reasons for revoking licence

135F. If the Board decides to revoke an import or export licence, the Board must, as soon as practicable, notify the licence holder in writing of its decision and the reasons for it.

Notification of minor changes

135G. (1) The holder of an import or export licence must notify the Registrar in writing of -

- (a) Any change in the trade name of a product specified in the licence; and
- (b) Any change in the name or address of the holder; and
- (c) In relation to an import licence, any change in the identity, name, or address of the supplier or buying agent; and
- (d) In relation to an export licence, any change in the identity, name, or address of the importer.

- (2) A notification under subsection (1) must be made –
 - (a) before any further importation or exportation of product under the relevant licence; and
 - (b) in any case, within one month of the relevant change.
- (3) Failure to comply with subclause (2) of this regulation invalidates the licence.”

**Amendment of
Sixth Schedule
of Principal
Regulations**

5. The Sixth Schedule to the Principal Regulations is amended by adding the following forms:
- (a) Form I, which is set out in Schedule 1; and
 - (b) Form J, which is set out in Schedule 2.

Made this _____ day of _____ 2007.

.....
Minister of Agriculture

SCHEDULE 1

New Form I added to Sixth Schedule of principal regulations

FORM I

APPLICATION FOR LICENCE TO EXPORT PESTICIDES AND TOXIC CHEMICALS

(To be prepared in Duplicate)

APPLICATION FOR EXPORT LICENCE

PESTICIDES AND TOXIC CHEMICALS

(Under the Pesticides and Toxic Chemicals Act (No. 13 of 2000))

TO THE REGISTRAR, PESTICIDES AND TOXIC CHEMICALS:

We, _____
_____ of _____ hereby apply for Licence to export the
goods specified below to:

Product Name	Active Ingredients & %	Product Type	Registration No.
(a) _____	_____	_____	_____
(b) _____	_____	_____	_____
(c) _____	_____	_____	_____
(d) _____	_____	_____	_____
(e) _____	_____	_____	_____

(Country of consignment)

Name and Address of Importer: _____
_____ e-mail: _____ Phone No.: _____ Fax No. _____.

2. We desire to forward these goods on or about _____ (Date)
by _____. (State whether by air or ship, or otherwise)

Per _____ (Name of authorized Individual)

Signature _____ Date _____

SCHEDULE 2

New Form J added to Sixth Schedule of principal regulations

FORM J

FORM OF EXPORT LICENCE

PESTICIDES AND TOXIC CHEMICALS CONTROL BOARD

Reference: _____

**EXPORT LICENCE
PESTICIDES AND TOXIC CHEMICALS**

Permission is hereby granted under the Pesticides and Toxic Chemicals Control Act (No. 13 of 2000) to _____ to export the following goods specified below:

Description of Goods	Quantity	Classification
(a) _____	_____	_____.
(b) _____	_____	_____.
(c) _____	_____	_____.
(d) _____	_____	_____.
(e) _____	_____	_____.

to _____

subject to the conditions, restrictions and limitations stated hereunder.

CONDITIONS

1. This licence shall remain in force until the _____ day of _____ 20____.
2.
3.

Registrar

Date

Pesticides and Toxic Chemicals

Stamp

Seal