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Seventeenth Meeting
Montreal, 26-28 July 1995

UNDP PROGRESS REPORT

EXECUTIVE COMMITTEE OF THE MULTILATERAL FUND FOR THE IMPLEMENTATION OF THE MONTREAL PROTOCOL

(17th Meeting, 26-28 July 1995, Montreal)

PROGRESS REPORT OF THE UNITED NATIONS DEVELOPMENT PROGRAMME

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Revised: 28 June 1995

UNDP PROGRESS REPORT

A. OPERATIONAL/POLICY DEVELOPMENTS

1. At the 15th Executive Committee Meeting (13-16 December 1994, Montreal), UNDP received approval for 57 projects/activities amounting to \$24.38 million. Thus, as of end-December 1994, UNDP's cumulative 1991-94 project allocations amounted to \$79.58 million. UNDP did not submit any project proposal requests to the 16th Executive Committee Meeting in March 1995.

2. UNDP's approved activities (as of end-May 1995) are in the following categories:

(\$ millions):

	<u>1991-93</u>	<u>1994</u>	<u>TOTAL</u>
CPG (country prog. preparation)	1.01	-	1.01
DEM (demonstration projects)	0.41	1.67	2.08
INS (institutional strengthening)	4.04	1.24	5.28
INV (investment projects)	10.61	51.17	61.78
PRP (project preparation)	1.07	1.31	2.38
TAS (technical assistance)	4.53	1.18	5.71
TRA (training)	1.34	-	1.34
	===	===	===
TOTAL	23.01	56.57	79.58

3. UNDP's cumulative disbursements (direct expenditures and obligations) increased from \$17.31 million in late-1994 to \$27.51 million as of end-May 1995. UNDP has thus disbursed 34.6% of all funds received. Disbursements by category are:

(\$ millions)

	<u>1991-93</u>	<u>1994</u>	<u>TOTAL</u>
CPG (country prog. preparation)	1.00	n.a.	1.00
DEM (demonstration projects)	0.41	0.27	0.68
INS (institutional strengthening)	1.73	0.14	1.87
INV (investment projects)	8.15	10.59	18.74
PRP (project preparation)	1.03	0.83	1.86
TAS (technical assistance)	1.91	0.49	2.40
TRA (training)	0.96	n.a.	0.96
	===	===	===
TOTAL	15.19	12.32	27.51

4. From project approvals of \$23.01 million during 1991-93, \$15.19 million was expended which translates into a delivery rate of 66%. Since over half of UNDP's cumulative work programme, primarily comprising investment projects, was approved in second-half 1994, implementation of many of those projects is ongoing and expenditures will mainly be reflected in second-half 1995.

5. The sectoral disaggregation of approved UNDP activities and the ODS tonnes to be phased out are as follows:

	Budgets (\$ mill.)	%	ODS Tonnes Phaseout
Aerosols	0.51	0.6	25
Foams	35.93	45.1	6,177
Halons	2.04	2.6	-
Methyl bromide	0.09	0.1	-
Refrigeration/AC/MAC	26.70	33.6	1,912
Solvents	4.44	5.6	427
Several	9.87	12.4	-
	== =	== =	== =
TOTAL	79.58	100.0	8,541

6. The "Several" category above, as used by the Fund Secretariat, comprises ODS reconnaissance surveys, country programme preparation, institutional strengthening, project preparation assistance, small-scale industry data surveys, and global projects on policy, planning and technology assessment.
7. Under the Montreal Protocol, UNDP is at present active in the following 32 countries:
AFRICA/MIDDLE EAST (7):
Egypt, Ghana, Iran, Jordan, Kenya, Mauritius, Nigeria
ASIA/PACIFIC (10):
Bangladesh, China, India, Indonesia, Malaysia, Pakistan, Philippines, Sri Lanka, Thailand, Vietnam
LATIN AMERICA/CARIBBEAN (15):
Argentina, Brazil, Chile, Colombia, Costa Rica, Cuba, Ecuador, Guatemala, Jamaica, Mexico, Panama, Peru, Trinidad & Tobago, Uruguay, Venezuela
8. In addition, UNDP has requested project preparation funds at the 17th Executive Committee Meeting for the first time for the following six African low-ODS consuming countries: Ethiopia, Gambia, Malawi, Tanzania, Uganda and Zambia.

Projects/Activities Operationally Completed

9. UNDP, as of end-May 1995, had completed a total of 97 activities including project preparation (20). The remaining 77 projects comprise:
- ODS SURVEYS (4):**
Bangladesh, Costa Rica, India (small-scale), Iran
- COUNTRY PROGRAMMES (12):**
Bangladesh, China, Costa Rica, Cuba, India, Indonesia, Iran, Kenya, Philippines, Sri Lanka, Uruguay, Venezuela
- NATIONAL TRAINING, TECH. ASSISTANCE & DEMONSTRATION PROJECTS (35):**
Most countries
- REGIONAL WORKSHOPS & DEMONSTRATION PROGRAMMES (6):**
Asia/Pacific, Latin America/Caribbean, Middle East/Africa
- INVESTMENT PROJECTS (20):**
China (2), Egypt (6), Malaysia (11), Thailand (1)

Projects/Activities Operationally Completed: December 1994 to early-June 1995

10. The following 26 projects/activities were operationally completed between December 1994 and early June 1995:

a) **ARG/SEV/14/PRP/12: Argentina: Project preparation assistance**

Date of approval: Sept. 1994

Proposed completion date: 3Q95

Approved funding: \$70,000

Actual completion date: 2Q95

Expenditures/obligations: \$70,000

At Government request, UNDP's foam consultants visited 11 rigid and flexible PUF plants over the period Aug 94 - May 95. Two projects approved in 1994 (Prensiplast, Cinter) are ongoing. A local subcontract with INTI was established and their services have proven to be exceptionally efficient and of high quality. Nine investment projects amounting to \$4.6 million have been formulated, and are being submitted to the 17th ExCom Meeting for approval.

b) **BRA/SEV/11/PRP/10: Brazil: Project preparation assistance**

Date of approval: Nov. 1993

Proposed completion date: 4Q94

Approved funding: \$100,000

Actual completion date: 2Q95

Expenditures/obligations: \$100,000

Based on an interagency agreement between UNDP, UNEP, UNIDO and the World Bank in December 1994, project preparation activities accelerated over the reporting period. National consultants were recruited, visits by international experts took place in the foams, halons, MAC, refrigeration and solvents sectors. One foam project was approved in March 1994, and 7 investment projects comprising four additional foam projects, two solvents projects and one refrigeration project with a combined budget of \$ 1.95 million are being presented for approval at the 17th ExCom Meeting.

c) **CPR/FOA/10/INV/52: China: Phaseout CFC-11 in flexible polyurethane foam at Tianjin Polyurethane Plastics Factory**

Date of approval: June 1993

Proposed completion date: 3Q94

Approved funding: \$1,080,000

ODS phaseout: 180 tonnes/annum

Actual completion date: 2Q95

Expenditures/obligations: \$1,080,000

This combined demonstration/investment project was implemented under the national execution modality with UNOPS providing assistance in the international procurement of goods and services. The certificate of completion was issued in April 1995 when 180 tonnes/yr of CFC-11 was eliminated through conversion to methylene chloride on its continuous slabstock line. For the vertifoam line, an Envirocure (rapid-cooling) unit has been installed to allow the use of alternative blowing agents. The original plan of introducing the Dow long range polyol as an alternative blowing agent was not implemented due to non-availability of this polyol in Asia. As an interim solution, the use of methylene chloride on the vertifoam line has been successfully tried out. The plant will serve as a technology demonstration centre for other enterprises interested in switching to ODS alternatives. The plant was officially commissioned on 18 May 1995 with the Hand-over Protocol signed at a ceremony attended by over 100 participants from Government and industry, this being the first CFC phaseout investment project completed in China under the Multilateral Fund.

d) **CPR/FOA/13/INV/73: China: Eliminate CFC-12 in the manufacture of extruded polyethylene foam sheet at the Danshui Huaya Plastics Industries Co.**

Date of approval: July 1994	ODS phaseout: 160 tonnes/annum
Proposed completion date: 4Q95	Actual completion date: 2Q95
Approved funding: \$241,000	Expenditures/obligations: \$241,000

LPG is the adopted CFC-replacement in the production of extruded foam sheet. The project financed the retrofitting cost of the extruder, installation of the gas storage and piping system as well as the necessary safety and ventilation systems. Production and safety training was also provided. 160 tonnes/yr of CFC-12 have been eliminated. UNDP and UNOPS provided close expert advice and monitoring throughout project implementation. The certificate of completion was signed by all parties in April 1995 with formal project commissioning scheduled for end-June 1995.

e) **CPR/SEV/15/PRP/106: China: Project preparation assistance**

Date of approval: Dec. 1994	
Proposed completion date: 4Q95	Actual completion date: 2Q95
Approved funding: \$100,000	Expenditures/obligations: \$100,000

UNDP foam consultants visited China in early December 1994 for project formulation. 9 XPE/XPS projects were identified and 4 have been finalized and presented to the 17th ExCom for approval. 5 domestic refrigerator manufacturing companies were also visited. In early April 1995, two UNDP refrigeration consultants together with MPU staff completed the formulation of two domestic refrigeration projects identified earlier during 1994, and they have been submitted to the 17th ExCom for approval; one of these projects covers the largest refrigerator plant in China. In addition, formulation of the refrigerant component for 3 recently identified enterprises has been completed. Funds were also provided for the preparation of the solvent sector strategy; this strategy was discussed at the 12-13 June 1995 China sectoral strategy meeting in Xi'an.

f) **COL/SEV/12/PRP/03: Colombia: Project preparation assistance**

Date of approval: March 1994	
Proposed completion date: 2Q95	Actual completion date: 2Q95
Approved funding: \$100,000	Expenditures/obligations: \$100,000

Several visits were made by UNDP consultants in foam, refrigeration, halon and recovery/recycling between March 1994 and April 1995. Approvals were obtained in 1994 for 5 projects in the foam and refrigeration sectors with a combined budget of \$7.0 million. An additional \$1.5 million in recovery/recycling and refrigeration manufacturing projects is being presented for approval at the 17th ExCom Meeting.

g) **EGY/FOA/08/INV/06: Egypt: Phaseout CFC-11 in the manufacture of molded, semi-rigid and rigid polyurethane foam at the Taki-Vita Factory**

Date of approval: Oct. 1992	ODS phaseout: 50 tonnes/annum
Proposed completion date: 1Q95	Actual completion date: 2Q95
Approved funding: \$ 352,500	Expenditures/Obligations: \$352,500

The company selected a water-blown system in combination with HCFCs as the replacement choice for its three production lines. This project was among the first investment projects approved by the Multilateral Fund. Project financing included the cost of replacement high pressure foaming units and associated equipment, production trials and personnel training. The project eliminated 50 tonnes/yr of CFC-11 and was commissioned in early April 1995.

h) **GHA/FOA/08/TAS/03: Ghana: Technical Assistance for technology transfer for CFC-11 phaseout in flexible foam**

Date of approval: Oct. 1992

Proposed completion date: 4Q94

Actual completion date: 2Q95

Approved funding: \$85,000

Expenditures/obligations: \$70,186

A UNDP foams sector consultant made several visits in 1994 during which on-the-job training and technical advice was provided to five plants comprising four continuous and one single block foam plants. Testing equipment to measure fume levels and to carry out safety audits was specified and purchased. Factory inspection staff undertook a technology transfer evaluation visit to the USA in Oct. 94. Awaiting final expenditure statements for the project.

i) **GUA/SEV/11/PRP/05: Guatemala: Project preparation assistance**

Date of approval: Nov. 93

Proposed completion date: 4Q94

Actual completion date: 2Q95

Approved funding: \$30,000

Expenditures/obligations: \$30,261

Following a visit by a UNDP foam consultant and two visits by a UNDP refrigeration consultant, two project proposals in the commercial refrigeration manufacturing sector amounting to \$0.35 million were prepared and approved at the 15th ExCom Meeting.

j) **IND/SEV/11/TAS/11: India: Survey of ODS use in small-scale and informal sectors, data base generation and ODS transition management planning**

Date of approval: Nov. 93

Proposed completion date: 4Q94

Actual completion date: 2Q95

Approved funding: \$120,000

Expenditures/obligations: \$108,000

This activity was implemented by the National Small Industries Corporation (NSIC). UNDP MPU staff assisted in the design of the survey form. A total of 8,967 units were surveyed in all sectors. The final survey report was completed in late-May 1995 and was received by UNDP in early June 1995. It is being reviewed by UNDP, UNEP and other concerned agencies. Following receipt of comments, it will be determined whether any additional explanations are required. It is proposed that the final survey report be presented to the 18th ExCom Meeting. Awaiting final expenditure statements for the project.

k) **IRA/SEV/08/PRP/05: Iran: Project preparation assistance**

Date of approval: Oct. 92

Proposed completion date: 4Q93

Actual completion date: 1Q95

Approved funding: \$17,935

Expenditures/obligations: \$17,935

At the request of the Government and as approved at the 16th ExCom Meeting, the remaining project preparation funds under this project (\$32,065 + support costs) have been transferred to UNIDO. The UNDP expenditure was for project identification during and immediately following Country Programme preparation.

l) **MAL/FOA/11/INV/15: Malaysia: Eliminate CFC-11 in the manufacture of integral skin polyurethane foam at Key Asset Co.**

Date of approval: Nov. 1993

ODS phaseout: 50 tonnes/annum

Proposed completion date: 4Q94

Actual completion date: 1Q95

Approved funding: \$690,000

Expenditures/obligations: \$ 690,000

Key Asset is the first enterprise engaged in production of integral skin foam products to switch away from CFCs. It has three production lines and a combination water-blown system and HCFC-22 are employed depending on applications. The project financed the

replacement high pressure foaming units, a pre-mixing station, production trials and personnel training. In its pioneering efforts, the enterprise encountered difficulties in handling the new systems and substances and initially had a high product rejection rate. This has now improved and the project was declared successfully completed in February 1995, eliminating 50 tonnes/yr of CFC-11.

m) **MAL/FOA/12/INV/24: Malaysia: Phaseout use of CFC-11 in integral skin, spoiler and moulded polyurethane foam at P.U. Tech**

Date of approval: March 1994	ODS phaseout: 24 tonnes/annum
Proposed completion date: 2Q95	Actual completion date: 2Q95
Approved funding: \$198,000	Expenditures/obligations: \$183,000

The enterprise switched to an all water-blown system for its moulded foam operation, and to HCFC-141b for its integral skin foam line. The project financed the cost of a pre-mix station, production trials and training. 24 tonnes/yr of CFCs have been phased out. The project was completed on schedule and its commissioning took place in early April 1995. Awaiting final expenditure statements for the project.

n) **MAL/FOA/12/INV/26: Malaysia: Phaseout CFC-11 use in flexible PUF at Pexafoam Co.**

Date of approval: March 1994	ODS phaseout: 120 tonnes/annum
Proposed completion date: 2Q95	Actual completion date: 1Q95
Approved funding: \$195,000	Expenditures/obligations: \$195,000

Pexafoam is one of the largest slabstock manufacturers in Malaysia. Under the project, the use of CFC-11 was replaced by methylene chloride, eliminating 120 tonnes/yr of CFC-11 consumption. The project financed the incremental retrofitting cost of a foaming station, associated equipment and accessories, improved ventilation/exhaust and safety systems, and production trials, production and safety training. The project was declared substantially completed in February 1995, with minor corrective safety measures completed in April 1995.

o) **MAL/FOA/12/INV/27: Malaysia: Phaseout CFC-11 use in flexible PUF slabstock at N.L.Y. Co.**

Date of approval: March 1994	ODS phaseout: 55 tonnes/annum
Proposed completion date: 2Q95	Actual completion date: 1Q95
Approved funding: \$130,000	Expenditures/obligations: \$130,000

The company utilized methylene chloride to eliminate 55 tonnes/yr of CFC-11 in its flexible foam production system. The project provided the necessary metering and storage systems for methylene chloride, improved ventilation/exhaust and safety systems, production trials and training. The plant was inspected in February 1995 and the project was declared substantially completed, slightly ahead of schedule.

p) **MAL/FOA/13/INV/35: Malaysia: Phaseout CFC-11 use in flexible PUF at Phoenix Base Co.**

Date of approval: July 1994	ODS phaseout: 61 tonnes/annum
Proposed completion date: 4Q95	Actual completion date: 2Q95
Approved funding: \$165,000	Expenditures/obligations: \$165,000 +

The conversion to a methylene chloride system to phaseout 61 tonnes/yr of CFC-11 in the production of slabstock was declared completed in May 1995. The project financed the necessary metering and storage systems, ventilation and safety systems, production trials and training. Taking into account the plant layout and production areas, a more appropriate exhaust and ventilation system was found necessary. It resulted in a slight cost over-run and the request is under review. The project budget may thus be exceeded slightly. The project was completed half a year ahead of schedule.

q) **MAL/SOL/11/INV/18: Malaysia: Eliminate TCA in metal cleaning at Ngai Cheong Metal Industries**

Date of approval: Nov. 1993

ODS phaseout: 23 tonnes/annum

Proposed completion date: 4Q94

Actual completion date: 2Q95

Approved funding: \$63,480

Expenditures/obligations: \$63,480

At the time of project formulation, the company had already sourced a used vapour degreasing cleaning system to replace its TCA-based metal cleaning process. However, this deal did not materialize and several attempts to purchase a similar used unit were not successful. The enterprise eventually made arrangements with a local equipment supplier and built a TCE-based vapour degreasing system at a much higher cost than the project budget and paid the difference itself. The new installation was inspected in April 1995 and found to be running efficiently and economically. The project was declared fully completed, with 23 tonnes/yr of TCA eliminated.

r) **MAL/SOL/11/INV/20: Malaysia: Eliminate TCA in home appliances parts manufacturing at MEC (Matsushita) Port Klang Plant**

Date of approval: Nov. 1993

ODS phaseout: 10.3 tonnes/annum

Proposed completion date: 3Q94

Actual completion date: 2Q95

Approved funding: \$173,280

Expenditures/obligations: \$173,280 +

The project converted two production lines to non-CFC cleaning processes and eliminated 10.3 tonnes/yr of TCA. The first converted line was commissioned in May 1994 using a water-based ultrasonic system with a conveyor for cleaning sole plates of home appliances parts, a de-ionized water generator, minor building modification, and mechanical and electrical works including ventilation system, testing and training. For the second cleaning line, a new no-rust aqueous chemical cleaning system was selected for product quality and engineering reasons. A 15% cost over-run took place since no contingency funds were included in the original project budget and ExCom approval is requested on this.

s) **MAL/SOL/12/INV/21: Malaysia: Eliminate TCA in car bumper cleaning process at Proton**

Date of approval: March 1994

ODS phaseout: 195 tonnes/annum

Proposed completion date: 1Q96

Actual completion date: 2Q95

Approved funding: \$700,439

Expenditures/obligations: \$700,439

The conversion to a CFC-free alkaline-based aqueous cleaning system at the Proton plant was designed and implemented by Proton engineers in collaboration with a selected local contractor under the technical supervision of UNOPS consultants. The project financed the cost of the new cleaning system, a water treatment system, process development and training. The project was declared successfully completed after satisfactory inspection of the new installations by UNDP's solvent sector expert in April 1995. A total of 195 tonnes/yr of TCA has been phased out. The project was completed nine months ahead of schedule.

t) **MAR/SEV/12/PRP/04: Mauritius: Project preparation assistance**

Date of approval: March 1994

Proposed completion date: 2Q95

Actual completion date: 2Q95

Approved funding: \$25,000

Expenditures/obligations: \$25,000

Two projects in domestic refrigeration were formulated and later approved by the ExCom in 1994. In May 1995, a UNDP consultant visited to help formulate a national programme for recovery and recycling of refrigerant; this project proposal has been submitted for approval to the 17th ExCom.

u) **MEX/SEV/04/PRP/03: Mexico: Prepare TOR for investment projects identified in the CP**

Date of approval: June 1991

Proposed completion date: 4Q92

Actual completion date: 2Q95

Approved funding: \$50,000

Expenditures/obligations: \$52,277

The national expert drafted 12 project outlines as per his contract. Some of the resulting project proposals were approved under the World Bank work programme, and others under the UNDP work programme. A few proposals were not pursued due to lack of interest by the companies themselves.

v) **THA/FOA/12/INV/25: Thailand: Eliminate CFC-12 use in extruded polystyrene foam sheet at Polyseal Co. and Food Box Co.**

Date of approval: March 1994

ODS phaseout: 100 tonnes/annum

Proposed completion date: 2Q95

Actual completion date: 1Q95

Approved funding: \$455,000

Expenditures/obligations: \$364,000

The conversion to LPG technology at Polyseal and Foodbox in the production of extruded polystyrene foam was implemented with close monitoring and expert guidance throughout project implementation phase by a UNDP-appointed process consultant. The project was declared substantially completed in February 1995. A safety inspection was also carried out and additional safety measures were recommended and completed in April 1995. A total of 100 tonnes/yr of CFC-12 were phased out under the project which was completed slightly ahead of schedule. Final payments have to be made.

w) **VEN/SEV/11/CPG/17: Venezuela: Finalization of the Venezuela Country Programme**

Date of approval: Nov. 1993

Proposed completion date: 4Q94

Actual completion date: 2Q95

Approved funding: \$12,000

Expenditures/obligations: \$5,587

The Country Programme was finalized during first half 1995, comments from UNDP were incorporated and the CP is being presented for approval at the 17th ExCom Meeting. Costs incurred over the last few months are not yet reflected in the accounts.

x) **VEN/SEV/15/PRP/21: Venezuela: Project preparation assistance**

Date of approval: Dec. 1994

Proposed completion date: 4Q95

Actual completion date: 2Q95

Approved funding: \$40,000

Expenditures/obligations: \$45,445

Several visits were undertaken by UNDP's foam and refrigeration consultants in Feb. and May 1995, resulting in the formulation of 5 domestic refrigeration projects, 2 commercial refrigeration projects and 1 polystyrene project with a combined budget of \$4.3 million. All have been submitted for approval at the 17th ExCom Meeting.

y) **GLO/HAL/13/TAS/37: Global: Analysis and formulation of a halon action plan and phaseout strategy for small consuming countries**

Date of approval: July 1994

Proposed completion date: 1Q95

Actual completion date: 1Q95

Approved funding: \$50,000

Expenditures/obligations: \$50,000

Regional case studies, including field visits to selected, representative low halon-consuming countries, were conducted by UNDP's halons sector expert. The case studies were completed in close collaboration with USEPA. Other experts from bilateral programmes such as Canada, UK and Australia were also closely involved in the discussions. A Working Group consisting of representatives from selected low halon-consuming countries, developing countries, bilateral programme partners, the Fund Secretariat, and implementing

agencies met in Nairobi in September 1994 to discuss the first draft of the strategy paper which has since been modified extensively. The Executive Summary of the final strategy paper will be distributed to ExCom Members. The full paper will be discussed at the peer level at the 5-7 July 1995 Interagency Meeting of Implementing Agency MP consultants in Paris, following which the final paper will be circulated at the 17th ExCom Meeting.

z) **GLO/SEV/12/TAS/63: Global: Safety, pre-assessment and post-assessment of UNDP implemented foam and solvent sector projects**

Date of approval: March 1994

Proposed completion date: 2Q95

Actual completion date: 2Q95

Approved funding: \$25,000

Expenditures/obligations: \$28,000

Equipment was procured to measure and analyze safety in UNDP foam and solvent investment projects. The \$3,000 overexpenditure was due to the need to purchase an explosion-proof analyzer that could be used with pentane, butane and other hydrocarbons. The equipment has already been used in several UNDP projects to measure baseline air quality during project formulation, and to test project safety levels during and following project completion. A TDI analyzer is also being used during pre-assessment to establish the baseline on existing emissions.

ODS Phaseout Projects Completed

11. During the reporting period of December 1994 to mid-June 1995, UNDP completed 12 additional investment projects -- China (2), Egypt (1), Malaysia (8) and Thailand (1) -- which have eliminated a total of 1,028 ODS tonnes.
12. In total, then, UNDP has cumulatively completed/commissioned 20 ODS investment phaseout projects and have eliminated 1,455 ODS tonnes comprising 1,199 ODS tonnes in the foam sector (15 projects), 238 ODS tonnes in solvents (4 projects), and 18 ODS tonnes in refrigeration (1 project). Of these 20 completed investment projects, 2 are in China, 6 are in Egypt, 11 are in Malaysia and 1 is in Thailand.

Project Monitoring System

13. This system developed by UNDP/MPU is now used on a continuous basis for project activity monitoring and updating.

Interest Income

14. **1991-1993:** Interest income earned under UNDP's Montreal Protocol Trust Fund over the period 1991-1993 was \$559,861. As per UNDP's statement at the 15th ExCom Meeting, UNDP had agreed to credit this amount against its project approvals. However, the Fund Treasurer has informed UNDP that it is unable to do so since the 15th ExCom Report does not specifically refer to an ExCom decision in this regard. These funds are therefore available for offset against UNDP projects/activities approved at the 17th ExCom Meeting.
15. **1994:** Interest income earned in 1994 under UNDP's Montreal Protocol Trust Fund amounts to \$1,726,099. This amount can be utilized to offset new UNDP project/activity approvals at the 17th ExCom Meeting.

COUNTRY DEVELOPMENTS: HIGHLIGHTS

ARGENTINA

Several visits by UNDP foams and halons experts have taken place. Two foam projects approved in Sept. 1994 are ongoing. Nine new projects in flexible and rigid foams were prepared and have been submitted for approval at the 17th ExCom Meeting. In addition, two subcontracts were established to carry out surveys that will lead to the preparation of a halon banking programme. The Institutional Strengthening project is progressing.

BANGLADESH

UNDP's aerosols sector expert visited in Dec. 1994 together with UNDP's Programme Coordinator for Asia/Pacific; an aerosols project was formulated and has been submitted for approval at the 17th ExCom Meeting. The Institutional Strengthening project document is awaiting signature by the Government.

BRAZIL

An Interagency Agreement was signed by all implementing agencies in Dec. 1994, following which UNDP has stepped up its efforts in project formulation activities. As a result, one project in refrigeration, four in foams and two in solvents were prepared and submitted for approval at the 17th ExCom Meeting. While the Institutional Strengthening project was fully operational until January 1995, following the recent elections most staff were transferred to other departments and UNDP is awaiting the Government's decision as to whether this project will be transferred to the Ministry of Environment and the Amazon.

CHINA

China is the largest programme in UNDP's MP portfolio. During the reporting period, remarkable implementation progress was achieved. UNDP, UNOPS and NEPA/PMO staff held intensive working sessions during various in-country visits to accelerate implementation. A programme review was carried out in late January 1995 and detailed workplans were prepared. The Institutional Strengthening project is also progressing well; an additional programme officer joined the team in May 1995. Each team member has now been assigned sectoral and implementing agency responsibilities to facilitate coordination and follow-up efforts. On 18 May 1995, the Tianjin Polyurethane Plastics Factory (flexible foam) project in China was officially commissioned with the Hand-over Protocol signed at a ceremony attended by over 100 participants from Government and industry, this being the first CFC phaseout investment project completed in China under the Multilateral Fund. A second project, involving production of polystyrene foams, has also been completed and the commissioning is expected by end-June 1995. The Government convened a widely-attended meeting in Xi'an during 12-14 June to discuss China's MP sector strategies; UNDP staff and experts participated at and contributed to the meeting.

COLOMBIA

Projects for 3 commercial refrigerator manufacturers were approved in Dec. 1994. Some implementation difficulties regarding custom clearance of equipment have caused delays, but this issue is now being resolved. Meanwhile, one new proposal in domestic refrigeration, three in commercial refrigeration, and one in recovery/recycling of refrigerant have been submitted for approval at the 17th ExCom Meeting. The Institutional Strengthening project is progressing well.

COSTA RICA

UNDP refrigeration sector consultants assisted companies and the Government develop two projects which have been submitted to the 17th ExCom Meeting for approval. The approved projects as well as the Institutional Strengthening project are progressing.

CUBA

The recovery/recycling project approved in Dec. 1994 is ongoing and the equipment should be arriving in Sept./Oct. 1995. The Institutional Strengthening project is proceeding well.

EGYPT

The primary focus during first half 1995 was on project implementation. Equipment specifications for all approved projects were prepared and discussed with enterprises concerned and equipment procurement activities are underway for most approved projects. The Taki-Vita foam project was commissioned in April 1995 and has eliminated 50 tonnes/annum of CFC-11. At least 3 investment projects are scheduled for commissioning during 3Q95. In the halons sector, the national strategy and action plan for halon management and banking has been formulated; some changes are being introduced and the Government has requested that this paper be submitted to the 18th ExCom.

GHANA

A final report on the refrigerant recovery/recycling project was prepared by UNEP, and activities for this project will soon end. Progress in the foam project is slower than anticipated, due to the long time taken by the companies to finalize the local engineering drawings needed for the ventilation equipment. The technical assistance project in foam on the other hand is now operationally completed. The Institutional Strengthening project is progressing satisfactorily.

GUATEMALA

An implementation visit took place in Feb. 1995 for the two commercial refrigeration projects approved in Dec. 1994. Equipment specifications have been finalized and implementation is progressing as per schedule.

INDIA

The report on the small-scale sector ODS survey was received in late-May 1995 and is under review by UNDP, UNEP and other concerned agencies. The halons alternatives demonstration project is proceeding well and two halons workshops were held in April 1995 to help develop the halons sector phaseout strategy. The Institutional Strengthening project is proceeding well with the Ozone Cell responsible for implementation of the Country Programme and coordination of activities of the implementing agencies. Regarding implementation arrangements for the five UNDP foam investment projects approved in March/July 1994, a UNDP/UNOPS team held intensive discussions with IDBI and MOEF during 9-12 April 1995 in a final effort to resolve the requirement of the Government that UNDP use a financial intermediary which is contrary to its internal rules and procedures. This was followed by high level discussions on 21 April in New York between India's Secretary of Environment, Mr. Natarajan Krishnan, the Administrator of UNDP, Mr. James Gustave Speth, and Mr. Nay Htun, UNDP Assistant Administrator and Director, Regional Bureau for Asia and the Pacific. They agreed that the existing decision to use IDBI as a financial intermediary was not feasible and that existing UNDP procedures should be followed; UNDP is awaiting formal notification to this effect.

INDONESIA

UNDP consultants in May 1995 identified several potential projects in the commercial refrigeration sector. Two rigid foam/panels projects have been finalized and submitted for approval to the 17th ExCom Meeting. UNDP's solvent sector expert in April 1995 discussed with the Government the status of the solvent sector as a result of the recent ExCom decisions on project cost-effectiveness thresholds. A halon management and recycling programme was finalized and two projects have been submitted to the 17th ExCom for consideration. The Institutional Strengthening project is progressing well.

IRAN

At the request of the Government and as approved at the 16th ExCom Meeting, the remaining project preparation funds under the project (\$32,065 + support costs) have been transferred to UNIDO.

JAMAICA

Two UNDP consultants helped counterparts draft a project proposal for recovery/recycling of refrigerant which would be submitted to the 18th ExCom Meeting.

KENYA

The Institutional Strengthening project is proceeding well with an ozone coordinator and an assistant recruited and computer equipment purchased. A National Interministerial Committee on Environment has been guiding the ozone unit. A methyl bromide workshop was held during 24-25 April 1995, a halons usage survey is underway, the national refrigeration demonstration centre is being started, and a national awareness campaign is being launched.

MALAYSIA

The primary focus during first-half 1995 was on project implementation. Equipment procurement and contracting activities are now underway for all projects approved in Dec. 1994. Between February and April 1995, 8 projects were commissioned: 3 in solvents and 5 in foams. A total of 538 tonnes/yr of ODS was phased out. On 25 May 1995, a national aerosol seminar was organized under the MLF-funded Aerosol Technical Assistance Programme; 33 small and medium-size enterprises participated. The need to switch to alternative ODS-free technology and the safe handling of hydrocarbons generated animated debate; several enterprises approached UNDP for technical assistance. Three projects covering 8 small and medium-size aerosol enterprises have been finalized and submitted for approval at the 17th ExCom Meeting. Project formulation activities continued in the commercial refrigeration and rigid foam sub-sectors. Two umbrella programmes have been finalized and submitted to the 17th ExCom Meeting, together with 3 projects covering molded/integral skin foams.

MAURITIUS

UNDP consultants and MPU staff visited in May 1995 to implement the two approved domestic refrigeration projects; procurement activities have been initiated. They also helped formulate a CFC recovery/recycling programme including a retrofit demonstration component for the commercial refrigeration sector; this project proposal has been submitted to the 17th ExCom for approval. The UNDP team also discussed the need for enforcement of current environmental legislation regarding import of controlled substances and this matter is now being reviewed by the State Law Office.

MEXICO

Two large domestic refrigeration manufacturing projects and two solvents sector projects were approved in December 1994. Specifications for equipment were prepared following an implementation visit in early 1995. Work in the foams and halons sector is expected to result in new project proposals to be submitted in late-1995 or early-1996.

NIGERIA

The Institutional Strengthening project is ongoing with staff recruited. The ozone unit has been conducting a public awareness campaign, has procured the approved computer equipment, and is working on completion of the country programme.

PAKISTAN

The Government has signed the Institutional Strengthening project document and a detailed workplan has been finalized. Recruitment action is now underway for the national staff.

PANAMA

The foam sector projects approved in July 1994 are ongoing. A recovery/recycling project would be ready for submission to the 18th ExCom Meeting.

PERU

Visits by UNDP foam and refrigeration sector consultants resulted in formulation of 6 investment projects in the domestic refrigerator manufacturing sector which were approved in December 1994. A project implementation visit took place in Feb. 1995 and equipment specifications were prepared. A new project proposal was prepared in the polystyrene foam sector (Promola) which is being presented for approval at the 17th ExCom Meeting.

PHILIPPINES

A project identification/formulation visit was conducted during 31 March - 17 April 1995 for large, medium and small-scale enterprises in the commercial refrigeration sector. Five plants were visited and the UNDP refrigeration sector expert and UNDP staff conducted a mini-workshop at each company. As a result two projects (Mepco, Azkon) were finalized and submitted to the 17th ExCom for approval. Two other projects (Gomeco, Himalayas) will be finalized for submission at future meetings. A workshop for small-scale commercial refrigeration manufacturers is scheduled for August 1995 at which attempts will be made to formulate cost-effective projects.

SRI LANKA

The UNDP refrigeration sector expert and UNDP staff visited Sri Lanka in late November 1994. An umbrella programme covering 3 domestic refrigerator manufacturers has been formulated and presented to the 17th ExCom Meeting for consideration. UNDP staff met with a representative of an aerosol manufacturer during the UNEP Regional Aerosol Workshop (Jakarta, 29-31 May 1995) and discussed a project proposal for Sri Lanka. A visit by an aerosol consultant to formulate aerosol projects is under review by MPU. The Institutional Strengthening project is operational and is coordinating the implementation of the Country Programme.

THAILAND

In Feb. 1995, UNDP commissioned its first ODS phaseout project in Thailand involving two polystyrene manufacturing companies - Polyseal and Foodbox. 100 tonnes/yr of CFC-12 have been phased out through conversion to butane. Several projects in the commercial

refrigeration sector have been identified and will be formulated during second half 1995. The Institutional Strengthening project is fully operational and is coordinating implementation of the Country Programme as well as activities of the implementing agencies.

TRINIDAD & TOBAGO

The Country Programme is still being finalized by the Government and is now scheduled for presentation at the 18th ExCom Meeting.

URUGUAY

Implementation is progressing satisfactorily for the two foam sector investment projects and a refrigerant recovery/recycling project approved in 1994. An aerosol project has been identified and would be formulated later this year. The Institutional Strengthening project is progressing well, the ozone unit is fully staffed and is coordinating implementation of the Country Programme.

VENEZUELA

The Country Programme has been finalized and is being presented at the 17th ExCom Meeting. As part of the Country Programme exercise, FONDOIN has also prepared requests for a second phase for institutional strengthening, as well as project proposals for workshops and recovery/recycling for chillers. UNDP sector experts have finalized 7 proposals in the domestic and commercial refrigeration sectors, as well as one in polystyrene foam, which are all being presented at the 17th ExCom Meeting for approval.

VIETNAM

UNDP's aerosols expert visited Vietnam in March 1995 and identified several aerosol projects. One project has been finalized and presented to the 17th ExCom Meeting for approval; for the other projects, the Government is collecting additional information. A follow-up visit to finalize the formulation of these projects is planned for end-September and the projects will be submitted to the 18th ExCom.

GLOBAL/REGIONAL PROJECTS: HIGHLIGHTS

GLOBAL HALONS PROJECT

Asia: Three countries benefitted from USEPA technical visits during Nov-Dec 1994 under the joint USEPA/UNDP collaborative implementation of the Global Halons Project. In CHINA, USEPA met with NEPA, MPS and the Tianjin Fire Research Institute to discuss activities in the halons sector; two sites in Beijing which had received H-1211 recovery/recharge machines were visited and machine operators interviewed on utilization, operations, difficulties encountered and improvements foreseen; this also resulted in development of a cost-effective Leak Reduction Demonstration Project. In MALAYSIA, USEPA met with both the Environment and Fire Services Departments and a proposed halon management training workshop was developed. In the PHILIPPINES, the Environmental Management Bureau met with USEPA and stated it had organized a Halon Technical Working Group comprising all major halons users; a halons management workshop has been scheduled in Manila for August 1995.

Latin America: Follow-up visits to PANAMA were conducted during 29 Jan - 2 Feb 1995. In URUGUAY, a H-1211 workshop was well attended (12 participants from Uruguay, 3 from

Argentina, UNDP's Halons Sector Expert, UNDP and USEPA representatives); the workshop consisted of a two day analytical training with video tapes followed on the third day by hands-on practical training on the H-1211 machine where each participant was allowed to operate the equipment from start to finish.

Middle East: A halons workshop in BAHRAIN at which participants from other Middle East countries are scheduled to attend, will be held during 17-18 June 1995.

GLOBAL MAC PROJECT

Latin America: Three countries benefitted from USEPA technical visits during Nov-Dec 1994 under the joint USEPA/UNDP collaborative implementation of the Global MAC Project. In VENEZUELA, Phase I jointly implemented by UNDP, USEPA and FONDOIN has been completed and Phase II is now ongoing; the equipment and training provided in Phase I has reduced CFC-12 emissions by 10-11 tonnes annually; Phase II consists of recovery and recycling, reduction in the number of air conditioning "top-ups" to improve system recharge practices and improve system flush and other repair procedures. In MEXICO, the recycling and leak reduction demonstration project has been successful; under this activity, 21 enterprises in Monterrey received equipment and presently a follow-up visit to collect data and information on equipment use and operation is ongoing. In ARGENTINA, CFC-12 consumption is high in this sector; a workshop is scheduled for August/September 1995 which will target automotive MACs, buses and refrigerated transport; recovery/recycle equipment will be procured and training will be part of project implementation.

Asia: In CHINA, working with the Ministry of Machinery Industry, a demonstration project implemented by UNDP under this project was replicated by USEPA; recycling equipment are now in place and the demonstration workshop with 25-30 participants in Beijing yielded methods to reduce CFC-12 emissions by 10-12 tonnes/annum.

REGIONAL MAC PROJECTS

UNDP/USEPA, together with the UNDP MAC sector expert, have developed an agenda/curriculum for the three demonstration programmes/workshops that will cover the three regions (Latin America, Asia, Middle East). Logistics are now being discussed. The first would be in 3Q95 in Latin America, the second in Asia in 4Q95 and the third in the Middle East in 1Q96.

MEETINGS ATTENDED AND INTERAGENCY COOPERATION

- a) During 4-7 December 1994, two UNDP/MPU staff (Pinto, Van Engel) participated in a joint UNDP/UNIDO/ World Bank visit to Brazil for discussions with the Government on the roles of the respective implementing agencies in the national ODS phaseout programme. An Inter-agency Agreement was formally signed at that time.
- b) Three UNDP/MPU staff (Pinto, Reno, Van Engel) participated at the 15th Meeting of the Executive Committee held in Montreal during 11-16 December 1994.
- c) UNDP/MPU staff (Van Engel) represented UNDP at the OORG Meeting on Mobile Airconditioning, held at the World Bank in Washington DC, on 18 January 1995.

- d) In January 1995, UNDP/MPU staff (Reno) undertook a programme review visit with UNOPS staff (Ms. Inge Huls) and the UNDP solvent sector expert (Mr. Clinton Norris) to China. Project status and detailed workplans were reviewed. MPU/UNOPS staff worked intensively with NEPA/PMO staff and provided training on various aspects of project implementation.
- e) UNDP/MPU staff (Reno, Van Engel) and a UNDP consultant (Norris) represented UNDP at the 27-28 Jan 1995 Interagency Coordination Meeting held at the Fund Secretariat Office in Montreal.
- f) UNDP/MPU staff (Pinto) had intensive discussions with IDBI and the Government of India in New Delhi during 6-10 February 1995 on UNDP investment project implementation in India. He also reviewed the status of other ongoing UNDP MP technical assistance projects and commented on the draft survey form for the small-scale survey project.
- g) A UNDP/MPU staff (Corpus) participated in the joint UNDP/USEPA Halon-1211 Recovery-Recycling Workshop held in Montevideo, Uruguay, during 13-15 February 1995.
- h) UNDP/MPU and UNOPS staff had a full day planning/implementation meeting on 1 March 1995 covering operational details and expected 1995 work programmes.
- i) UNDP/MPU staff (Van Engel) participated in UNDP/GEF's Environment Focal Point Workshop, held in Cuernavaca, Mexico, during 7-8 March 1995 and made a presentation on UNDP's Montreal Protocol related activities.
- j) Three UNDP/MPU staff (Pinto, Reno, Van Engel) participated at the 16th Meeting of the Executive Committee held in Montreal during 13-17 March 1995.
- k) The Chairman of the Executive Committee, Mr. John Whitelaw, visited UNDP and UNOPS during 20-21 March 1995. With UNDP he discussed the overall UNDP work programme, regional and sectoral operations and what the Executive Committee could do to facilitate implementation. With UNOPS, he covered project implementation and related issues.
- l) UNDP/MPU staff (Pinto, Reno) visited China during 1-5 April 1995 for the commissioning of the Tianjin flexible foam project and used the opportunity to hold useful discussions with the Administrator of NEPA and other senior NEPA officials.
- m) UNDP/MPU staff (Pinto, Reno) and UNDP solvents expert (Norris) visited Malaysia during 6-7 April 1995. Three solvent projects were commissioned and Hand-over Protocols signed. The Hand-over Protocols for two foam projects were also signed. Detailed discussions were held with Government officials. Preparation of a foam sector training video was also started.
- n) UNDP/MPU staff (Pinto, Reno) and UNOPS staff (Schuetz-Mueller, Geka-Solomos) had intensive discussions with IDBI (in Bombay) and with the Government of India in New Delhi during 9-12 April 1995 to try and resolve the modality of UNDP implementation of MP investment projects in India. UNDP/UNOPS staff also met with the concerned companies to get an update on their situations.
- o) UNDP/MPU staff (Corpus) had meetings with officers of DENR/EMB of the Government of the Philippines on 20 April 1995 to discuss the overall UNDP work programme, with particular emphasis on the small-scale sector, the halons sector and MAC activities.

- p) **UNDP Administrator, Mr. James Gustave Speth, and Mr. Nay Htun, UNDP Assistant Administrator and Director of the Regional Bureau for Asia and the Pacific, met with India's Secretary of the Environment, Mr. Natarajan Krishnan, in New York on 21 April 1995. Among the issues discussed were methods to facilitate UNDP implementation of Montreal Protocol investment projects in India.**
- q) **UNDP/MPU staff (Pinto) represented UNDP at the 11th Meeting of the Open-Ended Working Group of the Parties to the Montreal Protocol during 8-12 May 1995 in Nairobi.**
- r) **UNDP/MPU staff (Van Engel) represented UNDP and spoke at the First Workshop for National ODS Officers for English-Speaking African Countries, organized by UNEP in Nairobi during 15-18 May 1995.**
- s) **UNDP/MPU staff (Reno) attended the UNEP Regional Workshop on Aerosol held in Jakarta during 29-31 May 1995 and held programme discussions with delegates from various ASEAN countries. She also made a presentation on "Preparation of Montreal Protocol Projects" at the National Aerosol Seminar held in Kuala Lumpur on 25 May 1995, organized under the ongoing Aerosol Technical Assistance Programme approved by the Multilateral Fund.**
- t) **UNDP/MPU staff (Pinto) and UNDP/Beijing MP programme officer (Mr. Deng Yongzheng) represented UNDP at the 12-14 June 1995 International Symposium on Sectoral Strategies for ODS Phaseout in China, held in Xi'an, China.**

UNDP'S MONTREAL PROTOCOL STAFF AND EXPERTS/CONSULTANTS

- o Mr. Frank Pinto, Principal Technical Adviser, and Chief, Montreal Protocol Unit (MPU), Energy and Atmosphere Programme/SEED.
- o Ms. Laurence Reno, Regional Programme Officer, MPU, covering Asia/Pacific, Egypt and Mauritius.
- o Mr. Jacques Van Engel, Regional Programme Officer, MPU, covers Latin America/Caribbean, the Middle East, and shares responsibility for Africa.
- o Ms. Cecilia Corpus, Principal Prog/Admin Assistant, MPU, covers administrative/ financial matters for the programme, covers the Philippines, shares responsibility for Africa and handles the global halons and MAC projects.
- o Ms. Monica Ntiru, Junior consultant (Africa, technology and finance issues)
- o Mr. Jessie Reyes, MPU Secretary.
- o Ms. Belina Matias, Finance Assistant (part-time)

The principal executing agency for UNDP in the implementation of its projects is the UN Office of Project Services (UNOPS). Staff dealing with Montreal Protocol matters include:

- o Mr. Ingolf Schuetz-Mueller, Chief, Division for Special and Interregional Programmes & Europe
- o Ms. Linda Cauvin, Programme Management Officer
- o Ms. Inge Huls, Programme Management Officer
- o Ms. Dionysia Geka-Solomos, Programme Management Officer
- o Ms. Nahid Chaudhury, Programme Management Assistant
- o Ms. Olga Cestero-Ferguson, Programme Management Assistant
- o Ms. Claudine Conan, Programme Management Assistant

Several UNDP Country Offices have strengthened their capabilities to assist implementing agencies in national project and programme implementation. For non-UNOPS executed projects, UNDP Country Offices coordinate implementation arrangements directly with the Government.

The following sector specialists have retainer expert contracts with UNDP and are responsible for the design, technical implementation, monitoring and evaluation of UNDP projects/programmes in their fields of specialization:

- | | |
|------------------------------------|--------------------------------|
| o Aerosols | : Mr. Geno <u>Nardini</u> |
| o Country policy and solvents | : Mr. Clinton <u>Norris</u> |
| o Foams | : Mr. Bert <u>Veenendaal</u> |
| o Halons and project safety audits | : Mr. Erik <u>Pedersen</u> |
| o Refrigeration/AC | : Mr. Stuart <u>Kelly</u> |
| o MAC | : Mr. Simon <u>Oulouhojian</u> |

Around 20 other international experts, in all sectors, have also been utilized as consultants, particularly in project preparation and implementation. UNDP has also utilized and continues to utilize several national experts on a part-time basis including those from Brazil, China, India, Malaysia, Mexico, the Philippines and Venezuela.

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UNDP WORK PROGRAMME UNDER THE MONTREAL PROTOCOL

FINANCIAL SUMMARY

(as of 20 June 1995)

COUNTRY/ REGION	FUND ALLOCATIONS	DISBURSEMENTS/ OBLIGATIONS	REMAINING BALANCE
ARGENTINA	1,574,500	333,810	1,240,690
BANGLADESH	265,000	80,290	184,710
BRAZIL	898,100	325,281	572,819
CHILE	25,000	25,000	0
CHINA	15,999,374	3,512,644	12,486,730
COLOMBIA	7,374,197	2,160,555	5,213,642
COSTA RICA	433,400	260,075	173,325
CUBA	391,000	206,979	184,021
ECUADOR	140,000	140,000	0
EGYPT	10,703,500	6,086,734	4,616,766
GHANA	923,200	365,736	557,464
GUATEMALA	379,883	30,261	349,622
INDIA	3,214,100	593,758	2,620,342
INDONESIA	802,780	450,387	352,393
IRAN	283,485	145,785	137,700
JAMAICA	30,000	12,510	17,490
JORDAN	41,000	41,000	0
KENYA	209,850	75,582	134,268
MALAYSIA	10,777,700	5,767,485	5,010,215
MAURITIUS	497,858	25,000	472,858
MEXICO	8,599,852	207,485	8,392,367
NIGERIA	349,650	137,623	212,027
PAKISTAN	259,000	0	259,000
PANAMA	185,000	24,181	160,819
PERU	2,212,691	286,268	1,926,423
PHILIPPINES	3,474,340	1,509,847	1,964,493
SRI LANKA	219,680	94,040	125,640
THAILAND	4,905,800	1,586,902	3,318,898
TRINIDAD/TOBAGO	78,800	80,102	(1,302)
URUGUAY	1,280,744	654,306	626,438
VENEZUELA	817,392	713,544	103,848
VIETNAM	100,000	50,288	49,712
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SUBTOTAL (A)	77,446,876	25,983,458	51,463,418
REGIONAL	435,500	235,628	199,872
GLOBAL	1,693,717	1,291,401	402,316
SUBTOTAL (B)	2,129,217	1,527,029	602,188
GRAND TOTAL	79,576,093	27,510,487	52,065,606
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ONGOING UNDP PROJECTS UNDER THE MULTILATERAL FUND

printed on: 28/06/95

Country	MP-Number	UNDP-Nr	Ex.Ag	Project Title	ODS tonnes	Budget US\$	Disbursed US\$	Date Approved
1 ARGENTINA	ARG/FOA/14/INV/13	ARG/94/G62	OPS	Prensiplast flex/IS PUF inv.	30	345,000	100,000	Sep. 94
2 ARGENTINA	ARG/FOA/15/INV/14	ARG/94/G63	OPS	CINTER sandwich PUF Panels inv.	45	725,000	100,000	Dec. 94
3 ARGENTINA	ARG/HAL/13/TAS/07	INT/94/G61	OPS	TA for national halons programme	0	50,000	38,810	July 94
4 ARGENTINA	ARG/SEV/04/TAS/01	INT/91/G61	OPS	TA for CP preparation	0	25,000	25,000	June 91
5 ARGENTINA	ARG/SEV/13/INS/11	ARG/94/G61	Nat	Institutional strengthening	0	359,500	0	July 94
6 ARGENTINA	ARG/SEV/14/PRP/12	INT/94/G61	OPS	Project preparation assistance	0	70,000	70,000	Sep. 94
ARGENTINA	's Subtotal :				75	1,574,500	333,810	
1 BANGLADESH	BGD/SEV/04/TAS/01	INT/91/G61	OPS	ODS survey and training	0	55,000	53,850	June 91
2 BANGLADESH	BGD/SEV/06/CPG/02	INT/92/G61	OPS	Country programme preparation	0	25,000	25,000	Feb. 92
3 BANGLADESH	BGD/SEV/14/INS/04	BGD/94/G61	Nat	Institutional strengthening	0	150,000	0	Sep. 94
4 BANGLADESH	BGD/SEV/14/PRP/03	INT/94/G61	OPS	Project preparation assistance	0	35,000	1,440	Sep. 94
BANGLADESH	's Subtotal :				0	265,000	80,290	
1 BRAZIL	BRA/FOA/12/INV/11	BRA/94/G61	Nat	Rigid spray PUF (3 companies)	72	370,000	69,500	Mar. 94
2 BRAZIL	BRA/REF/06/DEM/01	INT/92/G61	OPS	Demo prog for refrig CFC reuse	0	25,000	25,000	Feb. 92
3 BRAZIL	BRA/SEV/10/INS/09	BRA/93/G61	Nat	Institutional strengthening	0	403,100	138,905	June 93
4 BRAZIL	BRA/SEV/11/PRP/10	INT/93/G61	OPS	Project preparation assistance	0	100,000	91,876	Nov. 93
BRAZIL	's Subtotal :				72	898,100	325,281	
1 CHILE	CHI/REF/06/DEM/02	INT/92/G61	OPS	Demo prog: refrig technicians	0	25,000	25,000	Feb. 92
CHILE	's Subtotal :				0	25,000	25,000	
1 CHINA	CPR/ARS/06/TAS/02	INT/92/G61	OPS	Guangdong aerosols project TA	0	75,000	45,684	Feb. 92
2 CHINA	CPR/FOA/06/TAS/03	INT/92/G61	OPS	TA: flexible PUF technology	0	70,000	65,000	Feb. 92
3 CHINA	CPR/FOA/06/TAS/04	INT/92/G61	OPS	Quality control: home refrig.	0	65,000	60,019	Feb. 92
4 CHINA	CPR/FOA/06/TAS/05	INT/92/G61	OPS	TA: subs. technologies rigid PUF	0	70,000	70,000	Feb. 92
5 CHINA	CPR/FOA/07/TAS/17	CPR/93/G64	Nat	TA for SHEARI foam inv. project	0	480,000	50,000	June 92
6 CHINA	CPR/FOA/10/INV/52	CPR/93/G71	Nat	Tianjin flexible PUF inv. proj.	180	1,080,000	1,080,000	June 93
7 CHINA	CPR/FOA/10/TAS/37	CPR/93/G67	Nat	Strategy/action programme foams	0	200,000	40,000	June 93
8 CHINA	CPR/FOA/11/INV/54	CPR/93/G72	OPS	BCMF rigid PUF (spray) inv proj.	30	435,000	375,000	Nov. 93
9 CHINA	CPR/FOA/13/INV/67	CPR/94/G62	OPS	Yangfeng flex/IS PUF demo inv.	68	670,000	0	July 94
10 CHINA	CPR/FOA/13/INV/73	CPR/94/G65	Nat	Danshui XPE foam sheets inv pro.	160	241,000	241,000	July 94
11 CHINA	CPR/FOA/13/INV/74	CPR/94/G66	OPS	Tianjin Plastics rigid PUF inv.	100	690,000	0	July 94
12 CHINA	CPR/FOA/15/INV/87	CPR/94/G67	OPS	Shijiazhuang: XPS foam inv. pro.	160	621,000	0	Dec. 94
13 CHINA	CPR/FOA/15/INV/88	CPR/94/G68	OPS	Suzhou #7: PE foam tubing inv.	70	358,000	0	Dec. 94
14 CHINA	CPR/FOA/15/INV/89	CPR/94/G69	OPS	Shenrong: XPS foam sheet inv.	48	166,700	0	Dec. 94
15 CHINA	CPR/FOA/15/INV/90	CPR/94/G70	OPS	Feicheng: XPS/XPE foam inv.proj.	150	388,000	0	Dec. 94
16 CHINA	CPR/FOA/15/INV/91	CPR/94/G71	OPS	Guangxing: XPS foam sheet inv.	36	375,000	0	Dec. 94
17 CHINA	CPR/FOA/15/INV/92	CPR/94/G72	OPS	Shenzhen Shentie: XPS foam inv.	75	345,000	0	Dec. 94
18 CHINA	CPR/FOA/15/INV/93	CPR/94/G73	OPS	Hebei Sixing: XPE foam net inv.	65	436,000	0	Dec. 94
19 CHINA	CPR/FOA/15/INV/94	CPR/94/G80	OPS	Beijing Yanxi: Flexible PUF inv.	25	125,000	0	Dec. 94
20 CHINA	CPR/FOA/15/INV/95	CPR/94/G91	OPS	Faw Trim: flexible PUF inv. proj	28	143,000	0	Dec. 94
21 CHINA	CPR/FOA/15/INV/96	CPR/94/G92	OPS	Hubei Auto Eng: IS/PUF inv. proj	20	150,000	0	Dec. 94
22 CHINA	CPR/FOA/15/INV/97	CPR/94/G93	OPS	Dalian No.1: Flex PUF inv. proj.	100	490,000	0	Dec. 94
23 CHINA	CPR/FOA/15/INV/98	CPR/94/G74	OPS	Jinfeng: XPS foam inv. project	70	235,340	0	Dec. 94
24 CHINA	CPR/FOA/15/INV/99	CPR/94/G75	OPS	Jinan Plastics #4: XPS foam inv.	30	337,000	0	Dec. 94
25 CHINA	CPR/FOA/15/INV/A0	CPR/94/G76	OPS	Guizhou Jinchang: XPS foam inv.	50	390,000	0	Dec. 94
26 CHINA	CPR/FOA/15/INV/A1	CPR/94/G77	OPS	Hailun: XPS/XPE foam inv. proj.	95	321,000	0	Dec. 94
27 CHINA	CPR/FOA/15/INV/A2	CPR/94/G78	OPS	Shanghai Jianhua: XPE/XPS inv.	100	280,000	0	Dec. 94
28 CHINA	CPR/FOA/15/INV/A3	CPR/94/G79	OPS	Foshan #3: XPS/XPE foam inv.	360	1,065,000	0	Dec. 94
29 CHINA	CPR/FUM/12/TAS/60	CPR/94/G61	Nat	Methyl bromide survey	0	87,000	0	Mar. 94
30 CHINA	CPR/HAL/06/TAS/06	INT/92/G61	OPS	Halons uses/substitutes study	0	40,000	43,345	Feb. 92
31 CHINA	CPR/HAL/10/TAS/39	CPR/93/G69	Nat	Halon phaseout plan/codes/train.	0	280,000	0	June 93
32 CHINA	CPR/HAL/10/TAS/40	CPR/93/G70	Nat	Halons phaseout: alter. systems	0	300,000	0	June 93
33 CHINA	CPR/HAL/12/INV/58	INT/94/G61	OPS	Air compressors: H-1211 machines	0	155,000	116,552	Mar. 94
34 CHINA	CPR/REF/06/TAS/07	INT/92/G61	OPS	Study: HFC-134a in MAC/recycling	0	40,000	24,836	Feb. 92
35 CHINA	CPR/REF/06/TRA/08	INT/92/G61	OPS	Study: Non-ODS refrig. technol.	0	75,000	75,000	Feb. 92
36 CHINA	CPR/REF/09/TAS/27	CPR/93/G63	Nat	Testing CFC substitutes: refrig.	0	100,000	0	Mar. 93
37 CHINA	CPR/REF/10/TAS/38	CPR/93/G68	Nat	Design standards: cold storage	0	200,000	0	June 93
38 CHINA	CPR/REF/11/TAS/55	CPR/93/G73	Nat	Nat. policy CFC recov/recycling	0	100,000	0	Nov. 93
39 CHINA	CPR/SEV/06/CPG/12	INT/92/G61	OPS	Country programme preparation	0	200,000	200,000	Feb. 92
40 CHINA	CPR/SEV/06/INS/11	CPR/93/G61	Nat	Institutional strengthening	0	450,000	191,400	Mar. 93
41 CHINA	CPR/SEV/06/TAS/10	INT/92/G61	OPS	Quality control testing: refrig.	0	70,000	0	Feb. 92
42 CHINA	CPR/SEV/09/PRP/28	INT/93/G61	OPS	Project preparation assistance	0	100,000	100,000	Mar. 93
43 CHINA	CPR/SEV/09/TAS/29	CPR/93/G62	Nat	Survey: small CFC plant convers.	0	90,000	39,853	Mar. 93
44 CHINA	CPR/SEV/11/PRP/51	INT/93/G61	OPS	Project Preparation Assistance	0	100,000	100,000	Nov. 93
45 CHINA	CPR/SEV/11/TAS/56	CPR/93/G74	Nat	Non-ODS Alternatives Standards	0	362,500	0	Nov. 93
46 CHINA	CPR/SEV/15/PRP/A6	INT/94/G61	OPS	Project preparation assistance	0	100,000	100,000	Dec. 94
47 CHINA	CPR/SOL/06/TAS/09	INT/92/G61	OPS	Study: Non-ODS electron. clean.	0	40,000	41,829	Feb. 92
48 CHINA	CPR/SOL/07/DEM/20	CPR/92/G61	Nat	Dalian precision parts cleaning	86	495,000	68,325	June 92

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Country	MP-Number	UNDP-Nr	Ex.Ag	Project Title	ODS tonnes	Budget US\$	Disbursed US\$	Date Approved
49 CHINA	CPR/SOL/07/DEM/21	CPR/92/G62	Nat	Dandong electro. tuner cleaning	25	495,000	384,801	June 92
50 CHINA	CPR/SOL/10/INV/35	CPR/93/G65	Nat	Nanjing Wire Works cleaning proj	14	409,000	0	June 93
51 CHINA	CPR/SOL/10/INV/36	CPR/93/G66	Nat	Chengdu cleaning demo. project	11	394,700	0	June 93
52 CHINA	CPR/SOL/12/INV/57	CPR/94/G64	Nat	Cleaning Equipment Mfg. project	0	524,734	0	Mar. 94
53 CHINA	CPR/SOL/12/TAS/61	CPR/94/G63	Nat	Cleaning Applications Centre	0	489,400	0	Mar. 94
CHINA	's Subtotal :				2,156	15,999,374	3,512,644	
1 COLOMBIA	COL/FOA/13/INV/05	COL/94/G63	OPS	Polystyrene foam inv (2 plants)	320	1,072,000	615,455	July 94
2 COLOMBIA	COL/REF/13/INV/04	COL/94/G62	OPS	Dom. refrig. inv proj (5 plants)	226	4,808,900	1,000,000	July 94
3 COLOMBIA	COL/REF/15/INV/06	COL/94/G64	OPS	INDUCOL: CFC-11/12 in com. ref.	16	381,548	100,000	Dec. 94
4 COLOMBIA	COL/REF/15/INV/07	COL/94/G65	OPS	INDUFRIAL: CFC-11/12 in com.ref.	30	442,644	100,000	Dec. 94
5 COLOMBIA	COL/REF/15/INV/08	COL/94/G66	OPS	WONDER: CFC-11/12 in com. ref.	7	251,315	160,000	Dec. 94
6 COLOMBIA	COL/SEV/12/INS/02	COL/94/G61	Nat	Institutional strengthening	0	317,790	85,100	Mar. 94
7 COLOMBIA	COL/SEV/12/PRP/03	INT/94/G61	OPS	Project preparation assistance	0	100,000	100,000	Mar. 94
COLOMBIA	's Subtotal :				599	7,374,197	2,160,555	
1 COSTA RICA	CSR/FOA/08/TRA/05	COS/92/G63	Nat	Seminar/workshop in foams	0	21,120	10,000	Oct. 92
2 COSTA RICA	CSR/REF/08/TRA/04	COS/92/G63	Nat	Conservation/training in refrig.	0	88,000	40,000	Oct. 92
3 COSTA RICA	CSR/SEV/04/TAS/01	COS/92/G62	OPS	ODS reconnaissance study	0	20,000	23,422	June 91
4 COSTA RICA	CSR/SEV/06/CPG/02	COS/92/G62	OPS	Country programme preparation	0	20,000	22,909	Feb. 92
5 COSTA RICA	CSR/SEV/08/INS/03	COS/92/G61	Nat	Institutional strengthening	0	213,160	125,608	Oct. 92
6 COSTA RICA	CSR/SEV/08/TRA/07	INT/92/G61	OPS	Consultants: CP implementation	0	50,000	28,136	Oct. 92
7 COSTA RICA	CSR/SOL/08/TRA/06	COS/92/G63	Nat	Seminar/workshop in solvents	0	21,120	10,000	Oct. 92
COSTA RICA	's Subtotal :				0	433,400	260,075	
1 CUBA	CUB/REF/13/DEM/03	INT/94/G61	OPS	Phaseout strategy: Refrigeration	0	30,000	15,979	July 94
2 CUBA	CUB/REF/15/TAS/04	CUB/94/G61	OPS	National programme: refrig.	49	169,000	100,000	Dec. 94
3 CUBA	CUB/SEV/08/CPG/01	INT/92/G61	OPS	Country programme preparation	0	20,000	15,000	Oct. 92
4 CUBA	CUB/SEV/10/INS/02	CUB/93/G61	Nat	Institutional strengthening	0	172,000	76,000	June 93
CUBA	's Subtotal :				49	391,000	206,979	
1 ECUADOR	ECU/REF/06/TRA/03	INT/92/G61	OPS	CFC refrigerant conversion trng.	0	140,000	140,000	Feb. 92
ECUADOR	's Subtotal :				0	140,000	140,000	
1 EGYPT	EGY/FOA/08/INV/05	EGY/92/G61	OPS	Misr Foams Flexible PUF inv.	21	497,000	500,489	Oct. 92
2 EGYPT	EGY/FOA/08/INV/06	EGY/92/G61	OPS	Taki-Vita rigid PUF inv project	50	352,500	352,500	Oct. 92
3 EGYPT	EGY/FOA/08/INV/07	EGY/92/G61	OPS	Technopol molded PUF inv. proj.	55	645,000	676,211	Oct. 92
4 EGYPT	EGY/FOA/09/INV/10	EGY/92/G61	OPS	Al-Sharif Plastic XPS foam inv.	75	498,000	13,880	Mar. 93
5 EGYPT	EGY/FOA/09/INV/11	EGY/92/G61	OPS	Misr Foams molded PUF inv. proj.	28	275,000	284,431	Mar. 93
6 EGYPT	EGY/FOA/10/INV/15	EGY/93/G61	OPS	Mobica molded PUF inv. project	20	434,000	397,029	June 93
7 EGYPT	EGY/FOA/10/INV/16	EGY/93/G62	OPS	Olympic rigid PUF inv. project	75	940,000	895,000	June 93
8 EGYPT	EGY/FOA/11/INV/18	EGY/93/G64	OPS	SECC rigid PUF inv. project	15	85,000	85,000	Nov. 93
9 EGYPT	EGY/FOA/11/INV/19	EGY/93/G65	OPS	Dekheila Chemical flex PUF inv.	130	650,000	440,000	Nov. 93
10 EGYPT	EGY/FOA/11/INV/21	EGY/93/G63	OPS	Horse Foam flex PUF inv. project	120	385,000	295,034	Nov. 93
11 EGYPT	EGY/FOA/12/INV/22	EGY/94/G62	OPS	Flexible PUF inv. (2 plants)	170	525,000	426,000	Mar. 94
12 EGYPT	EGY/FOA/12/INV/26	EGY/94/G61	OPS	Rigid PUF inv. proj. (5 plants)	44	870,000	340,000	Mar. 94
13 EGYPT	EGY/FOA/15/INV/31	EGY/94/G73	OPS	El-Tawil Flexible Slabstock PUF	36	121,000	0	Dec. 94
14 EGYPT	EGY/FOA/15/INV/32	EGY/94/G76	OPS	7 plants: rigid PU foam inv proj	69	780,000	0	Dec. 94
15 EGYPT	EGY/HAL/12/TAS/23	INT/94/G61	OPS	TA: National halons action plan	0	25,000	26,730	Mar. 94
16 EGYPT	EGY/REF/08/INV/09	EGY/92/G61	OPS	Koldair Co. refrig. inv. project	18	272,000	250,021	Oct. 92
17 EGYPT	EGY/REF/12/INV/21	EGY/94/G63	OPS	Com. ref. inv project (5 plants)	225	2,100,000	685,000	Mar. 94
18 EGYPT	EGY/REF/15/INV/34	EGY/94/G74	OPS	2 plants: com. ref. inv project	32	1,023,000	200,000	Dec. 94
19 EGYPT	EGY/SEV/04/TRA/02	INT/91/G61	OPS	Study tours: govt./industry	0	51,000	44,090	June 91
20 EGYPT	EGY/SEV/06/PRP/03	EGY/92/G61	OPS	Project preparation assistance	0	100,000	100,319	Feb. 92
21 EGYPT	EGY/SEV/11/PRP/20	INT/93/G61	OPS	Project Preparation Assistance	0	75,000	75,000	Nov. 93
EGYPT	's Subtotal :				1,283	10,703,500	6,086,734	
1 GHANA	GHA/FOA/08/TAS/03	INT/92/G61	OPS	TA: flexible PUF technology	0	85,000	70,186	Oct. 92
2 GHANA	GHA/FOA/12/INV/07	GHA/94/G61	OPS	Flex PUF inv. proj. (4 plants)	316	345,000	0	Mar. 94
3 GHANA	GHA/REF/04/TRA/02	INT/91/G61	OPS	Refrig training prog/technicians	0	5,200	5,200	June 91
4 GHANA	GHA/REF/08/TAS/04	INT/92/G61	OPS	TA: better service/maint. refrig	0	328,000	230,350	Oct. 92
5 GHANA	GHA/SEV/08/INS/05	GHA/92/G61	Nat	Institutional Strengthening	0	160,000	60,000	Oct. 92
GHANA	's Subtotal :				316	923,200	365,736	
1 GUATEMALA	GUA/REF/15/INV/05	GUA/94/G61	OPS	IMCA: CFC-11/12 in com. refr.	4	155,017	0	Dec. 94
2 GUATEMALA	GUA/REF/15/INV/06	GUA/94/G62	OPS	REFRIGUA: CFC-11/12 in com. ref.	24	194,866	0	Dec. 94
3 GUATEMALA	GUA/SEV/11/PRP/05	INT/93/G61	OPS	Project preparation assistance	0	30,000	30,261	Nov. 93

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GUATEMALA	's Subtotal :				28	379,883	30,261	
1 INDIA	IND/FOA/12/INV/16	IND/94/G62	Nat	Camphor/Allied XPE foam inv pro.	120	280,000		0 Mar. 94
2 INDIA	IND/FOA/12/INV/17	IND/94/G63	Nat	Sunpra rigid PUF panels inv proj	20	414,000		0 Mar. 94
3 INDIA	IND/FOA/12/INV/18	IND/94/G61	Nat	Eagle Flask rigid PUF inv proj	20	365,000		0 Mar. 94
4 INDIA	IND/FOA/13/INV/27	INT/94/G65	Nat	Bakelite phenolic foam inv proj.	58	367,000		0 July 94
5 INDIA	IND/FOA/13/INV/30	INT/94/G66	Nat	U-Foam PUF inv. project	35	328,500		0 July 94
6 INDIA	IND/FOA/13/TAS/29	INT/94/G67	Nat	Strategy/action prog. for foams	0	200,000		0 July 94
7 INDIA	IND/HAL/13/DEM/28	INT/94/G64	Nat	Demo/eval/TA: non-halons technol	0	309,000		0 July 94
8 INDIA	IND/SEV/08/INS/02	IND/92/G61	Nat	Institutional strengthening	0	430,600	166,970	Oct. 92
9 INDIA	IND/SEV/08/PRP/01	INT/92/G61	OPS	Project preparation assistance	0	100,000	81,661	Oct. 92
10 INDIA	IND/SEV/09/CPG/03	INT/93/G61	OPS	Country programme preparation	0	200,000	200,000	Mar. 93
11 INDIA	IND/SEV/11/TAS/11	IND/93/G61	Nat	ODS small-scale plant survey	0	120,000	108,000	Nov. 93
12 INDIA	IND/SEV/12/PRP/19	INT/94/G61	OPS	Project preparation assistance	0	100,000	37,127	Mar. 94
INDIA	's Subtotal :				253	3,214,100	593,758	
1 INDONESIA	IDS/SEV/08/CPG/01	INT/92/G61	OPS	Country programme preparation	0	200,000	200,000	Oct. 92
2 INDONESIA	IDS/SEV/10/INS/05	INS/93/G61	Nat	Institutional strengthening	0	314,780	113,260	June 93
3 INDONESIA	IDS/SEV/11/PRP/06	INT/93/G61	OPS	Project Preparation Assistance	0	100,000	100,000	Nov. 93
4 INDONESIA	IDS/SEV/15/PRP/28	INT/94/G61	OPS	Project preparation assistance	0	100,000	37,127	Dec. 94
5 INDONESIA	IDS/SOL/15/INV/25	INS/94/G61	OPS	PT-KGD TCA/CFC-11 elimination	42	88,000		0 Dec. 94
INDONESIA	's Subtotal :				42	802,780	450,387	
1 IRAN	IRA/SEV/04/TAS/01	INT/91/G61	OPS	ODS reconnaissance survey	0	30,350	30,350	June 91
2 IRAN	IRA/SEV/06/CPG/02	INT/92/G61	OPS	Country programme preparation	0	35,000	35,000	Feb. 92
3 IRAN	IRA/SEV/08/INS/04	IRA/92/G61	Nat	Institutional strengthening	0	200,200	62,500	Oct. 92
4 IRAN	IRA/SEV/08/PRP/05	INT/92/G61	OPS	Project preparation assistance	0	17,935	17,935	Oct. 92
IRAN	's Subtotal :				0	283,485	145,785	
1 JAMAICA	JAM/SEV/14/PRP/02	INT/94/G61	OPS	Project preparation assistance	0	30,000	12,510	Sep. 94
JAMAICA	's Subtotal :				0	30,000	12,510	
1 JORDAN	JOR/ARS/04/TAS/01	INT/91/G61	OPS	TA: aerosols sector	0	29,000	29,000	June 91
2 JORDAN	JOR/ARS/06/TAS/12	INT/92/G61	OPS	LPG deodorization for aerosols	0	12,000	12,000	Feb. 92
JORDAN	's Subtotal :				0	41,000	41,000	
1 KENYA	KEN/REF/10/TRA/05	INT/91/G61	OPS	Demo/training prog. in refrig/AC	0	9,850	9,852	June 91
2 KENYA	KEN/SEV/06/CPG/02	INT/92/G61	OPS	Country programme preparation	0	25,000	22,730	Feb. 92
3 KENYA	KEN/SEV/09/INS/04	KEN/93/G61	Nat	Institutional strengthening	0	175,000	43,000	Mar. 93
KENYA	's Subtotal :				0	209,850	75,582	
1 MALAYSIA	MAL/ARS/12/TAS/30	MAL/94/G68	OPS	Aerosols: Safety & tech. prog.	0	145,700	17,250	Mar. 94
2 MALAYSIA	MAL/FOA/10/INV/11	MAL/93/G62	OPS	Jumaya XPS foam sheet inv proj	150	235,811	235,873	June 93
3 MALAYSIA	MAL/FOA/11/INV/15	MAL/93/G63	OPS	Key Asset Integral Skin PUF inv.	50	690,000	690,000	Nov. 93
4 MALAYSIA	MAL/FOA/11/INV/16	MAL/93/G65	OPS	Insafom Co. PUF inv. project	30	310,000	310,000	Nov. 93
5 MALAYSIA	MAL/FOA/11/INV/17	MAL/93/G66	OPS	Island Resources PUF inv. proj.	30	230,000	230,000	Nov. 93
6 MALAYSIA	MAL/FOA/11/INV/21	MAL/93/G64	OPS	Assoc. Air-Pack XPE/XPS foam inv	50	234,000	224,110	Nov. 93
7 MALAYSIA	MAL/FOA/12/INV/22	MAL/94/G62	OPS	Cycle World PUF panels inv proj	45	353,000	353,000	Mar. 94
8 MALAYSIA	MAL/FOA/12/INV/23	MAL/94/G65	OPS	Pulai-Lampak XPE foam sheet inv	50	355,000	355,000	Mar. 94
9 MALAYSIA	MAL/FOA/12/INV/24	MAL/94/G63	OPS	P.U.Tech PUF investment project	24	198,000	183,000	Mar. 94
10 MALAYSIA	MAL/FOA/12/INV/25	MAL/94/G66	OPS	PU Mate: Integral Skin PUF inv	10	113,000	113,000	Mar. 94
11 MALAYSIA	MAL/FOA/12/INV/26	MAL/94/G64	OPS	Pexafoam:flex slabstock PUF inv.	120	195,000	195,000	Mar. 94
12 MALAYSIA	MAL/FOA/12/INV/27	MAL/94/G67	OPS	N.Y.L. flex slabstock PUF inv.	55	130,000	130,000	Mar. 94
13 MALAYSIA	MAL/FOA/12/INV/33	MAL/94/G70	OPS	Small-scale flex PUF inv. proj.	80	1,045,000	37,125	Mar. 94
14 MALAYSIA	MAL/FOA/13/INV/34	MAL/94/G72	OPS	Allied Foams: cold cure PUF inv.	25	276,000		0 July 94
15 MALAYSIA	MAL/FOA/13/INV/35	MAL/94/G73	OPS	Phoenix Base: flexible PUF inv.	61	165,000	165,000	July 94
16 MALAYSIA	MAL/FOA/13/INV/38	MAL/94/G74	OPS	Wong Bros. rigid PUF panels inv.	35	299,000		0 July 94
17 MALAYSIA	MAL/FOA/13/INV/39	MAL/94/G75	OPS	Eversoft: flex molded PUF inv	30	185,000		0 July 94
18 MALAYSIA	MAL/FOA/13/INV/40	MAL/94/G76	OPS	Nian Aik cold cure flex PUF inv.	30	245,000		0 July 94
19 MALAYSIA	MAL/FOA/13/INV/41	MAL/94/G77	OPS	Pangkat com. refrig. PUF panels	20	210,000		0 July 94
20 MALAYSIA	MAL/FOA/15/INV/45	MAL/94/G91	OPS	Shaga Cooling: rigid PU panels	24	190,000		0 Dec. 94
21 MALAYSIA	MAL/FOA/15/INV/46	MAL/94/G92	OPS	Saferay: rigid foam inv. project	11	246,000		0 Dec. 94
22 MALAYSIA	MAL/FOA/15/INV/47	MAL/94/G93	OPS	Ricwil: Pipe insulation inv.	25	118,000		0 Dec. 94
23 MALAYSIA	MAL/FOA/15/INV/48	MAL/94/G94	OPS	Dream Product: moulded/flex PUF	15	66,500		0 Dec. 94
24 MALAYSIA	MAL/FOA/15/INV/49	MAL/94/G95	OPS	Rigid Foam: foam panels inv.	19	335,000		0 Dec. 94
25 MALAYSIA	MAL/FOA/15/INV/50	MAL/94/G96	OPS	Leading Ref.: rigid PUF inv proj	10	214,000		0 Dec. 94
26 MALAYSIA	MAL/REF/04/TRA/01	INT/91/G61	OPS	Training in MAC sector	0	50,000	30,000	June 91
27 MALAYSIA	MAL/REF/12/INV/29	MAL/94/G71	OPS	Sharp-Roxy home refrig. inv.	65	962,000	962,000	Mar. 94

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3 SRI LANKA	SRL/SEV/14/PRP/03	INT/94/G61	OPS	Project Preparation Assistance	0	30,000	0	Sep. 94
SRI LANKA	's Subtotal :				0	219,680	94,040	
1 THAILAND	THA/ARS/15/TAS/38	THA/94/G68	OPS	TA and safety prog: aerosols	0	127,000	0	Dec. 94
2 THAILAND	THA/FOA/11/INV/20	THA/93/G62	OPS	Thermaxflex XPS foam inv. project	30	220,000	6,516	Nov. 93
3 THAILAND	THA/FOA/12/INV/25	THA/94/G63	OPS	XPS foam sheet inv proj (2 cos.)	100	455,000	364,000	Mar. 94
4 THAILAND	THA/FOA/12/INV/26	THA/94/G62	OPS	Henger Panel rigid PUF inv proj.	15	257,500	190,000	Mar. 94
5 THAILAND	THA/FOA/12/INV/27	THA/94/G61	OPS	Mic-Cell XPE foam sheet inv proj	44	339,500	139,300	Mar. 94
6 THAILAND	THA/FOA/12/INV/29	THA/94/G64	OPS	Modular Compound rigid PUF inv.	30	508,000	355,000	Mar. 94
7 THAILAND	THA/FOA/13/INV/30	THA/94/G65	OPS	Lucky flexible PUF slabstock inv	187	605,000	0	July 94
8 THAILAND	THA/FOA/13/INV/31	THA/94/G66	OPS	Ponsri XPS foam sheet inv proj	100	340,000	0	July 94
9 THAILAND	THA/FOA/15/INV/35	THA/94/G69	OPS	Thai Union: PUF/cold cure inv.	45	525,000	0	Dec. 94
10 THAILAND	THA/FOA/15/INV/36	THA/94/G70	OPS	Somboon: PUF/cold cure inv.	100	225,000	0	Dec. 94
11 THAILAND	THA/FOA/15/INV/37	THA/94/G71	OPS	Karn Yang: flex PUF slabstock	110	170,000	0	Dec. 94
12 THAILAND	THA/REF/13/INV/32	THA/94/G67	OPS	Sanden com. refrig inv project	30	533,800	241,500	July 94
13 THAILAND	THA/SEV/04/TRA/02	INT/91/G61	OPS	Training: Govt technical staff	0	50,000	53,785	June 91
14 THAILAND	THA/SEV/09/INS/08	THA/93/G61	Nat	Institutional strengthening	0	400,000	143,000	Mar. 93
15 THAILAND	THA/SEV/10/PRP/11	INT/93/G61	OPS	Project Preparation Assistance	0	50,000	50,000	June 93
16 THAILAND	THA/SEV/15/PRP/39	INT/94/G61	OPS	Project preparation assistance	0	100,000	43,801	Dec. 94
THAILAND	's Subtotal :				791	4,905,800	1,586,902	
1 TRINIDAD/TOBA	TRT/SEV/04/TRA/01	INT/91/G61	OPS	Training and tech. assistance	0	53,800	53,902	June 91
2 TRINIDAD/TOBA	TRT/SEV/06/CPG/03	INT/92/G61	OPS	Country programme preparation	0	25,000	26,200	Feb. 92
TRINIDAD/TOBA	's Subtotal :				0	78,800	80,102	
1 URUGUAY	URU/FOA/13/INV/06	URU/94/G62	Nat	Rigid PUF (spray) inv (7 plants)	71	665,000	323,400	July 94
2 URUGUAY	URU/FOA/13/INV/09	URU/94/G63	Nat	Flexible PUF inv proj (5 plants)	17	200,000	29,527	July 94
3 URUGUAY	URU/REF/12/TAS/04	URU/94/G61	Nat	TA/demo prog on recovery/recycle	22	175,000	138,500	Mar. 94
4 URUGUAY	URU/SEV/04/TAS/01	INT/91/G61	OPS	Consultant: technical assistance	0	13,050	14,042	June 91
5 URUGUAY	URU/SEV/08/CPG/02	INT/92/G61	OPS	Country programme preparation	0	23,894	25,444	Oct. 92
6 URUGUAY	URU/SEV/10/INS/03	URU/93/G61	Nat	Institutional strengthening	0	173,800	105,883	June 93
7 URUGUAY	URU/SEV/13/PRP/08	INT/94/G61	OPS	Project prep: foams and halons	0	30,000	17,510	July 94
URUGUAY	's Subtotal :				110	1,280,744	654,306	
1 VENEZUELA	VEN/HAL/09/TAS/09	INT/93/G61	OPS	Workshops: Halon recycle/banking	0	26,800	23,100	Mar. 93
2 VENEZUELA	VEN/REF/04/TRA/01	INT/91/G61	OPS	TA/training: refrig technicians	0	30,000	19,020	June 91
3 VENEZUELA	VEN/REF/09/PRP/10	INT/93/G61	OPS	Workshops: Refrig proj prep.	0	19,800	19,800	Mar. 93
4 VENEZUELA	VEN/REF/09/TAS/11	INT/93/G61	OPS	Workshops: Non-ODS A/C systems	0	26,200	13,200	Mar. 93
5 VENEZUELA	VEN/REF/09/TAS/12	INT/93/G61	OPS	Pilot prog CFC-12 recov/recycle	8	100,000	100,000	Mar. 93
6 VENEZUELA	VEN/REF/12/DEM/14	INT/93/G61	OPS	Pilot prog MAC CFC-12 recov/recy	0	13,400	13,400	Mar. 94
7 VENEZUELA	VEN/REF/15/TAS/22	VEN/94/G61	OPS	Pilot Project MACS (phase 2)	75	220,000	200,500	Dec. 94
8 VENEZUELA	VEN/SEV/09/INS/08	VEN/92/G61	Nat	Institutional strengthening	0	329,192	273,492	Mar. 93
9 VENEZUELA	VEN/SEV/11/CPG/17	INT/93/G61	OPS	Country programme finalization	0	12,000	5,587	Nov. 93
10 VENEZUELA	VEN/SEV/15/PRP/21	INT/94/G61	OPS	Project preparation assistance	0	40,000	45,445	Dec. 94
VENEZUELA	's Subtotal :				83	817,392	713,544	
1 VIETNAM	VIE/SEV/12/PRP/01	INT/94/G61	OPS	Project preparation assistance	0	100,000	50,288	Mar. 94
VIETNAM	's Subtotal :				0	100,000	50,288	
1 REGIONAL	AFR/FOA/06/TRA/03	INT/92/G61	OPS	Reg. foam workshop (M.E./Africa)	0	52,500	38,087	Feb. 92
2 REGIONAL	ASP/FOA/06/TRA/05	INT/92/G61	OPS	Reg foam workshop (Asia/Pacific)	0	52,500	36,828	Feb. 92
3 REGIONAL	ASP/REF/06/TRA/03	INT/92/G61	OPS	Reg MAC train/demo prog (Asia)	0	45,000	0	Feb. 92
4 REGIONAL	GLO/HAL/06/TRA/16	INT/92/G61	OPS	Halons training prog (Africa/ME)	0	60,000	39,012	Feb. 92
5 REGIONAL	GLO/REF/06/TRA/03	INT/92/G61	OPS	Reg MAC train/demo prog (MEast)	0	45,000	0	Feb. 92
6 REGIONAL	LAC/FOA/06/TRA/02	INT/92/G61	OPS	Reg. foam workshop (L. America)	0	52,500	53,812	Feb. 92
7 REGIONAL	LAC/HAL/06/TRA/03	INT/92/G61	OPS	Halons training prog (L.America)	0	60,000	44,842	Feb. 92
8 REGIONAL	LAC/REF/06/TRA/04	INT/92/G61	OPS	Reg. MAC train/demo prog (LA)	0	45,000	0	Feb. 92
9 REGIONAL	LAC/REF/06/TRA/05	INT/92/G61	OPS	Train/demo prog refrig (LA)	0	23,000	23,047	Feb. 92
REGIONAL	's Subtotal :				0	435,500	235,628	
1 GLOBAL	GLO/ARS/06/TAS/05	INT/92/G61	OPS	TA: aerosols	0	60,000	44,212	Feb. 92
2 GLOBAL	GLO/FOA/06/TAS/08	INT/92/G61	OPS	TA: flexible PUF	0	40,000	40,000	Feb. 92
3 GLOBAL	GLO/FOA/06/TAS/17	INT/92/G61	OPS	TA: rigid PUF	0	60,000	60,000	Feb. 92
4 GLOBAL	GLO/FOA/14/TAS/69	INT/94/G61	OPS	TA: Small foam phaseout strategy	0	50,000	14,763	Sep. 94
5 GLOBAL	GLO/HAL/06/DEM/04	INT/92/G61	OPS	Buy 40 H-1211 recycle machines	0	250,000	250,000	Feb. 92
6 GLOBAL	GLO/HAL/06/TAS/10	INT/92/G61	OPS	TA: halons	0	70,000	70,000	Feb. 92
7 GLOBAL	GLO/HAL/08/TAS/23	INT/92/G61	OPS	Global Halons Project	0	345,133	121,178	Oct. 92
8 GLOBAL	GLO/HAL/13/TAS/37	INT/94/G61	OPS	Halon small country action plan	0	50,000	50,000	July 94

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Country	MP-Number	UNDP-Nr	Ex.Ag	Project Title	ODS tonnes	Budget US\$	Disbursed US\$	Date Approved
28 MALAYSIA	MAL/REF/13/INV/36	MAL/94/G78	OPS	Lian Pang com refrig product inv	10	201,000	0	July 94
29 MALAYSIA	MAL/REF/13/INV/37	MAL/94/G79	OPS	United com. refrig. products inv	71	351,200	0	July 94
30 MALAYSIA	MAL/REF/13/INV/42	MAL/94/G80	OPS	OYL refrig. manuf. inv project	22	625,100	170,000	July 94
31 MALAYSIA	MAL/SEV/09/INS/08	MAL/93/G61	Nat	Institutional strengthening	0	322,520	115,920	Mar. 93
32 MALAYSIA	MAL/SEV/10/PRP/14	INT/93/G61	OPS	Project preparation assistance	0	50,000	54,438	June 93
33 MALAYSIA	MAL/SEV/10/TRA/13	INT/93/G61	OPS	TA: National ODS Conference	0	40,000	40,000	June 93
34 MALAYSIA	MAL/SEV/12/PRP/31	INT/94/G61	OPS	Project preparation assistance	0	100,000	100,000	Mar. 94
35 MALAYSIA	MAL/SEV/15/PRP/52	INT/94/G61	OPS	Project preparation assistance	0	100,000	6,000	Dec. 94
36 MALAYSIA	MAL/SOL/11/INV/18	MAL/93/G67	OPS	Ngai Cheong solvent cleaning inv	23	63,480	63,480	Nov. 93
37 MALAYSIA	MAL/SOL/11/INV/19	MAL/93/G68	OPS	Matsushita (main) solvents proj.	10	113,570	113,570	Nov. 93
38 MALAYSIA	MAL/SOL/11/INV/20	MAL/93/G69	OPS	Matsushita (P. Klang) solvents	10	173,280	173,280	Nov. 93
39 MALAYSIA	MAL/SOL/12/INV/21	MAL/94/G69	OPS	Proton auto cleaning inv project	195	700,439	700,439	Mar. 94
40 MALAYSIA	MAL/SOL/12/INV/28	MAL/94/G61	OPS	San Matech IC frame clean. proj.	5	141,100	0	Mar. 94
MALAYSIA 's Subtotal :					1,410	10,777,700	5,767,485	
1 MAURITIUS	MAR/ARS/12/INV/03	MAR/94/G61	OPS	Comanu aerosols conversion proj.	25	62,150	0	Mar. 94
2 MAURITIUS	MAR/REF/15/INV/05	MAR/94/G62	OPS	Blyfridge: dom. ref. inv project	2	197,208	0	Dec. 94
3 MAURITIUS	MAR/REF/15/INV/06	MAR/94/G63	OPS	Bahemia: dom. ref. inv. project	3	213,500	0	Dec. 94
4 MAURITIUS	MAR/SEV/12/PRP/04	INT/94/G61	OPS	Project preparation assistance	0	25,000	25,000	Mar. 94
MAURITIUS 's Subtotal :					30	497,858	25,000	
1 MEXICO	MEX/HAL/06/TAS/06	INT/92/G61	OPS	Preparatory study on halons	0	25,000	27,223	Feb. 92
2 MEXICO	MEX/REF/15/INV/19	MEX/94/G61	OPS	MABE: domestic ref. inv. project	391	4,495,689	0	Dec. 94
3 MEXICO	MEX/REF/15/INV/20	MEX/94/G64	OPS	VITRO: domestic ref. inv. proj.	415	3,639,826	0	Dec. 94
4 MEXICO	MEX/SEV/04/PRP/03	INT/91/G61	OPS	Inv. project TOR preparation	0	50,000	52,277	June 91
5 MEXICO	MEX/SEV/11/PRP/14	INT/93/G61	OPS	Project Preparation Assistance	0	50,000	50,000	Nov. 93
6 MEXICO	MEX/SEV/14/PRP/18	INT/94/G61	OPS	Project preparation assistance	0	100,000	77,985	Sep. 94
7 MEXICO	MEX/SOL/15/INV/21	MEX/94/G67	OPS	Lucas Diesel solvents inv. proj.	3	168,000	0	Dec. 94
8 MEXICO	MEX/SOL/15/INV/22	MEX/94/G68	OPS	Procesadora solvents inv. proj.	3	71,337	0	Dec. 94
MEXICO 's Subtotal :					812	8,599,852	207,485	
1 NIGERIA	NIR/SEV/04/TRA/02	INT/91/G61	OPS	Nat. non-ODS industry seminar	0	49,650	26,449	June 91
2 NIGERIA	NIR/SEV/09/INS/04	NIR/93/G61	Nat	Institutional strengthening	0	300,000	111,174	Mar. 93
NIGERIA 's Subtotal :					0	349,650	137,623	
1 PAKISTAN	PAK/SEV/14/INS/05	PAK/94/G61	Nat	Institutional strengthening	0	259,000	0	Sep. 94
PAKISTAN 's Subtotal :					0	259,000	0	
1 PANAMA	PAN/FOA/13/INV/05	PAN/94/G61	OPS	Flex/rigid PUF inv. (3 plants)	26	155,000	0	July 94
2 PANAMA	PAN/SEV/11/PRP/03	INT/93/G61	OPS	Project preparation assistance	0	30,000	24,181	Nov. 93
PANAMA 's Subtotal :					26	185,000	24,181	
1 PERU	PER/REF/15/INV/03	PER/94/G61	OPS	ALFA: domestic ref. inv. project	7	252,727	50,000	Dec. 94
2 PERU	PER/REF/15/INV/04	PER/94/G62	OPS	ANDINA: domestic ref. inv. proj.	5	229,816	50,000	Dec. 94
3 PERU	PER/REF/15/INV/05	PER/94/G63	OPS	COLDEX: domestic ref. inv. proj.	67	748,966	50,000	Dec. 94
4 PERU	PER/REF/15/INV/06	PER/94/G64	OPS	INLENSA: domestic ref. inv. proj.	6	201,443	0	Dec. 94
5 PERU	PER/REF/15/INV/07	PER/94/G65	OPS	INRESA: domestic ref. inv. proj.	17	267,641	50,000	Dec. 94
6 PERU	PER/REF/15/INV/08	PER/94/G66	OPS	INDUSEL: domestic ref. inv. pro.	35	412,098	0	Dec. 94
7 PERU	PER/SEV/13/PRP/02	INT/94/G61	OPS	Project preparation assistance	0	100,000	86,268	July 94
PERU 's Subtotal :					137	2,212,691	286,268	
1 PHILIPPINES	PHI/FOA/12/INV/23	PHI/94/G62	OPS	XPS foam sheet inv (3 plants)	24	505,000	280,000	Mar. 94
2 PHILIPPINES	PHI/FOA/12/INV/24	PHI/94/G61	OPS	Nikon rigid PUF (thermoware) inv	15	315,000	155,000	Mar. 94
3 PHILIPPINES	PHI/FOA/12/INV/26	PHI/94/G63	OPS	Small flex PUF mfg. inv. project	35	745,000	80,000	Mar. 94
4 PHILIPPINES	PHI/FOA/13/INV/27	PHI/94/G64	OPS	Foamcraft flex PUF slabstock inv	90	185,000	0	July 94
5 PHILIPPINES	PHI/FOA/13/INV/28	PHI/94/G65	OPS	Metal Forming Corp. PUF inv proj	50	305,000	114,000	July 94
6 PHILIPPINES	PHI/FOA/13/INV/30	PHI/94/G66	OPS	Styrotech XPS foam sheet inv.	25	60,000	0	July 94
7 PHILIPPINES	PHI/REF/04/TRA/01	INT/91/G61	OPS	Training prog: refrig servicing	0	64,000	62,297	June 91
8 PHILIPPINES	PHI/REF/13/INV/29	PHI/94/G67	OPS	Unimagna com. refrig inv. proj.	30	1,015,700	621,526	July 94
9 PHILIPPINES	PHI/SEV/08/CPG/05	INT/92/G61	OPS	Country programme preparation	0	79,640	79,640	Oct. 92
10 PHILIPPINES	PHI/SEV/11/PRP/22	INT/93/G61	OPS	Project preparation assistance	0	50,000	50,000	Nov. 93
11 PHILIPPINES	PHI/SEV/11/TAS/20	INT/93/G61	OPS	ODS survey: small-scale industry	0	100,000	43,750	Nov. 93
12 PHILIPPINES	PHI/SEV/15/PRP/31	INT/94/G61	OPS	Project preparation assistance	0	50,000	23,634	Dec. 94
PHILIPPINES 's Subtotal :					269	3,474,340	1,509,847	
1 SRI LANKA	SRL/SEV/06/CPG/01	INT/92/G61	OPS	Country programme preparation	0	35,000	35,000	Feb. 92
2 SRI LANKA	SRL/SEV/12/INS/02	SRI/94/G61	Nat	Institutional strengthening	0	154,680	59,040	Mar. 94

ONGOING UNDP PROJECTS UNDER THE MULTILATERAL FUND

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Country	MP-Number	UNDP-Nr	Ex.Ag	Project Title	ODS tonnes	Budget US\$	Disbursed US\$	Date Approved
9	GLOBAL	GLO/REF/06/TAS/06	INT/92/G61	OPS	TA: MAC	0	50,000	13,623 Feb. 92
10	GLOBAL	GLO/REF/06/TAS/07	INT/92/G61	OPS	TA: refrigeration	0	90,000	90,000 Feb. 92
11	GLOBAL	GLO/REF/08/TAS/24	INT/92/G61	OPS	Global MAC project	0	318,584	277,117 Oct. 92
12	GLOBAL	GLO/SEV/06/TRA/11	INT/92/G61	OPS	3 national policy workshops	0	45,000	27,240 Feb. 92
13	GLOBAL	GLO/SEV/06/TRA/12	INT/92/G61	OPS	2 study tours: govt/industry rep	0	50,000	23,531 Feb. 92
14	GLOBAL	GLO/SEV/06/TRA/13	INT/92/G61	OPS	Participate: workshops/meetings	0	140,000	131,737 Feb. 92
15	GLOBAL	GLO/SEV/12/TAS/63	INT/94/G61	OPS	Safety assessment: foam, solvent	0	25,000	28,000 Mar. 94
16	GLOBAL	GLO/SOL/06/TAS/09	INT/92/G61	OPS	TA: solvents	0	50,000	50,000 Feb. 92
's Subtotal :					0	1,693,717	1,291,401	

GRAND TOTAL :

8,541 79,576,093 27,510,487