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1995 UNIDO WORK PROGRAMME



UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION

WORK PROGRAMME

for 1995

Introduction

This Work Programme for the Year 1995 has been prepared based on on-going and foreseen activities. It is meant to provide some indication on where the UNIDO programme is moving in 1995, and to establish a rough financial resource equipment estimate for implementing such a programme. This will hopefully assist the Fund Secretariat and the Executive Committee in meeting the total resource requirement for the entire phase-out programme for 1995 and setting up an encashment schedule for the promissory notes to be introduced in 1995.

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| Section I: | examines the major thrust of UNIDO's activities in 1995 by describing the type of activities to be carried under specific sectors. |
| Section II: | geographical distribution of future activities. |
| Section III: | contains pipeline projects and targeted level of new operations. |
| Section IV: | a brief overview on the implementation process of approved projects. |
| Section V: | the new policy to be undertaken in 1995 |
| Section VI: | Inter-agency cooperation |
| Section VII: | Project proposals with a budget less than US\$500,000 |

Section I

UNIDO's Planned Activities in 1995

UNIDO will continue concentrating on formulating and implementing investment projects with a particular focus on refrigeration and foam sectors. This can be attributed to:

- the well established experience UNIDO has acquired at the plant level in these two sectors.
- the government request for conversion of production lines in these two sectors which are still considered as high priority in many developing countries.

However, recent requests in the solvents, aerosols and halons sectors will give UNIDO an opportunity to face a most interesting challenge particularly in small scale industries. It is also expected from the discussions held with representatives of ODS producing countries that UNIDO will be requested to formulate and implement investment projects in the production of ODS alternatives.

UNIDO will introduce a hydrocarbon technology in the refrigeration sector in at least two projects in China (production of domestic refrigerators and production of compressors) as well as liquid carbon dioxide in the flexible foam sector.

This will certainly enlarge the choice of technologies available in each sector and give a better understanding of effectiveness both technically and financially.

In addition, it is worth mentioning that UNIDO will undertake two country programme exercises in Romania and Macedonia, while continuing to cooperate with UNEP in country programme exercises for low-ODS consuming countries. In the same line, some training projects are foreseen for this category of Article 5 countries.

Since, in the meantime, UNIDO is still receiving requests from many countries, it is not clear how to deal with these between now and the next session at which such new requests can be accepted by the Executive Committee. For this reason, there is intention to seek a directive from the Executive Committee how to react to such requests.

Section II

Geographical distribution of UNIDO's future activities

It appears from the requests received so far that UNIDO will be active in other countries like Algeria, Barbados, Brazil, Burkina Faso, Côte d'Ivoire, Indonesia, Kenya, Lebanon, Macedonia, Malaysia, Mozambique, Nigeria, Pakistan, Philippines, Romania, Seychelles, Sudan, Swaziland, Tanzania, Vietnam, Zambia and Zimbabwe while expanding its activities in Cameroon, China, India, Iran, Egypt, Jordan and Syria. It is also anticipated that UNIDO's involvement will grow in the near future in Latin American countries like Brazil, Chile, Ecuador, Peru and Mexico and in Asia in Malaysia, Philippines and Thailand.

As for the size of projects to be handled, UNIDO will continue formulating large investment projects while, on the other hand, the trend shows that its main activities will switch to medium and small-scale industries starting with India and Indonesia and in low ODS-consuming countries.

As such, UNIDO will be more active in many African countries where such projects are foreseen and in Asia and Latin-America for the medium and large scale industries.

If this is confirmed in the near future, UNIDO will definitely be very active in all regions covered by the Multilateral Fund: Africa, Asia, Eastern Europe, Latin America and the Caribbean.

Section III

Pipeline Projects (indicative list)

As a result of the work of UNIDO in the past two years, a series of investment projects will be under implementation or formulation in 1995:

1. Projects under implementation:

14 in domestic refrigeration in Algeria (1), Cameroon (1), Egypt (4), Iran (1), Jordan (3), Syria (3) and Vietnam (1);

2 projects in the foam sector in Argentina;

1 project in the halon sector in China;

1 project in the solvents sector in India

2. Projects under formulation:

18 projects in the domestic refrigeration sector: Brazil (2), Cameroon (1), China (2), Iran (1), Jordan (1), Kenya (1), Lebanon (2), Nigeria (1), Romania (2), Syria (1), Swaziland (1), Tanzania (1), Vietnam (1) and Zimbabwe (1).

34 projects in the foam sector: Algeria (2), Brazil (2), Iran (2), India (4), Jordan (1), Lebanon (1), Malaysia (6), Sudan (1), Syria (5), and Turkey (10);

27 projects in the aerosols sector in Algeria (1), India (24), Lebanon (1) and Sudan (1);

1 projects in the tobacco sector in China;

8 projects in the Halon sector in China (5), Jordan (1 halon banking); Seychelles (1 halon banking) and Zimbabwe (1 halon banking);

56 projects in the solvents sector in Algeria (1), Brazil (10), China (15), Egypt (10), Indonesia (10), and India (10);

9 projects in the servicing and maintenance sector in Algeria (1), Barbados (1), Burkina Faso (1), Mozambique (1), Seychelles (1), Vietnam (2), Zambia (1) and Zimbabwe (1).

Table 1: List of Pipeline projects

No.	Country	Sector	Project Title	ODS MT	Budget Estimate US\$m
1	Algeria	Foam	ODS phase-out at two foam production plants (BATIMETAL, PROSIDER)	181	5
	"	Aerosols	ODS phase-out at an aerosol producing plant (ENAD)	800	1.5
	"	Solvents	ODS phase-out at a razor-blades producing plant (ENAD)	12	0.2
2	Barbados	Refrigeration	Retrofitting service and maintenance, cold storage and chiller rooms (demonstration project)	5	0.3
3	Brazil	Refrigeration	ODS phase-out at a domestic refrigerator plant	170	3
	"	Foam	ODS phase-out at two foam production companies	186	2
4	China	Refrigeration	ODS phase-out at a domestic refrigeration plant (XILING)	360	5
	"	"	ODS phase-out at a compressor factory (JIAXPERA)	296	3.2
	"	Solvents	ODS phase-out at 15 plants in the solvents sector	120	3
	"	Halons	ODS phase-out at 5 plants in the Halon Sector	400	1.5

No.	Country	Sector	Project Title	ODS MT	Budget Estimate US\$m
5	India	Aerosols	ODS phase-out at 24 plants in the aerosol sector (small-scale enterprises)	75	1.2
	"	Refrigeration and Air- conditioning	ODS phase-out at 10 refrigeration companies (small-scale enterprises)	100	2.5
	"	Solvents	ODS phase-out at 10 plants in the solvents sector (small-scale enterprises)	80	1.5
6	Indonesia	All	ODS phase-out in 5 small and medium size industries	*	1
7	Iran	Foam	ODS phase-out in: - 4 flexible foam factories (ABRE SAAMAL, SHIZAR, SAFOAM Co., USC) - 5 rigid PU foam plants (FABIS, IRAN STEEL PARTS, U.S.C., MAMMOTH, FM Company)	35 1,110	4 5
	"	Refrigeration	ODS phase-out in the commercial and small domestic refrigeration plants	350	5
8	Kenya	Refrigeration	ODS phase-out at Kenya Cold Storage and its subsidiary companies	30	2

No.	Country	Sector	Project Title	ODS MT	Budget Estimate US\$m
9	Lebanon	Refrigeration	ODS phase-out at air conditioners production plants (WEATHERMATE)	2	0.1
	"	"	ODS phase-out at a domestic refrigerator plant (OPACO LTD)	84	1.5
	"	Aerosols	ODS phase-out at COSMALINE INDUSTRIES	83	0.3
	"	Foam	ODS phase-out at two foam producing companies (ETC HENRI ABDALLAH, NASRI KARAM)	30	1
10	Malaysia	Foam	ODS phase-out at 7 foam producing companies (SOON LEE TRADING CO., BRISTOL INDUSTRIES, ARTWRIGHT TECHNOLOGY, D & D TRADING, CIVIC INDUSTRIES, FLORAFOAM MARKETING and WINCOOL ELECTRICAL Co..)	270	2.7
11	Nigeria	Refrigeration	ODS phase-out at 1 domestic refrigeration plant (ASSOCIATED ELECTRONIC PRODUCTS LIMITED)	170	3
12	Romania	Refrigeration	ODS phase-out at two domestic refrigerator plants (SADU and ARCTIC)	250	3.5
	"	Foam	ODS phase-out at one foam producing plant (SPUMOTIM)	30	1

No.	Country	Sector	Project Title	ODS MT	Budget Estimate US\$m
13	Sudan	Aerosols	ODS phase-out in an aerosol factory (SUDAN COSMETICS & HOUSEHOLD LTD)	330	1
	"	Foams	ODS phase-out in a foam producing factory (PATRA FOAM COMPANY - EL BAGEER)	50	0.8
14	Swaziland	Refrigeration	ODS phase-out at a domestic refrigeration plant (FRIDGEMASTER)	100	2
15	Tanzania	Refrigeration	ODS phase-out at a domestic refrigeration plant (DAILAN AIR)	30	1.5
	"	Aerosol	ODS phase-out at an aerosol producing plant (MANSOOR DAYA)	120	0.5
16	Turkey	Foam	ODS phase-out at foam producing factories (19)	250	10
17	Vietnam	Refrigeration	Conversion of industrial chillers to non-CFC alternatives	30	1
18	Zimbabwe	Refrigeration	ODS phase-out at 1 domestic refrigeration plant	140	03
T O T A L				6,954	79.8

***not possible to predict figures at this time**

S u p p l e m e n t

to

S e c t i o n I I I

Refrigeration	
Country/Project Title	Status of Project
1. Algeria Investment project for ODS phase-out at ENIEM	The project is undergoing the bidding process. A meeting with ENIEM delegation is scheduled for the 21 and 22 February 1995 to discuss implementation procedures
2. Brazil Project preparation for ODS phase-out at two domestic refrigerator plants	A joint identification mission with FINEP (financial intermediary of the World Bank) is scheduled for the 21 March 1995. The UNIDO team will take the opportunity to formulate two projects one of which will, hopefully, be submitted in 1995.
3. Cameroon a. Investment project for ODS phase out at FAEM (domestic refrigeration plant)	The contract is awarded and the purchase of equipment will take place in the very near future.
b. Preparation of a project for ODS phase-out at Union Camerounaise d'Entreprise (domestic refrigeration plant)	The project will be formulated by the end of June 1995.
4. China Investment project for ODS phase-out at JIAXPERA (compressor factory)	) These two projects have been formulated and) will be submitted at the 17th session of the) Executive Committee)
Investment project for ODS phase-out at XILING (domestic refrigeration plant)	
5. Egypt Investment project for ODS phase-out at KIRIAZI (domestic refrigeration plant)	Contracts are awarded and the purchase of equipment will soon take place
Investment project for ODS phase-out at DELTA (domestic refrigeration plant)	Contracts are awarded and the purchase of equipment will soon take place

Refrigeration

Country/Project Title	Status of Project
Egypt (cont'd..) Investment project for ODS phase-out at ELECTROSTAR (domestic refrigeration plant)	Contracts are awarded and the purchase of equipment will soon take place
Investment project for ODS phase-out at six domestic refrigeration plants: ALASKA, HELWAN Company, IBERNA, EL-NASR, SILTAL and SUPER BOSCH	This project is undergoing the bidding process. Terms of reference have been prepared. A meeting is scheduled with the 6 enterprises to discuss the implementation procedures
6. Iran Investment project for ODS phase-out at 5 domestic refrigeration plants: ARJ, AZMAYESH, BAHMAN, IRAN POYA, PARS APPLIANCES (phase one)	Terms of reference for sub-contract has been sent to the counterpart for comments. Representatives from the 5 companies will participate this month in the testing of a prototype in Germany. The phase two of this project will go through an intersessional approval. The last version was sent to the Secretariat the first week of February.
Preparation of an investment project at 6 commercial and domestic refrigeration plants (PARS MACHINE CO., IRAN FREEZE CO., GADOOK, MOUALLED CO., LORESTAN CO.)	The formulation of this project is near completion and will soon be transmitted to the Secretariat

Refrigeration	
Country/Project Title	Status of Project
11. Romania Preparation of two investment projects at SADU and ARCTIC (domestic refrigeration plants)	The formulation of these two projects is near completion and will be transmitted to the Secretariat by March 1995
12. Syria Investment project at a domestic refrigeration plant (AL HAFEZ)	A Contract is awarded and the down payment released. A mission is scheduled for the second week of February to proceed with contract execution
Investment project at two domestic refrigeration plants (BARADA and PENGUIN)	These two projects are undergoing the bidding process. A meeting with representatives of the two companies will take place starting from 13 February 1995 to discuss the terms of reference and the implementation process.
Preparation of an investment project at a domestic refrigeration plant (KRAYAM INT. CO.)	The formulation of this project will start during the second week of February 1995.
13. Swaziland Preparation of an investment project at a domestic refrigeration plant (FRIDGEMASTER)	The preparation of this project is near completion and will soon be transmitted to the Secretariat
14. Vietnam Investment project at two industrial refrigeration plants (SEAREFICO, SEAREE)	This project is undergoing the bidding process. Terms of reference are being prepared.

Refrigeration	
Country/Project Title	Status of Project
Vietnam (cont'd..) Preparation of an investment project for conversion of industrial chillers	The project will be formulated during this year. It is expected to be submitted to the 18th session of the Executive Committee
15. Tanzania Preparation of an investment project at a domestic refrigeration plant (DAILAN AIR)	A formulation mission is scheduled for April 1995. It is expected to be submitted to the 18th session of the Executive Committee
16. Zimbabwe Preparation of an investment project at a domestic refrigeration plant	A formulation mission is scheduled for May 1995. It is expected to be submitted to the 18th session of the Executive Committee

Foam Sector	
Country/Project Title	Status of project
1. Algeria Preparation of two investment projects at BATIMETAL and PROSIDER (foam producing plants)	The formulation of these two projects will start by the end of June 1995
2. Argentina Investment projects at two foam producing plants (BANDEX and CELPACK)	The contract is awarded. Main equipment purchased (extruders and safety devices), pumps, tanks and engineering equipment ordered
3. Brazil Preparation of two investment projects at FRISOKAR and CALOI S.A. (foam producing plants)	A formulation mission will take place in April 1995
4. Iran Preparation of an investment project at 4 flexible foam factories (ABRE SAAMAL, SHIZAR, SAFOAM Co. USC) Preparation of an investment project at 4 rigid polyurethane foam plants (FABIS, IRAN, STEEL PARTS, USC, MAMMOTH, FM Company)	Funds for project preparation in the foam sector have been allocated to UNDP. The Iranian government indicated that they will request from the Executive Committee the transfer of US\$ 100,000. If this takes place, UNIDO will formulate these two projects accordingly.
6. Jordan Preparation of an investment project at 6 producing foam factories	The project will be formulated by the end of the year
7. Lebanon Preparation of an investment project at two foam producing companies (ETS HENRI ABDALLAH, NASRI KARAM)	This project will be formulated as soon as funds are approved

Foam Sector

Country/Project Title	Status of project
8. Malaysia Preparation of investment projects at four producing foam plants (SOON LEE TRADING CO., D & D TRADING, CIVIC INDUSTRIES, WINCOOL ELECTRICAL CO.)	These projects will be formulated as soon as funds are approved. The coordination with UNDP has taken place.
9. Sudan Preparation of an investment project at a foam producing plant (PATRA FOAM COMPANY)	A formulation mission is scheduled for March 1995
10. Syria Preparation of an investment project at a manufacturing plant of prefabricated sandwich panels at KRAYAM COLD STORES Co. Preparation of investment projects at four flexible foam producing plants (DAKKAK, WALID & NABIL TANKOUSI, SHAAR BROTHERS, ABDULKARIM SEBI)	))))))) A formulation mission is scheduled for the third week of March
11. Turkey Preparation of investment projects at 10 foam producing plants	A formulation mission is scheduled for April 1995. As a first phase the formulation will concern only 10 companies

Aerosol sector	
Country/Project Description	Status of the Project
1. Algeria Preparation of an investment project at an aerosols plant (ENAD)	The formulation of this project is near completion. The project document is expected to be ready by the end of February 1995
2. India Preparation of an investment project at 24 small aerosols fillers	The formulation of this project will start in March 1995.
3. Lebanon Preparation of an investment project at one aerosols filler (COSMALINE INDUSTRIES)	The formulation of this project will start as soon as funds are approved
4. Sudan Preparation of an investment project at one aerosol filler (SUDAN COSMETICS AND HOUSEHOLD LTD)	A formulation mission is scheduled for March 1995

Tobacco Sector	
Country/Description of Project	Status of project
1. China Preparation of an investment project at 3 tobacco factories	This project will be formulated in the course of this year. Its submission is pending on a decision of the Executive Committee related to this new sector

Halon Sector	
Country/Description of project	Status of Project
1. China Investment project at NANJING FIRE EQUIPMENT Preparation of investment projects at 5 plants in the Halon sector	Terms of reference are being prepared and will be sent to the counterpart for comments. The bidding process will follow The preparation of these projects will take place after an official agreement on the division of labour between UNDP, UNIDO and the World Bank is reached
2. Jordan Preparation of a halon banking project	))) UNIDO is requesting from the Fund Secretariat a recommendation regarding the formulation of such projects
3. Seychelles Preparation of a halon banking project	
4. Zimbabwe Preparation of a halon banking project	

Solvent Sector	
Country/Project Description	Status of Project
1. Algeria Preparation of an investment project in the solvents sector (ENAD)	The formulation of the project is near completion. The project document is expected by the end of February 1995
2. Brazil Preparation of investment projects at 10 companies	A joint identification mission with UNDP will take place after which the formulation of projects will take place
3. China Preparation of investment projects at 15 companies in the solvent sector	The preparation of these projects will take place after an official agreement on the division of labour between UNDP, UNIDO and the World Bank is reached
4. Egypt Preparation of investment projects at 10 companies in the solvent sector	The preparation of these projects will take place as soon as funds are approved. No submission is expected for 1995
5. Indonesia Preparation of investment projects at 10 small and medium size enterprises in the solvents sector	A formulation mission is scheduled for April 1995
6. India Preparation of investment projects at 10 small enterprises in the solvents sector	A joint formulation mission with SIDBI is scheduled for April 1995

Servicing, maintenance and retrofitting in the refrigeration sector

UNIDO will formulate a demonstration project in Barbados. Therefore, projects planned in this sector in Algeria, Burkina Faso, Mozambique, Seychelles, Vietnam, Zambia and Zimbabwe will be delayed until enough experience is gained.

Country Programmes

- 1. Macedonia** A local consultant has been identified, to assist a consultancy company in gathering useful data and providing contacts in the country. A call for bids will soon be launched.
- 2. Romania** The country programme jointly prepared with a Danish consulting company (COWIconsult) will soon be completed. It will be submitted together with an institutional strengthening project for approval at the 17th session of the Executive Committee.

Global Activity

1. Establishing a strategy for phase-out of ODS in low-ODS consuming countries	The guidance document for strategy development has been finalized jointly with U.S. EPA. The field test of this document will be carried out by EPA consultants at the end of February in order to prepare the draft of the strategy document. The field test of the strategy document will be undertaken in cooperation with EPA and UNIDO consultants at the end of April beginning May 1995. After its finalization at the end of May/beginning June, it will be submitted to the 17th session of the Executive Committee.
2. Joint action with UNEP in country programme exercises	UNIDO is still waiting for the forthcoming mission to Antigua and Barbuda, St. Kitts and Nevis, the Bahamas, Pakistan and Peru to be scheduled by UNEP in order to assist in the formulation of a strategy for the industrial sector.

Section IV

UNIDO's Implementation Activities in 1995

It is anticipated that by the end of 1995 the level of disbursements of all projects approved by the Executive Committee by mid-1994 will reach 60% and projects approved at the last session of the Executive Committee will reach 30%. All approved investment projects are under implementation. One investment project (Egypt, Foam Producing Factory at ADVECHEMS) has been completed resulting in a phase-out of 196 mt of ODS. Contracts have been awarded for all projects approved at the 13th session of the Executive Committee meeting except ITI-Mankapur in India which awaits completion of negotiations involving the IDBI. Projects approved at the 15th session of the Executive Committee meeting are undergoing the bidding process.

One investment project approved at the 11th session of the Executive Committee (December 1993)

ODS phase-out in refrigerator manufacturing companies at ARJ, AZMAYESH, BAHMAN, IRAN POYA, PARS APPLIANCES (Iran)

- a) Terms of Reference for sub-contract have been prepared and will be sent to the counterpart for comments;
- b) representatives from all 5 companies will participate in the testing of prototype in February 1995 in Germany;

List of investment projects approved at the 13th session of the Executive Committee (July 1994)

1. ODS phase-out in foam manufacturing companies at BANDEX (ordered pumps, tanks and engineering equipment) and CELPACK S.A. (main equipment purchased, extruders and safety devices) (Argentina);
2. ODS phase-out in refrigerator manufacturing company at FAEM S.A. (Cameroon); contract awarded in December 1994;
3. ODS phase-out in refrigerator manufacturing company at KIRIAZI (Egypt); contract awarded;
4. ODS phase-out in refrigerator manufacturing company at DELTA (Egypt); contract awarded;

5. ODS phase-out in refrigerator manufacturing company at ELECTROSTAR (Egypt); contract awarded;
6. ODS phase-out for an electronic cleaning process at ITI MANKAPUR (India); contract to be awarded as soon as negotiations are completed with IDBI;
7. ODS phase-out in refrigerator manufacturing companies at NRC, HAMCO and MEE (Jordan); contract awarded;
8. ODS phase-out in refrigerator manufacturing company at AL-HAFEZ (Syria); contract awarded and down payment released.

**List of investment projects approved
at the 15th session of the Executive Committee (December 1994)**

1. ODS phase-out at a refrigeration manufacturing company at ENIEM (Algeria)
2. ODS phase-out at Nanjing Fire Fighting Equipment Factory (China)
3. ODS phase-out at 6 domestic refrigeration plants : Alaska, Helwan Company for Metallic Appliances, Ibern, El Nasr Company for Electric and Electronic Apparatus, Sital and Super Bosch (Egypt)
4. ODS phase-out at 2 refrigeration plants: Penguin, Syrian Batric Co. and Barada General Company for Metallic Industry (Syria)
5. ODS phase-out at industrial refrigeration plants: Searefico and Searee of Seaprodux Co., (Vietnam)

*Phase II of the ODS phase-out refrigeration project at ARJ, AZMAYESH, BAHMAN, IRAN POYA, PARS APPLIANCES will be subject to an intersessional approval.

Section V

Policy Issues

UNIDO's legal department has recently been requested to further investigate improvement of procedures related to bidding and contracting procedures in order to speed up the implementation of investment projects. UNDP and UNIDO's legal departments will cooperate in preparing a proposal of simplified procedures.

As indicated in **Section I**, UNIDO will concentrate its efforts in the implementation of investment projects approved in 1994, which would leave little time to the Montreal Protocol Operations Team for project formulation. Therefore, the policy of strengthening UNIDO's capacity in this area will continue by recruiting high level experts as well as hiring international consultants, particularly in the fields of solvents, aerosols and halons. This would lead to a reorganization of the Montreal Protocol Operations Team in terms of better cohesion, mobility and effectiveness.

It is expected that UNIDO will get more and more involved in the formulation and implementation of projects in low ODS-consuming countries as well as small and medium size industries. Therefore, UNIDO will have to implement a strategy for these particular projects.

This strategy will have to address the issues of cost-effectiveness and follow up activities.

Section VI

Inter-agency Cooperation

In order to minimize the adverse effects created by the competitiveness among implementing agencies, it is believed that circulation of information on future projects to be formulated as well as on-going ones would allow joint consulting services and better use of technical documentation gathered by each implementing agency. This would reduce the cost of project formulation, improve the quality and harmony of the project documents and, therefore, facilitate appraisal from the Multilateral Fund Secretariat.

Discussions have also begun on exchange of technical assistance between implementing agencies which could lead to the execution of projects by an agency on behalf of another. This would certainly enhance the idea of promoting agencies' image as assisting developing countries in their best interests.

As a first result, an important agreement was reached lately in Brazil leading to a comprehensive division of activities between the four Implementing Agencies.

It is expected that similar agreements will be finalized in China and Argentina.

In Pakistan, UNIDO and the World Bank will also discuss their respective involvement in the implementation of ODS phase-out projects.

The same spirit of cooperation has prevailed between UNDP and UNIDO in Iran, Lebanon and Sudan.

Finally, UNIDO will develop its cooperation with donor countries for joint formulation and implementation of projects.

Section VII

Project proposals with a budget of less than US\$ 500,000

Since the conclusion of the 15th session of the Executive Committee, new requests for UNIDO's assistance have been received from Brazil, Burkina Faso, China, Côte d'Ivoire, Egypt, Lebanon, Malaysia and Philippines.

The requests are presented in a consolidated budget summary and the details of each of them in the form of simplified project documents.

There also have been indications of some other Article 5 countries for UNIDO's assistance. However, since no official requests have reached UNIDO headquarters, they are not included in this Work Programme. On the other hand, they may be submitted later this year as amendments to the Work Programme.

Projects under US\$ 500,000

No	Country	Project Description	Amount Requested (US \$)
1	Côte d'Ivoire	Project formulation for the ODS phase-out in the refrigeration	30,000
2	Egypt	Project formulation for the conversion of electronic, optical and metal cleaning processes for CFC-113, 1,1,1,Trichloroethane and carbon tetrachloride to non-CFC cleaning	50,000
3	Lebanon	Project formulation for the phase-out of ODS in the aerosol sector (COSMALINE INDUSTRIES S.A.L.)	15,000
		Project formulation for the phase-out of ODS in the foam sector (ETS HENRI ABDALLAH and NASRI KARAM)	20,000
		Project formulation for the phase-out of ODS in the refrigeration sector (WEATHERMATE and OPACO Ltd)	15,000
4	Malaysia	Identification and Preparation of investment projects for phasing-out of CFC-11 from the sub-sector of flexible and rigid PU foams manufacturing	60,000
		Project formulation for the elimination of utilization of CFCs in electronic, metal and precision metal cleaning processes	50,000
5	Romania	Preparation of investment project for phasing-out of CFC-11 at S.C. Spumotim S.A. flexible polyurethane foam plant	15,000
T O T A L (excluding Overheads)			255,000

Project Outline

COUNTRY	Côte d'Ivoire
PROJECT TITLE	Project formulation for the ODS phase-out in the refrigeration sector
SECTORS COVERED	Refrigeration
ODS USE IN SECTOR	122 MT
PROJECT IMPACT	Formulation of three investment projects in the refrigeration sector (domestic refrigerator producing plant: compagnie de developpement industriel, 1 air conditioner producing plant, Societe ivoirienne de climatisation, 1 industrial refrigerator production plant: compagnie general ivoirienne de maintenance
PROJECT DURATION	03 months
PROJECT COST	US\$ 30,000
IMPLEMENTING AGENCY	UNIDO
COORDINATING AGENCY	Ministère de l'Environnement de la Construction et de l'Urbanisme

Project Description

The objective of this project is to formulate 3 projects for the CFC phase-out at one domestic refrigeration plant, one air conditioner plant (SIC) and one industrial refrigeration plant (GIM). UNIDO has been requested by the government of Côte d'Ivoire to formulate and implement these projects.

The expected ODS phase out is 40 MT.

Project Outline

COUNTRY	Egypt
PROJECT TITLE	Project formulation for the conversion of electronic, optical and metal cleaning processes for CFC-113, 1,1,1 Trichloroethane and carbon tetrachloride to non-CFC cleaning
SECTORS COVERED	Solvent
ODS USE IN SECTOR	107 MT
PROJECT IMPACT	Identification of 10 projects aiming at phasing out ODSs
PROJECT DURATION	06 months
PROJECT COST	US\$ 50,000
IMPLEMENTING AGENCY	UNIDO
COORDINATING AGENCY	Egyptian Environmental Affairs Agency (EEAA)

Project Description

The objective of this project is to formulate 10 projects dealing with the phasing out of ODSs in electronics, metal and optical industries in Egypt. 10 companies involved in utilizing ODSs have already been identified by EEAA. The project will be implemented through carrying out the survey of companies selected by UNIDO experts, data collection and analysis, final selection of new cleaning technologies and formulation of 10 investment projects.

Project Outline

COUNTRY	Lebanon
PROJECT TITLE	Project formulation for the phase-out of ODS in the aerosol sector (COSMALINE INDUSTRIES S.A.L.)
SECTORS COVERED	Aerosols
ODS USE IN SECTOR	Data not available (Country programme in preparation)
PROJECT IMPACT	Phase-out of 89 metric tons of CFC-11 and CFC-12
PROJECT DURATION	03 months
PROJECT COST	US\$ 15,000
IMPLEMENTING AGENCY	UNIDO
COORDINATING AGENCY	Ministry of Industry

Project Description

UNIDO has received an official request from the Government of Lebanon for the preparation of an investment project in the aerosol sector at COSMALINE INDUSTRIES S.A.L. This plant consumes 89 tons of CFC-11 and CFC-12 for an annual production of 490,000 pieces of aerosol and wishes assistance from the Multilateral Fund for complete ODS phase-out.

Project Outline

COUNTRY	Lebanon
PROJECT TITLE	Project formulation for the phase-out of ODS in the foam sector (ETS HENRI ABDALLAH and NASRI KARAM)
SECTORS COVERED	Foam
ODS USE IN SECTOR	Data not available (Country programme in preparation)
PROJECT IMPACT	Phase-out of 45 metric tons of CFC-11
PROJECT DURATION	04 months
PROJECT COST	US\$ 20,000
IMPLEMENTING AGENCY	UNIDO
COORDINATING AGENCY	Ministry of Industry

Project Description

UNIDO has received an official request from the Government of Lebanon for the preparation of two investment projects in the foam sector at 2 plants (ETS HENRI ABDALLAH and NASRI KARAM). These two plants consume respectively 15 MT and 30 MT of CFC-11 for a production of 315 and 900 tons of foam and wish assistance from the Multilateral Fund for complete ODS phase-out.

Project Outline

COUNTRY	Lebanon
PROJECT TITLE	Project formulation for the phase-out of ODS in the refrigeration sector (WEATHERMATE and OPACO Ltd)
SECTORS COVERED	Refrigeration and Air-conditioning
ODS USE IN SECTOR	Data not available (Country programme in preparation)
PROJECT IMPACT	Phase-out of 56 metric tons of CFC-11 and CFC-12
PROJECT DURATION	04 months
PROJECT COST	US\$ 15,000
IMPLEMENTING AGENCY	UNIDO
COORDINATING AGENCY	Ministry of Industry

Project Description

UNIDO has received an official request from the Government of Lebanon for the preparation of two investment projects in the refrigeration and air-conditioning sector at 2 plants (WEATHERMATE and OPACO Ltd.) These two plants consume respectively 2 metric tons and 54 metric tons of CFC-11 and CFC-12 for a production of 1,500 air conditioning units and 60,000 domestic refrigerators and wish the assistance of the Multilateral Fund for complete ODS phase-out.

PROJECT OUTLINE

COUNTRY: Malaysia

SECTOR/SUBSECTOR COVERED: Foams (flexible PU foams)

SECTORAL ODS CONSUMPTION: 200 MT of CFC 11

PROJECT TITLE: Identification and Preparation of investment projects for phasing out of CFC 11 from the subsector of flexible and rigid PU foams manufacturing

ANNUAL ODS CONSUMPTION: 500 MT of CFC 11

PROJECT DURATION: 6 months

PROPOSED BUDGET: US\$ 60.000

IMPLEMENTING AGENCY: UNIDO

NATIONAL COORDINATING AGENCY: Department of Environment

PROJECT SUMMARY

The Implementing Agency has received an official Government request to assist 7 manufacturers of PU and rigid foams in eliminating the use of CFC 11 as blowing agent.

The objective of the preparatory assistance project is to formulate seven full-scale investment projects for phasing out of CFC 11 of the manufacturing programme at 7 companies dealing with different kind of flexible and rigid PU foams (SOON LEE TRADING CO., BRISTOL INDUSTRIES, ARTWRIGHT TECHNOLOGY, D&D TRADING, CIVIC INDUSTRIES, FLORAFOAM MARKETING and WINCOOL ELECTRICAL).

During the preparatory activities, new projects for further UNIDO implementation will also be identified jointly with the Department of Environment, Ministry of Science, Technology and Environment in Kuala Lumpur.

Project Outline

COUNTRY	Malaysia
PROJECT TITLE	Project formulation for the elimination of utilization of CFCs in electronic, metal and precision metal cleaning processes
SECTORS COVERED	Solvent
ODS USE IN SECTOR	1,012.6 MT
PROJECT IMPACT	Identification of 10 projects aiming at phasing out ODSs
PROJECT DURATION	06 months
PROJECT COST	US\$ 50,000
IMPLEMENTING AGENCY	UNIDO
COORDINATING AGENCY	Department of Environment

Project Description

The objective of this project is to formulate 10 projects dealing with the phasing out of ODSs in electronics and precision metal cleaning industries in Malaysia. A group of companies involved in utilizing ODSs will be identified by the Department of Environment. The project will be implemented through carrying out the survey of companies selected by UNIDO experts, data collection and analysis, selection of new cleaning technologies and formulation of 10 investment projects.

PROJECT OUTLINE

COUNTRY: Romania

PROJECT TITLE: Preparation of investment project for phasing out of CFC 11 at S.C. SPUMOTIM S.A. flexible polyurethane foam plant

SECTOR/SUBSECTOR COVERED: Foams (flexible PU foams)

SECTORAL ODS CONSUMPTION: 50 MT of CFC 11

ANNUAL ODS CONSUMPTION: 30 MT of CFC 11

PROJECT DURATION: 3 months

PROPOSED COST: US\$ 15,000

IMPLEMENTING AGENCY: UNIDO

NATIONAL COORDINATING AGENCY: Ministry of Water, Forestry and Environmental Protection

Project Description

The Implementing Agency has received an official Government request to assist S.C. SPUMOTIM, manufacturer of PU foams, in eliminating the use of CFC 11 as blowing agent.

More than 70 % of the local production of flexible foams with a density range from 15 to 40 kg/m³ is produced by this company.

In view of above and since alternative technologies applicable under the specific conditions of developing countries are already available on the market, it is justified to prepare an investment project covering the conversion of this company.