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Implementation of the Montreal Protocol

Seventeenth Meeting
Montreal, 26-28 July 1995

1995 UNDP WORK PROGRAMME AMENDMENTS

**AMENDMENTS TO THE
1995 UNDP WORK PROGRAMME**

PROJECT OUTLINE

COUNTRY: ARGENTINA
SECTORS COVERED: Foams
NATIONAL ODS CONSUMPTION: 4438.6 tonnes ODP in 1992
PROJECT TITLE: Project preparation assistance
DURATION: Eighteen months
PROJECT IMPACT: Preparation of projects in the foam sector
PROPOSED BUDGET: US\$ 70,000
IMPLEMENTING AGENCY: UNDP
NATIONAL COORDINATING AGENCY: Instituto Nacional de Tecnologia Industrial (INTI) y Oficina Programa Ozono (OPROZ)

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PROJECT DESCRIPTION

The Country Programme for the Republic of Argentina, approved at the 13th Meeting of the Executive Committee of the Multilateral Fund, establishes the schedule for elimination of the use of ODS.

In addition, the Country Programme stipulates that the Instituto Nacional de Tecnologia Industrial (INTI) will act as the technical organization for the identification and preparation of industrial reconversion projects, for which it will work in cooperation with the implementing agencies designated for the relevant sector.

At the 14th Executive Committee Meeting, held in Montreal in July 1994, a first amount of US\$ 70,000 was allocated to UNDP to prepare projects in the flexible foams sector, as well as in the rigid foams (insulation panels, general insulation and automotive industry).

So far, two projects have already been approved (combined budgets of US\$ 1,070,000) while eight projects are being presented at the 17th Executive Committee Meeting with combined budgets of approximately US\$ 3,267,000). Additional work is now required to finalize projects for the several remaining larger-scale ODS consumers as well as to prepare umbrella projects to cover the smaller-scale enterprises in both the flexible as well as the rigid foam sectors.

The Government of Argentina therefore requests a replenishment of US\$ 70,000 which will allow UNDP over an 18-month period to recruit international and National consultants and incur miscellaneous expenses in the preparation of new project proposals.

It should be noted that new project proposals which are envisaged for submission in 1995, already were mentioned in UNDP's 95 workplan, presented at the 16th Executive Committee Meeting. It is expected that the completed project proposals resulting from this request will be submitted for Executive Committee approval at its 18th and future meetings.

PROJECT OUTLINE

COUNTRY : BRAZIL
SECTORS COVERED : Foams, refrigeration, solvents, and halons
NATIONAL ODS CONSUMPTION : 8,918 ODP tonnes in 1993
PROJECT TITLE : Project preparation assistance
DURATION : 12 Months (Jul. 1995 - Jun. 1996)
PROJECT IMPACT : Preparation of technical assistance, demonstration and investment projects in the foams, MAC, solvents, and halons sectors.
PROPOSED BUDGET : US\$ 100,000
IMPLEMENTING AGENCY : UNDP
NATIONAL COORDINATING AGENCY : Department of Industrial Works/Ozone Working Group-GTO/Ministry of Industry, Trade and Tourism

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PROJECT DESCRIPTION

The country programme of Brazil was presented at the 13th Meeting of the Executive Committee in July 1994. It indicates the following ODP uses for the year 1993:

ODP tons

Domestic Refrigeration:	461
Commercial Refrigeration:	498
Mobile Airconditioning:	254
Servicing (Refrigeration):	4,535
Foams	1,950
Halons	68
Solvents	897
Aerosols:	255

Total: 8,918

An interagency agreement signed between UNDP, UNEP, UNIDO and the World Bank in December 1994 in Sao Paulo, stipulates that UNDP would focus its activities in the following sectors:

- foams (all subsectors)
- solvents (shared with UNIDO)
- halons (only halon banking)
- MAC (mostly recovery/recycling)

In addition, one exceptional project in the manufacture of domestic chest freezers was also attributed to UNDP.

A preparatory assistance project of US\$ 100,000 was already at the 11th Executive Committee Meeting in November 1993. The activities undertaken with these funds include the following:

- assistance to carry out the sectoral studies undertaken to finalize the country programme. Project identification in each respective sector was undertaken in this connection.
- one ongoing project in the foam sector (budget of US\$ 370,000) was approved in March 1994.
- Four projects in foams, two in solvents and one in domestic chest freezers (estimated combined budgets of US\$ 2,152,944) are being presented at the 17th Executive Committee Meeting for approval.

As can be seen, preparatory assistance activities picked up considerably in January 1995, i.e. after the above-mentioned inter-agency agreement was reached. Several National Consultants were recruited and missions were undertaken in the foams, refrigeration, solvents, halons and MAC sectors. A replenishment of the preparatory assistance funds is necessary to allow UNDP to continue its activities beyond June 1995 in these sectors, and finalize the project proposals that were indicated in the 1995 Workprogramme presented at the 16th Executive Committee Meeting in March 1995.

Projects resulting from this request will be presented at the 18th and future Executive Committee Meetings. Funds will be utilized to extend the contracts of the National Consultants (US\$ 40,000), field the various missions by International planned in the various sectors (US\$ 50,000) and miscellaneous expenses such as local travel within Brazil (US\$ 10,000).

PROJECT OUTLINE

COUNTRY:	CHINA
SECTORS COVERED:	All sectors
NATIONAL ODS CONSUMPTION:	60,352 ODP Tonnes in 1991
PROJECT TITLE:	Project preparation assistance
DURATION:	9 months (Aug. 95 - April 96)
PROJECT IMPACT:	Preparation of technical assistance /investment projects in all sectors
PROPOSED BUDGET:	US\$ 100,000
IMPLEMENTING AGENCY:	UNDP
NATIONAL COORDINATING AGENCY:	National Environmental Protection Agency (NEPA)

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PROJECT DESCRIPTION

The China Country program for the phaseout of ODS in accordance with the Montreal Protocol was approved in March 1993. China's phaseout strategy calls for a total ODS phaseout by the year 2010. However, with China's commitment to the Protocol, earlier than scheduled phaseout dates are anticipated for the halon, solvents and aerosol sectors. The close collaboration between NEPA, the line Ministries and the UNDP has resulted in the speedy implementation of numerous projects to date.

At the 15th ExCom meeting in December 1995, a \$100,000 project preparation funds request for China was approved, to prepare projects for submission to the 16th and 17th ExCom. As a result of that, the following projects will be submitted for approval to the 17th ExCom in July 1995:

- 1) Domestic Refrigeration Sector:
2 Projects totalling \$12,200,900 with a total ODP phaseout of 1,230 tonnes. (Three other projects were identified for which the refrigerant components have already been formulated.)
- 2) Foams Sector:
5 projects totalling \$2,501,600 with a total ODP phaseout of 447 tonnes.
- 3) In addition, \$20,000 of these funds was used for a solvent sector strategy paper and workshop during the first quarter of 1995. Another \$7,000 was used to cover the UNDP Solvent Expert's mission costs associated with this Strategy.

As of May 1995, these funds have been depleted, with the direct outcome of projects phasing out more than 1,600 ODP tonnes.

China's future implementation schedule involves several projects currently in the formulation stage for approval at the 18th and 19th ExCom meetings. The funds currently requested will be used to cover consultancy and mission costs directly associated with continued preparation of these projects.

PROJECT PROPOSAL

COUNTRY : CHINA
SECTOR COVERED : Refrigeration (Large food stores)
NATIONAL ODS CONSUMPTION : 7,500 MT/YR CFC-12 (1991 est.)
PROJECT TITLE : Demonstration Project
DURATION : One Year
PROJECT IMPACT : 10.5 MT ODS/Year
PROPOSED BUDGET : USD \$ 76,000
IMPLEMENTING AGENCY : UNDP
NATIONAL COORDINATING AGENCY: NEPA AND Ministry of Internal
Trade (MIT) in cooperation
USEPA.

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PROJECT DESCRIPTION

UNDP proposes to cooperate with USEPA, China's NEPA and MIT in the implementation of China's pilot project to reduce CFC use in the refrigeration sector through recycling and improved servicing and maintenance practices. This project in China's commercial refrigeration servicing sub-sector will attempt to demonstrate the potential benefits of reducing CFC consumption in a select group of food stores in the Beijing area. The results of this project will be shared with other facilities that could adopt the CFC reduction measures without further outside funding.

UNDP will support this project by producing and shipping equipment including 30 CFC leak detectors and 4 refrigerant recovery machines, arranging a local technical support contract for initial equipment maintenance and servicing, arranging for a workshop site through coordination with the UNDP field office, and supporting workshop participants travel.

Attachment:

- procure 30 leak detectors	\$ 12,000
- procure 4 CFC recycling machines	8,000
- equipment shipping and transportation	2,000
- maintenance of existing equipment for for (30) stores	26,400
- support for participant training/travel	16,500
- 2 person trips (EPA)	11,000

Total	<u>\$ 75,900</u>
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PROJECT OUTLINE

COUNTRY : COLOMBIA
SECTOR COVERED : MAC, Commercial Refrigeration,
Halon & Solvents.
NATIONAL ODS CONSUMPTION : 2588 Tonnes ODP in 1993.
PROJECT IMPACT : Identification, Preparation, &
finalization of Industrial
conversion projects in the above
mentioned sectors.
PROPOSED BUDGET : US \$ 35,000
IMPLEMENTING AGENCY : UNDP
NATIONAL COORDINATING AGENCY: Ministerio del Medio Ambiente

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PROJECT DESCRIPTION

The Colombian Country Program was presented during the 12th Executive Committee Meeting in March 1994. Colombia's ODS consumption in 1993 was 2588 Tonnes ODP comprising 22.9 % (594 ton.ODP) used in refrigeration, 1% (26 ton.ODP) in air conditioning, 40.8% (1057 ton ODP) in maintenance, 11.4% (297 ton.ODP) in polystyrene and polyurethane foams, 11.3% (295 ton ODP) in halons, 0.7 % (18 ton ODP) in cleansing agents and 11.6% (301 ton ODP) in pesticides.

A former preparatory assistance request of US\$ 100,000 was approved at the 12th Executive Committee Meeting in March 1994. The activities undertaken with these funds include the following:

- projects prepared in the domestic refrigeration sector (CORELSA, ICASA, HACEB, POLARIX, ANDINOS) for US\$ 4,808,900. One additional project (CHALLENGER) for US\$ 166,000 is being proposed at the 17th Executive Committee meeting.
- six projects in the commercial refrigeration projects three of which were already approved for US\$ 1,075,507 (INDUCOL, INDUFRIAL and WONDER) and three being presented at the 17th Executive Committee Meeting for about US\$ 429,000 (FRIOMIX, SUPER NORDICO, WESTELL).
- one project in recovery/recycling of refrigerant for US\$ 886,000 is being submitted at the 17th Executive Committee Meeting.
- projects prepared for the polystyrene foam (AJOVER, INALDES) were approved for US\$ 1,072,000.
- preparatory work has been undertaken in the solvents and halons sectors.

As can be seen, preparatory assistance activities so far has resulted in a very large numbers of projects prepared. While the number of projects to be prepared for the next year is not likely to be large, follow-up is needed for the following activities:

- refrigeration: a technical assistance proposal to cover the small-scale ODS users in the commercial refrigeration sector.
- demonstration project in MAC
- halons: project for halon banking
- solvents: small use of CFC-113 was identified for which project might be formulated.

A replenishment is therefore necessary to allow UNDP to continue its activities beyond June 1995 in these sectors. Most of these proposals will probably be presented at the 19th and subsequent meetings during 1996.

PROJECT OUTLINE

Country: ETHIOPIA
Sectors covered: Halons, Refrigeration,
Foams and Solvents
National ODS consumption: About 700 metric tonnes ODP/year
Project title: Project Preparation assistance
Duration: One year
Project impact: Preparation of projects in the above
mentioned sectors
Proposed budget: US \$50,000
Implementing Agency: UNDP
National Coordinating Agency: National Meteorological Services
Agency, Ministry of Natural Resources
Development and Environmental
Protection

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PROJECT DESCRIPTION

The country programme for Ethiopia is expected to be submitted at the 17th Meeting of the Executive Committee of the Multilateral Fund. Preliminary estimates of the ODP consumption by sector is as follows:

- 100 ODP tonnes/year in the halons sector (estimated)
- 360 ODP tonnes/year in the refrigeration sector (estimated)
- 100 ODP tonnes/year in the foams sector (estimated)
- 440 ODP tonnes/year in the solvents sector (estimated)

During the UNEP network meeting for English speaking African countries held in Nairobi in May 1995, discussions were held further to which the Government of Ethiopia requests that the UNDP includes in its work programme, the provision for the preparation of projects in the above mentioned sectors.

Project proposals will be formulated in the various sectors and they will be presented at the 18th, 19th, and 20th Executive Committee Meetings.

The funds requested would be used during a period of one year to cover costs in relation to international consultants (US \$ 28,000), national consultants (US \$17,000), and other miscellaneous expenses and local travel (US \$5,000).

PROJECT OUTLINE

COUNTRY :	MALAWI
SECTOR COVERED :	Refrigeration and Air - Conditioning
SECTORAL ODS CONSUMPTION :	60 ODP tonnes in 1993
NATIONAL ODS CONSUMPTION :	290 m.t. tonnes/year
PROJECT TITLE :	Preparatory Assistance for a Training Programme on Refrigeration and Air-Conditioning
PROJECT DURATION :	Six months
PROJECT IMPACT :	Training local refrigeration entrepreneurs good maintenance practice CFC consumption
PROPOSED BUDGET:	US\$ 17,000
IMPLEMENTING AGENCY :	UNDP
NATIONAL COORDINATING AGENCY:	Ministry of research & Environmental Affairs.

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PROJECT DESCRIPTION

The Country programme for the Republic of Malawi, approved by the Executive Committee of the Multilateral Fund in March 1994 establishes the schedule for the elimination of the use of Ozone Depleting Substances (ODS).

The 1994 data report to the Ozone Secretariat mentions about the use of approximately 60 ODP tons of CFC's both in the refrigeration and air conditioning sectors. According to the Country Programme one of the projects which is identified as an activity towards the implementation of the Montreal Protocol in Malawi is a training programme on refrigeration and air-conditioning. The training on refrigeration and air-conditioning aims at reducing emissions of CFC's into the atmosphere through good maintenance practices.

The budget of US \$ 17,000 will be used to prepare a project proposal in the field described in the above paragraph. The funds would be used for international and national consultants. The project proposal would be presented at the 18th Meeting of the Executive Committee.

PROJECT OUTLINE

COUNTRY	:	MEXICO
SECTORS COVERED	:	Foams, Halons, Refrigeration, Solvents
NATIONAL ODS CONSUMPTION	:	10,148 tonnes in 1989
PROJECT TITLE	:	Project preparation assistance
DURATION	:	Eighteen Months (till Dec 1996)
PROJECT IMPACT	:	Preparation of projects in the various sectors
PROPOSED BUDGET	:	US\$ 50,000
IMPLEMENTING AGENCY	:	UNDP
NATIONAL COORDINATING AGENCY	:	Ozone Protection Unit, Instituto Nacional de Ecologia (INE)

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PROJECT DESCRIPTION

Mexico's ODP consumption in 1989 was 10,148 tonnes comprising refrigeration/AC at 4,796 tonnes (47.3%), foams at 1,629 tonnes (16.1%), solvents at 1,220 tonnes (12.0%), halons at 1,200 tonnes (11.8%), aerosols at 993 tonnes (9.8%) and sterilants at 310 tonnes (3.0%).

Mexico's Country Programme (CP) for the reduction of ODS was prepared with the assistance of the World Bank and USEPA, and was approved at the 6th Executive Committee Meeting in February 1992. USEPA is also assisting Mexico in the design and implementation of projects in the refrigeration and solvents sectors.

Prior preparatory assistance funds requested by UNDP has resulted in the preparation of projects in the domestic refrigeration sector (Combined budgets of US\$ 7.8 million). These projects were approved at the 15th Executive Committee Meeting. Furthermore, through cooperation with US-EPA, two solvents projects were approved with combined budgets of US\$ 0.24 million.

The Government of Mexico has recently requested UNDP to step up its efforts in formulation of projects for the foam, halons and solvents sectors. These funds should allow UNDP to continue its activities in Mexico in these sectors, and submit project proposals for the 18th Executive Committee Meeting, fully consistent with UNDP's 1995 workplan, as well as for future meetings in 1996. As usual, the funds will be used for the recruitment of National and International Consultants.

PROJECT OUTLINE

COUNTRY: NIGERIA
SECTORS COVERED: Foams
NATIONAL ODS CONSUMPTION: 1,447.407 MT in 1991
PROJECT TITLE: Project Preparation Assistance
PROJECT DURATION: One Year
PROJECT IMPACT: Preparation of projects in the foam sector.
PROPOSED BUDGET: US\$ 50,000
IMPLEMENTING AGENCY: UNDP
NATIONAL COORDINATING AGENCY: Federal Environmental Protection Agency, Abuja

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PROJECT DESCRIPTION

The Country Programme for the Republic of Nigeria will be presented at the 18th Meeting of the Executive Committee of the Multilateral Fund, and will establish the schedule for elimination of the use of ODS.

ODS consumption in the foam sector is estimated at about 419 tons in 1991. During the UNEP Network Meeting for English-speaking African Countries held in Nairobi in May 1995, discussions were held, further to which the Government of Nigeria requests that UNDP includes in its work programme, provision for the preparation of projects in the foam sector.

A National Consultant in the foam sector will be recruited on a two day per week basis for a duration of three to six months, and will be assisted by UNDP's Foam Sector Expert, in order to formulate project proposals that will be presented at the 18th and subsequent Executive Committee Meetings.

The funds requested would be used during a period of 1 year to cover costs in relation to International Consultants (US\$ 30,000) and National Consultants (US\$ 15,000) as stipulated above. In addition US\$ 5,000 will be needed for miscellaneous expenses such as local travel within Nigeria.

PROJECT OUTLINE

COUNTRY : TANZANIA
SECTORS PROJECT TITLE : Project Preparation Assistance
SECTOR COVERED : Aerosols, Refrigeration and Foams
DURATION : one year
NATIONAL ODS CONSUMPTION : 202 Tonnes ODP in 1991
PROJECT IMPACT: Preparation projects in the above-mentioned sectors.
PROPOSED BUDGET : US \$ 47,000
IMPLEMENTATION AGENCY : UNDP
NATIONAL COORDINATING AGENCY: Division of Environment (Ministry of Tourism, natural resources and Environment.)

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PROJECT DESCRIPTION

Tanzania ratified the Montreal Protocol in April 1993, and the Country Programme for Tanzania is expected to be completed at the end of 1995. Preliminary figures indicate the following estimates for ODP consumption in the various sectors:

- a) 60 ODP tonnes/year in the aerosol sector
- b) 110 ODP/tonnes/year in the refrigeration sector
- c) 27 ODP tonnes/year in the foams sector

At the ODSINET 1st Workshop meeting for English-speaking African countries held in May 1995, preliminary discussions were held between UNDP and the Tanzania delegation on the Tanzania phaseout programme. In anticipation of the approval of the country program, project preparation assistance has been requested from UNDP by Tanzania for the above sectors.

The funds requested will be broken down to cover administrative and mission costs as follows:

3 International Consultants	\$30,000
3 Local Consultants	\$15,000
Administration and coordination	\$ 2,000
TOTAL	\$47,000

The projects prepared are to be submitted in 1996 at the 19th and 20th ExCom meetings respectively.

PROJECT OUTLINE

COUNTRY: Uganda
SECTOR COVERED: Recovery/Recycling of Refrigerant
NATIONAL ODS CONSUMPTION: 16.3 tonnes ODP in 1993
PROJECT TITLE: Project Preparation Assistance
PROJECT DURATION: Six months
PROJECT IMPACT: Preparation of Projects in the above sector.
PROPOSED BUDGET: US \$17,000.00
IMPLEMENTING AGENCY: UNDP
NATIONAL COORDINATING AGENCY: ODS Unit, Department of Environment
Ministry of Natural Resources

PROJECT DESCRIPTION

The Country Programme for Uganda approved at the 13th Meeting of the Executive Committee of the Multilateral Fund, establishes the schedule for elimination of the use of ODS.

The Country Programme mentions about the use of 16.3 tonnes/year of CFC's for servicing in the refrigeration sector. During the UNEP Network Meeting for English-Speaking African Countries held in Nairobi in May 1995, discussions were held, further to which the Government of Uganda requests that UNDP includes in its workprogramme, provision for the preparation of projects in the above-mentioned sector.

A National Consultant will be recruited on a one day per week basis for a duration of three to six months, and will be assisted by UNDP's Sector Expert, in order to formulate a project proposal that will be presented at the 18th or 19th Executive Committee Meetings.

The funds requested would be used during a period of 6 months to cover costs in relation to International Consultants (US \$12,000) and National Consultants (US \$5,000) as stipulated above.

PROJECT OUTLINE

COUNTRY : ZAMBIA
SECTORS COVERED : Solvents, Foams, Refrigeration
NATIONAL ODS CONSUMPTION : 40 ODS tonnes in 1993 (revised estimate)
PROJECT TITLE : Project Preparation Assistance
DURATION : 9 months
PROJECT IMPACT : Project preparation on solvents, foams, and refrigeration sectors.
PROPOSED BUDGET : US \$ 30,000
IMPLEMENTING AGENCY : UNDP
NATIONAL COORDINATING AGENCY: Ministry of Environment and Natural Resources

PROJECT DESCRIPTION

The Zambia Country Programme (CP) for the phaseout of Ozone Depleting Substance (ODS) under the Montreal protocol was prepared with the assistance of UNEP. It was presented and approved at the 8th Executive Committee Meeting (Montreal, October 1992). In its country programme, Zambia presented an accelerated ODS phaseout scenario under which total ODS consumption will be phased-out by year 2000.

Zambia designated UNEP as implementing agency for the "Institutional Strengthening" project approved at the 9th Executive Committee Meeting in March 1993. For the training programme specified in the CP, the government requested UNIDO to implement this activity; accordingly, UNIDO received approval at the 16th Executive Committee Meeting in March 1995 to conduct a training programme for refrigeration sector service technicians amounting to \$ 82,000.

The Government, in its CP, designated UNDP to design and implement investment projects in the solvents, foams and refrigeration sectors. The government is also revising the ODS database in the CP. While the solvents sector figure of 20 ODS tonnes seems accurate, foams sector consumption is higher than the originally estimated 2 ODS tonnes. Further, due to data collection difficulties, ODS consumed in the refrigeration sector could not be estimated when the CP was prepared and is now estimated at around 20 ODS tonnes. Thus total ODS consumption in 1993/1994 is estimated at around 40 tonnes/annum.

The government has requested UNDP to submit to the 17th Executive Committee Meeting a project preparation request for ODS phaseout investment project proposals in the foams, solvents and refrigeration sectors. These projects will effectively eliminate all ODS use in Zambia. The US \$ 30,000 will be utilized to recruit international /national consultants to work with the national staff in preparing sectoral proposals. The completed project proposals will be submitted for Excom approval at its 17th and 18th meetings.