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Programme**



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Executive Committee of  
the Multilateral Fund for the  
Implementation of the Montreal Protocol

Seventeenth Meeting  
Montreal, 26-28 July 1995

**1995 UNDP WORK PROGRAMME AMENDMENTS**

This document includes Comments and Recommendations from the Fund Secretariat on the following projects:

|           |                                                                                           |
|-----------|-------------------------------------------------------------------------------------------|
| Gambia    | Institutional Strengthening for the Implementation of the Montreal Protocol in Gambia     |
| Gambia    | Project Preparation Assistance                                                            |
| Ghana     | Survey of Methyl Bromide Consumption in Ghana                                             |
| Indonesia | Survey of Production & Consumption of Methyl Bromide                                      |
| Malaysia  | Survey of Consumption of Methyl Bromide                                                   |
| Mexico    | Institutional Strengthening Project (Phase 2)                                             |
| Uruguay   | Elimination of Carbon Tetrachloride use in the Treatment of Cattle                        |
| Venezuela | Preparatory Assistance for the Domestic and Commercial Refrigeration Manufacturing Sector |

## COMMENTS AND RECOMMENDATIONS FROM THE FUND SECRETARIAT

### COMMENTS

1. An additional eight work programme activities are being presented for the Executive Committee's consideration. The additional request represents:

|                                      |              |
|--------------------------------------|--------------|
| Work Programme Activities:           | US \$686,265 |
| Project support costs (13 per cent): | US \$ 89,214 |

2. Without a country programme for Gambia, a determination of the advisability of project preparation or institutional strengthening can not be made at this time.

3. Surveys of methyl bromide consumption are being requested for Ghana, Indonesia, and Malaysia. The Executive Committee has already approved a request for a methyl bromide survey in China at a cost of US \$87,000. Providing surveys on a country-by-country basis would be a costly precedent, especially in advance of a decision by the Parties that methyl bromide is a controlled substance for Article 5 countries. A global project that surveys consumption in all Article 5 countries may be more cost-effective.

4. UNDP is requesting US \$15,000 for a technical assistance project in Uruguay. Currently, farmers in Uruguay use carbon tetrachloride as a medicine for cattle. This activity will inform farmers to use an alternative medicine and will lead to the elimination of Uruguay's carbon tetrachloride consumption. The dissemination of alternatives to carbon tetrachloride is within the scope of institutional strengthening and UNEP's clearinghouse function.

5. Mexico is seeking renewal of its institutional strengthening project. The first 3-year programme was approved in the amount of US \$285,000. This request is for US \$222,000. The Executive Committee is being requested to consider the basis for renewal of all institutional strengthening projects. UNDP agreed to defer this request pending a decision from the Executive Committee.

6. UNDP is requesting US \$30,000 for project preparation in the domestic and commercial refrigeration sector in Venezuela. UNDP received US \$40,000 for this activity in December 1994 but all funds have been utilized. The request is for funding to continue UNDP's project preparation efforts in Venezuela's refrigeration sector.

## RECOMMENDATIONS

7. The Secretariat recommends approval of two of the activities requested in this document in the amount of US \$30,000 and agency support costs of US \$3,900 pending the Executive Committee's decision concerning the renewal of institutional strengthening.

8. The Executive Committee should consider requesting UNDP to develop an umbrella project for a global survey of methyl bromide consumption in all Article 5 countries.

| Country   | Activity/Project                                                                          | Amount Requested (US \$) | Amount Recommended (US \$) |
|-----------|-------------------------------------------------------------------------------------------|--------------------------|----------------------------|
| Gambia    | Institutional Strengthening for the Implementation of the Montreal Protocol in Gambia     | 144,265                  | 0                          |
| Gambia    | Project Preparation Assistance                                                            | 30,000                   | 0                          |
| Ghana     | Survey of Methyl Bromide Consumption in Ghana                                             | 30,000                   | 0                          |
| Indonesia | Survey of Production & Consumption of Methyl Bromide                                      | 130,000                  | 0                          |
| Malaysia  | Survey of Consumption of Methyl Bromide                                                   | 85,000                   | 0                          |
| Mexico    | Institutional Strengthening Project (Phase 2)                                             | 222,000                  | Pending                    |
| Uruguay   | Elimination of Carbon Tetrachloride use in the Treatment of Cattle                        | 15,000                   | 0                          |
| Venezuela | Preparatory Assistance for the Domestic and Commercial Refrigeration Manufacturing Sector | 30,000                   | 30,000                     |

## PROJECT COVER SHEET

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COUNTRY: THE REPUBLIC OF THE GAMBIA

SECTORS COVERED: Several

ODS CONSUMPTIONS: 26 tonnes/year (1993)  
(ALL SECTORS) (0.025 kg per capita consumption)

PROJECT TITLE: Institutional strengthening for implementing  
the Montreal Protocol in The Gambia

PROJECT DURATION: 3 years

PROJECT IMPACT:

ODS PHASE-OUT: Not applicable

OTHER: Institutional Participation in  
the implementation process

FUNDING REQUESTED: US\$ 144,265

IMPLEMENTING AGENCY: UNDP

NATIONAL COORDINATING AGENCY: National Environment Agency  
Office of the President

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### PROJECT SUMMARY

As a Party operating under Article 5, Paragraph 1 of the Montreal Protocol on Substances that Deplete the Ozone Layer, The Gambia is required to phase out the consumption of Chlorofluorocarbons, halons and carbon tetrachloride controlled under the protocol by the year 2010 and methyl chloroform by the year 2015, ten (10) years after non-Article 5 Countries. However, due to its commitment to the Montreal Protocol, the Government of The Gambia is prepared to go faster than the requirements of the Protocol to phase out ODS consumption. The current institutional weakness may unfortunately be a determining factor, though.

The project intends to ensure the establishment of a functional National Ozone Office necessary for local capacity building, project formulation, development and implementation, and information dissemination activities required to implement the Montreal Protocol in The Gambia. The National Ozone Office will ensure effective implementation of The Gambia Country Programme as soon as it is approved by the Executive Committee of the Multilateral Fund.

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## PROJECT COVER SHEET

COUNTRY: Gambia

SECTOR COVERED: Foams  
Recovery/Recycling of Refrigerant

NATIONAL ODS CONSUMPTION: 26 Tonnes/Year (1993)

PROJECT TITLE: Project Preparation Assistance

PROJECT DURATION: One year from approval

PROPOSED BUDGET: US\$ 30,000.00

IMPLEMENTING AGENCY: UNDP

NATIONAL COORDINATING AGENCY: National Environment Agency  
Office of the President

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The Country Programme for the Republic of The Gambia will be presented at the 18th Executive Committee Meeting in November 1995.

The preliminary data generated during the National Survey of Ozone Depleting Substances indicate the use of approximately 5.6 tonnes per year of trichlorofluoromethane (CFC-11) in the foam sector and twenty (20) tonnes in the servicing and recharging of various refrigeration equipment. During the United Nations Environment Programme Network Meeting for English Speaking African Countries held in Nairobi, Kenya from 15-18 May, 1995, discussions were held between the representatives of United Nations Development Programme (UNDP) and The Gambia. Consequently, and further to those discussion, The Government of The Gambia requests that UNDP, as one of the four implementing Agencies of the Multilateral Fund, includes in its work programme, provisions for the preparation of projects that will be presented at the 18th and/or 19th Executive Committee Meetings.

Two National Consultants will be recruited to work in collaboration with the UNDP's Sector Experts in order to formulate at least two project proposals that will be presented at the 18th and/or 19th Executive Committee Meetings.

The funds requested would be used during a period of six months to cover costs in relation to International Consultants (US \$20,000.00) and National Consultants (US \$ 10,000.00) as stipulated above.

## PROJECT COVER SHEET

COUNTRY: Ghana  
SECTOR COVERED: Methyl Bromide  
SECTORAL ODS CONSUMPTION: Not established  
NATIONAL ODS CONSUMPTION: 100 Tonnes  
PROJECT TITLE: Survey of Methyl Bromide consumption in Ghana  
PROJECT DURATION: One year  
PROJECT RESULT: Collection of information on Methyl Bromide use in Ghana to facilitate future project identification.  
  
PROPOSED BUDGET: US \$30,000.00  
IMPLEMENTING AGENCY: UNDP  
NATIONAL COORDINATING AGENCY: Ghana's Environmental Protection Agency  
EPA

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## PROJECT DESCRIPTION

The preliminary survey undertaken by the Ozone Office of the Environmental Protection Agency in 1992 indicated that Ghana imported 100 tonnes of Methyl Bromide for various purposes. However, this study was performed on a general basis, and did not identify actual importers/users of this ODS.

With the possible inclusion of Methyl Bromide among the list of chemicals controlled under the Montreal Protocol, an in depth study into its importation, distribution and use in Ghana is necessary in order to establish a definite programme to cover its eventual phaseout.

This project will ascertain the current importation figures for Methyl Bromide in Ghana. A specific inventory of suppliers and users will be compiled, and the total national consumption will be determined. A survey team will be appointed to design the survey methods, implement the actual survey and collate the information once the survey is completed. The schedule consists of the survey from September 1995 - February 1996, meetings and workshops during March - May 1996 and a final report in July 1996.

The report detailing the findings of this survey as well as alternatives to Methyl Bromide will be organized by Ghana's Environmental Protection Agency. This information will be based on UNEP's Technical Options Committee reports, as well as on the recommendations by International/National experts in these fields who have been actively working in the phaseout of methyl bromide in industrialised countries. A demonstration project proposal, using the information from the above study, will be designed, where one or two of the most cost effective solutions to phase out methyl bromide will be demonstrated. The results of the demonstration project will be disseminated to other countries with similar

consumption patterns which might be interested in its findings.

The budget of \$30,000 includes the National Consultants/support personnel (US \$ 8,000), internal travel expenses of the survey team/investigators (4,000), development of the data reporting system (3,000), cost of organizing the regional and national meetings/workshops (5,000) and the services of an international consultant (US\$10,000) - preferably having worked in the phaseout of methyl bromide in a region with similar climatic conditions as Ghana, such as for example Florida - USA).

### PROJECT COVER SHEET

COUNTRY : Indonesia  
PROJECT TITLE : Survey of Production & Consumption  
of Methyl Bromide in Indonesia  
SECTOR COVERED : Methyl Bromide  
ODS USE IN SECTOR : Unknown  
NATIONAL ODS CONSUMPTION : 7,815 M.T.  
PROJECT IMPACT : Collection and analysis of basic  
information on production and  
consumption of Methyl Bromide to  
facilitate planning of a future  
phaseout programme.  
PROJECT DURATION : One year  
PROPOSED MLF FINANCING: USD \$ 130,000  
COST EFFECTIVENESS : N/A  
NATIONAL COORDINATING AGENCY: Ministry of Environment  
IMPLEMENTING AGENCY : United Nations Development  
Programme

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### PROJECT DESCRIPTION

Detailed statistical information on the production and consumption of methyl Bromide in Indonesia is not available though its use is expanding rapidly. A survey is essential to help develop a successful programme for controlling this ODS.

This project will investigate the actual production, capacity, number of producers, inventory of applications, consumers and total consumption. The action plan is as follows: A survey team will be formed consisting of experts involved in Methyl Bromide production and applications. This team will design and implement the survey and provide a detailed report including proposals on alternatives to methyl bromide use. Following the survey, MOE will organize regional meetings of producers and consumers to discuss the problems in phaseout of methyl bromide. The final survey report and phaseout meeting will be organized by MOE. The schedule consists of the survey during August 1995 - February 1996, meetings and workshop during March - June 1996 and final report in July 1996. The budget of US \$ 130,000 includes the survey fees (USD \$ 50,000), organizing the regional and national meetings/workshops (USD \$ 50,000), internal travel expenses, telecommunications and other miscellaneous costs (USD \$ 30,000). Based on the decision on Methyl bromide taken at the Fifth Meeting of the parties to the Montreal Protocol in november 1993 in Bangkok, this project proposal is submitted by the government of Indonesia for approval at the 17th Executive Committee Meeting

## PROJECT COVER SHEET

|                               |                                                                                                                                      |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| COUNTRY:                      | MALAYSIA                                                                                                                             |
| PROJECT TITLE:                | Survey of Consumption of Methyl Bromide in Malaysia                                                                                  |
| SECTOR COVERED:               | Methyl Bromide                                                                                                                       |
| ODS USED IN SECTOR:           | Unknown                                                                                                                              |
| PROJECT IMPACT:               | Collection and analysis of basic information on consumption of methyl bromide to facilitate planning of a future phaseout programme. |
| PROJECT DURATION:             | One year                                                                                                                             |
| TOTAL PROJECT COST:           | US\$ 85,000.00                                                                                                                       |
| COST EFFECTIVENESS:           | N/A                                                                                                                                  |
| NATIONAL COORDINATING AGENCY: | Department of Environment                                                                                                            |
| IMPLEMENTING AGENCY:          | United Nations Development Programme                                                                                                 |

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### PROJECT SUMMARY

Methyl bromide has been used in Malaysia for many years now. Its use in agriculture and non-agriculture sector is expected to be on the increase. However, detailed statistical information on the importation, production and consumption of methyl bromide in Malaysia is not available in spite of its increased usage and importance. A national survey is essential to obtain more reliable figures as to importation and consumption that would be used to plan and develop a successful national programme for controlling the use of this substance.

This project will investigate the actual production, importation, and consumption of methyl bromide, inventory of applications, capacity, number of producers and consumers, identifying the essential sectors (Plant Quarantine and preshipment) and other applications such as soil and structures.

The action plan will cover the following;

- a. Design a survey questionnaire
- b. Conduct field surveys by team of national experts,
- c. Prepare detailed report, including proposals on alternatives to methyl bromide.
- d. Regional and National meetings of Methyl Bromide producers/consumers to discuss the problems in phaseout of methyl bromide.
- e. Final report to Excom.

#### ACTIVITY CALENDAR

The activity calendar for the proposed project shall be as follows:

| Activity                                                                        | Month             |
|---------------------------------------------------------------------------------|-------------------|
| Design survey questionnaire                                                     | August - Sept '95 |
| Field Suveys                                                                    | Oct' 95-March '96 |
| Compile Report                                                                  | April - May '96   |
| Meetings with user/importers/<br>producers Peninsular Malaysia<br>East Malaysia | April - May '96   |
| Final report to Excom                                                           | June-July '96     |

The budget of \$85,000.00 includes the fees and internal travel for a team of national experts, compiling the data, cost of organizing regional meetings with consumers, inventories, communication, report preparation and other expenses incurred during the project.

Once this project is approved and implemented, the information gathered will be used as the baseline data to monitor methyl bromide consumption, to plan and develop programmes for future phasing out and proposals for alternative chemicals or treatment would be sound.

## PROJECT COVER SHEET

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COUNTRY: Mexico

PROJECT TITLE: Institutional Strengthening Project  
(Phase 2)

SECTOR COVERED: All Sectors

PROJECT DURATION: 2 years

TOTAL PROJECT COST: 290,250 US\$ (includes US\$ 68,250  
Government contribution in kind)

PROPOSED MLF GRANT: 222,000 US\$

COORDINATING NATIONAL BODY: National Institute of Ecology (INE)  
(Ozone Protection Unit)

IMPLEMENTING AGENCY: UNDP

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This project proposal is submitted to extend institutional strengthening support to the OPU for two additional years of operation. The project will augment the significant contribution that has been catalyzed by the government of Mexico so far, and will allow the OPU to continue to plan, organize, direct and coordinate all activities required for the implementation of Mexico's strategy in all areas related to the Phaseout of Ozone Depleting Substances under the Montreal Protocol.

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### PROJECT OUTLINE

|                          |   |                                                                                                                                                                           |
|--------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| COUNTRY                  | : | URUGUAY                                                                                                                                                                   |
| SECTOR COVERED           | : | Solvents                                                                                                                                                                  |
| SECTORAL ODS CONSUMPTION | : | 9.6 tons/yr ODS (approx 7 tons ODP)                                                                                                                                       |
| PROJECT TITLE            | : | Elimination of Carbon Tetrachloride                                                                                                                                       |
|                          | : | use in the treatment of Cattle in Uruguay                                                                                                                                 |
| PROJECT DURATION         | : | One year                                                                                                                                                                  |
| PROJECT IMPACT           | : | This project will provide the basic information, and the means to contact the users, in the elimination of the feeding of CCl <sub>4</sub> to cattle for parasite control |
| PROPOSED BUDGET          | : | US\$15,000                                                                                                                                                                |
| IMPLEMENTING AGENCY      | : | UNDP                                                                                                                                                                      |
| NATIONAL COORDINATING    | : | Comision Tecnica Gubernamental de Ozono (COGO)                                                                                                                            |

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### PROJECT DESCRIPTION

The Technical Options Committee report on Carbon Tetrachloride makes mention of its use in the past as a veterinary medicine in controlling liver fluke in Sheep. It has been very recently found that, in Uruguay, about 3 tonnes or more of this toxic ODS material are still being fed to cattle in order to kill parasites. Apparently most of the 59 million cattle in Uruguay are being treated with currently appropriate veterinary medicine, but there are still some who need to eliminate the use of CCl<sub>4</sub>.

This project will investigate and define the actual users of CCl<sub>4</sub>, develop the material to contact them and notify them of the need to phase out, and provide them with the information required to make informed decisions regarding their options.

The action plan is as follows: A survey will be made using a local consultant to define the farmers who are still engaged in the practice of treating bovine parasites via oral doses of Carbon tetrachloride. During the survey, a bulletin/booklet will be prepared detailing the problems caused by the use of carbon tetrachloride, and showing the various options available to replace this use. Following the survey, the appropriate Drogarias, who sell the Carbon tetrachloride to the farmers, will be given notification that the packages to the farmers are to be labelled with appropriate information (To be prepared by the veterinary community), including the fact that the material will no longer be sold to these farmers for that purpose.

The bulletins/booklets will be included with the notification.

The schedule consists of the survey during August to October 1995, bulletin preparation during August to November 1995, and the notifications going out in early December, 1995. Phaseout should be complete by end of First quarter, 1996.

The budget of \$15,000 includes the fees and internal travel expenses of the local consultant(\$5,000), development, preparation, and printing of the bulletin/booklets (\$4,000), then the notification and followup needed to assure that the phaseout has in fact occurred (\$6,000). This last item includes all operating expenses.

# PROJECT COVER SHEET

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|                                    |                                                                                           |
|------------------------------------|-------------------------------------------------------------------------------------------|
| <b>COUNTRY:</b>                    | <b>REPUBLIC OF VENEZUELA</b>                                                              |
| <b>PROJECT TITLE:</b>              | Preparatory Assistance for the Domestic and Commercial Refrigeration Manufacturing Sector |
| <b>SECTOR COVERED:</b>             | Domestic/Commercial Refrigeration                                                         |
| <b>ODS USE IN SECTOR:</b>          | 1000 tons of CFC-12 per year (figures for 1993).                                          |
| <b>PROJECT DURATION:</b>           | One year                                                                                  |
| <b>TOTAL COST:</b>                 | \$US 30,000                                                                               |
| <b>IMPLEMENTING AGENCY:</b>        | UNDP                                                                                      |
| <b>COORDINATING NATIONAL BODY:</b> | FONDOIN                                                                                   |

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## PROJECT DESCRIPTION:

Preparatory Assistance Funds for the amount of US\$ 40,000 were approved at the 15th Executive Committee Meeting to allow UNDP to formulate projects in the domestic and commercial refrigeration sectors. As a result, seven project proposals were prepared which are being submitted at the 17th Executive Committee Meeting with combined budgets of US\$ 3.6 million.

Initially, all companies had selected HCFC-141b to replace the use of CFC-11 in foam-blowing. However, partly further to the decision taken by the Executive Committee at its 16th Meeting to favour the use of cyclopentane over the HCFC-141b solution, and partly further to the UNEP regional workshop given in Sao Paulo in May 1995, two companies (FRIGILUX and PINOVA) have changed the selected technology to cyclopentane. UNDP was therefore requested by the Government of Venezuela to change those project proposals, which resulted in additional visits to be charged to the preparatory assistance project.

As a result, additional funds are being requested (a) to cover minor over-expenditure over the previously approved amount (approximately US\$ 8,000) resulting from the above-mentioned additional consultancy visits and (b) to allow UNDP to continue to formulate projects for the remaining commercial refrigeration companies in Venezuela.