

LIST OF PROJECTS AND ACTIVITIES APPROVED FOR FUNDING

UNEP/OzL.Pro/ExCom/28/57

Annex III Page 1

Project Title	Agency	ODP Tonnes	Funds Approved (US\$) Project	Support	C.E. Total (US\$/kg)	
ALGERIA						
AEROSOL						
Filling plant						
Phase out of CFC-11/CFC-12 by conversion to hydrocarbon technology in the manufacture of aerosols at company Saco	UNIDO	19.0	\$73,691	\$9,580	\$83,271	3.88
Phase out of CFC11/CFC12 by conversion to hydrocarbons technology in the manufacture of aerosols at Floreal	UNIDO	18.1	\$77,145	\$10,029	\$87,174	4.26
FOAM						
Flexible						
Phasing out of CFC-11 by conversion to methylene chloride in the manufacture of flexible polyurethane slabstock foam at Matelas Mondial	UNIDO	20.0	\$97,986	\$12,738	\$110,724	4.95
Phasing out of CFC-11 by conversion to methylene chloride in the manufacture of flexible polyurethane slabstock foam at Orania Mousse Ameublement (OMA)	UNIDO	18.0	\$99,477	\$12,932	\$112,409	5.53
Total for Algeria		75.1	\$348,299	\$45,279	\$393,578	
ARGENTINA						
FOAM						
Rigid						
Phasing out CFC-11 by conversion to HCFC-141b as a blowing agent in the manufacture of rigid P.U. blocks and tank spraying at Polwer S.R.L.	UNIDO	26.8	\$111,641	\$14,513	\$126,154	4.16
REFRIGERATION						
Domestic						
Replacement of CFC-11 by cyclopentane and CFC-12 by isobutane in the manufacturing of refrigeration equipment at Radio Victoria Catamarca	UNIDO					
<i>Request for change of technology submitted according to Decision 22/69. An amount of \$108,246 will be returned to the Multilateral Fund.</i>						
Commercial						
Phaseout of CFC-11 by conversion to HCFC-141b techn.,and of CFC-12 by conversion to HFC-134a in the manufacture of com.ref,display cabinets and polyurethane panels for cold stores at Perito Moreno Ref.	UNDP	31.1	\$379,605	\$49,349	\$428,954	12.20
SOLVENT						
TCA						
Replacement of the present 1,1,1-trichloethane (MCF) sheet steel cleaning system on the steel sheet-cutting table with an aqueous-mechanical system in a steel enterprise (Siderar S.A.I.C.)	IBRD	6.7	\$105,147	\$13,669	\$118,816	15.69

LIST OF PROJECTS AND ACTIVITIES APPROVED FOR FUNDING

UNEP/OzL.Pro/ExCom/28/57

Annex III Page 2

Project Title	Agency	ODP Tonnes	Funds Approved (US\$) Project	Support	C.E. Total (US\$/kg)
Multiple solvents					
Umbrella Project for 9 Enterprises - Conversion from MCF used as solvent to aqua based cleaning at Argelite La Rioja S.A.; CIMCAM S.A.; Grimoldi S.A.; Helioldino S.A.I.C.; Integral Metalurgica S.A; Orbis Mertig S.A.I.C.; Trosh S.A. Unisol S.A. & Buffalo S.A	IBRD	7.1	\$272,157	\$35,380	\$307,537 38.50
Total for Argentina		71.7	\$868,550	\$112,912	\$981,462
BENIN					
SEVERAL					
Institutional strengthening					
Renewal of institutional strengthening, phase II	UNEP		\$33,333	\$4,333	\$37,666
Total for Benin			\$33,333	\$4,333	\$37,666
BOLIVIA					
FOAM					
Rigid					
Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Quimica Andina	Belgium	5.0	\$108,480		\$108,480 21.70
Total for Bolivia		5.0	\$108,480		\$108,480
BRAZIL					
FOAM					
Rigid					
Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam at Ananda	UNDP	16.0	\$37,380	\$4,859	\$42,239 2.33
Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane sprayfoam at Isotherm.	UNDP	26.3	\$116,768	\$15,180	\$131,948 4.44
Conversion from CFC-11 to HCFC-141b and water based technology in the manufacture of rigid polyurethane foam at Polsul Group	UNDP	55.0	\$536,892	\$69,058	\$605,950 7.36
<i>Further approval of projects to phase out the foam sector SMEs in Brazil will be subject to the submission by the Government of Brazil of a strategy paper or a plan for phasing out the use of ODS by eligible enterprises in the sub-sector.</i>					
Phaseout of CFC-11 by conversion to HCFC-141b technology in rigid polyurethane foam (spray and pour in place) at SIFC	UNDP	9.5	\$74,385	\$9,670	\$84,055 7.83
Integral skin					
Phaseout of CFC-11 by conversion to water-blown technology in the manufacture of rigid at Moldepol	UNDP	34.8	\$421,444	\$54,788	\$476,232 12.11
Polystyrene/polyethylene					
Phase-out of CFC-12 by conversion to n-butane as a blowing agent in the manufacture of extruded polyethylene foams for thermal insulation and food packaging purposes at Epex Co.	UNIDO	135.0	\$632,391	\$79,563	\$711,954 4.68

Project Title	Agency	ODP Tonnes	Funds Approved Project	(US\$) Support	C.E. Total (US\$/kg)	
Multiple-subsectors						
Conversion from CFC-11 to HCFC 141b and water based technology in the manufacture of rigid polyurethane foam and integral skin foam at JNP Group	UNDP	80.3	\$823,867	\$100,625	\$924,492	8.41
Further approval of projects to phase out the foam sector SMEs in Brazil will be subject to the submission by the Government of Brazil of a strategy paper or a plan for phasing out the use of ODS by eligible enterprises in the sub-sector.						
Phaseout of CFC-11 by conv. to water-blown technology in flexible molded foam,to water and methylene chloride blown technology in semi-rigid packaging foam,and to HCFC-141b in the manufacture of flexible integral skin foams at Espuma Oeste	UNDP	16.9	\$181,616	\$23,610	\$205,226	9.94
FUMIGANT						
Methyl bromide						
Phasing out methylbromide in the entire Tobacco Sector	UNIDO	84.4	\$2,344,440	\$267,888	\$2,612,328	27.79
Approved a level of funding in the amount of US \$2.34 million as a national incentive and on an exceptional basis, to implement the project to phase-out at least 20% of the current methyl bromide used in the tabacco sector (from 421.8 to 337.4 ODP tonnes or less) over a period of 3 years from the time the project commences. To report back to the Executive Committee 3 years after project initiation with information on the experience gained in the phase-out, including related costs and remaining ODS consumption in the sector.						
REFRIGERATION						
Domestic						
Phase-out of CFC-11 & CFC-12 in the manufacture of domestic refrigerators & freezers by conversion to cyclopentane & HCF 134a at Metalurgica Venan Ltda.	UNDP	36.0	\$741,800	\$91,598	\$833,398	13.76
Commercial						
Conversion from CFC-11 to HCFC-141b, and from CFC-12 to HFC-134a and from R-502 to R-402a in the manufacture of commercial refrigeration products at General Icy	UNDP	27.9	\$411,139	\$53,448	\$464,587	14.74
Phasing out CFC-12 with HFC-134a and CFC-11 with HFC-141b at five commercial refrigeration companies (umbrella project)	UNIDO	32.0	\$485,916	\$63,169	\$549,085	15.18
Phaseout of CFC-11, CFC-12 and R-502 by conversion to HCFC-141b technology (foam) and HFC-134a and R-404a technology (refrigerant) in the manufacture of milk coolers and display cabinets at Incomar	UNDP	4.9	\$74,529	\$9,689	\$84,218	15.21
Total for Brazil		559.0	\$6,882,567	\$843,146	\$7,725,713	

LIST OF PROJECTS AND ACTIVITIES APPROVED FOR FUNDING

UNEP/OzL.Pro/ExCom/28/57

Annex III Page 4

Project Title	Agency	ODP Tonnes	Funds Approved (US\$) Project	Support	C.E. Total (US\$/kg)
CAMEROON					
SEVERAL					
Institutional strengthening					
Renewal of institutional strengthening, phase III	UNEP		\$107,000	\$13,910	\$120,910
Total for Cameroon			\$107,000	\$13,910	\$120,910
CHINA					
FOAM					
Flexible					
Conversion of PU slabstock manufacture from CFC-11 to IBRD liquid carbon dioxide technology in Longkou Shunfa Foam Plant		70.7	\$440,461	\$57,260	\$497,721 6.23
Conversion of PU slabstock manufacture from CFC-11 to IBRD liquid carbon dioxide technology in Shandong Tianhua (Group) Plastic Plant		85.8	\$534,534	\$68,799	\$603,333 6.23
Rigid					
Phaseout of CFC-11 by conversion to HCFC-141b technology in the manufacture of rigid polyurethane insulation foam at Wuhan Commercial Machinery Factory	IBRD	29.3	\$149,195	\$19,395	\$168,590 5.09
Phaseout of CFC-11 by conversion to HCFC-141b technology in the manufacture of rigid polyurethane insulation foam at Jiangsu Taizhou Commercial Machiner General Factory	IBRD	28.3	\$192,890	\$25,076	\$217,966 6.82
Phaseout of CFC-11 by conversion to HCFC-141b technology in the manufacture of rigid polyurethane foam at Guangdong Zhujiang Refrigeration and Air Conditioning Co.	IBRD	87.7	\$581,230	\$73,935	\$655,165 6.62
Phaseout of CFC-11 by conversion to HCFC-141b technology in the manufacture of rigid polyurethane insulation foam at Heilongjiang Commercial Installation Corporation	IBRD	52.6	\$411,858	\$53,542	\$465,400 7.83
Phase-out of CFC-11 by conversion to n-pentane technology in the manufacture of rigid polyurethane insulation foam at Suzhou Purification Equipment Factory	UNDP	66.0	\$516,780	\$66,846	\$583,626 7.83
Phase-out of CFC-11 by conversion to HCFC-141b technology in the manufacture of rigid polyurethane insulation foam at Jiaxing Anti-Corrosion Factory.	UNDP	19.4	\$151,590	\$19,707	\$171,297 7.83
Phase-out of CFC-11 by conversion to HCFC-141b technology in the manufacture of rigid polyurethane insulation foam at Penglai Polyurethane Industry Co.	UNDP	63.5	\$497,200	\$64,636	\$561,836 7.83
Phase-out of CFC-11 by conversion to HCFC-141b technology in the manufacture of rigid polyurethane insulation foam at Hengfeng Polyurethane Spray Co. Ltd.	UNDP	154.1	\$1,206,600	\$142,726	\$1,349,326 7.83
Phase-out of CFC-11 in the manufacture of rigid polyurethane foam through the use of water blown technology at Jiangsu Chemical Research Institute	UNDP	32.4	\$253,690	\$32,980	\$286,670 7.83

Project Title	Agency	ODP Tonnes	Funds Approved (US\$)		C.E. Total (US\$/kg)
			Project	Support	
Phaseout of CFC-11 by conversion to n-pentane technology in the manufacture of rigid polyurethane foam sandwich panels at Chengde Commercial Machinery Group Co. Ltd.	IBRD	106.0	\$829,980	\$101,298	\$931,278 7.83
Polystyrene/polyethylene					
Elimination of CFC-12 in manufacturing of EPE foam packaging nets at 27 enterprises (Umbrella Project) <i>The total capacity of the enterprises for which funding would be sought would correspond to the existing level of production of the sub-sector indicated in the strategy, including those projects already approved.</i>	UNIDO	825.7	\$5,289,441	\$591,839	\$5,881,280 6.43
PRODUCTION					
CFC closure					
Sector plan for CFC phase out in China. 1999 Annual payment (second tranche) <i>Disbursement of these funds by the World Bank would be contingent on the verification by the World Bank for the Executive Committee in accordance with the World Bank's responsibilities in the Agreement demonstrating that the initial reductions required by the Agreement had been met. The World Bank was requested to transmit a report to the Secretariat for onward transmission to the Executive Committee on the understanding that disbursement of this US \$10 million would take place if no objection was received by the Secretariat within 15 business days of the dispatch of the report.</i>	IBRD		\$10,000,000	\$900,000	\$10,900,000
REFRIGERATION					
Domestic					
Phasing out ODS in the production of compressors at Changshu Refrigerating Equipment Works	Japan	75.0	\$2,507,500		\$2,507,500
Commercial					
Replacement of CFC-12 refrigerant with HCFC-22 in the manufacture of small and medium sized open type compressors at Zhejiang Commercial Machinery Factory <i>The World Bank should investigate the possibility of local purchase of measuring equipment and return any cost savings to the Multilateral Fund.</i>	IBRD	251.7	\$1,710,295	\$198,132	\$1,908,427 6.79
Replacement of CFC-12 refrigerant with HCFC-22 in the manufacture of semi-hermetic compressors at Yueyang Hengli Air-Cool Equipment Co. Ltd. <i>The World Bank should investigate the possibility of local purchase of measuring equipment and return any cost savings to the Multilateral Fund.</i>	IBRD	220.2	\$1,951,757	\$224,693	\$2,176,450 8.86
Replacement of CFC-12 refrigerant with HCFC-22 in the manufacture of small open type compressors at Wuhan Commercial Machinery Factory <i>The World Bank should investigate the possibility of local purchase of measuring equipment and return any cost savings to the Multilateral Fund.</i>	IBRD	104.2	\$1,457,583	\$170,334	\$1,627,917 13.99

LIST OF PROJECTS AND ACTIVITIES APPROVED FOR FUNDING

UNEP/OzL.Pro/ExCom/28/57

Annex III Page 6

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			Project	Support	Total (US\$/kg)	
SOLVENT						
Combined CFC-113 and TCA						
Elimination of ODS used in the production lines at Irico (Caihong) Color Picture Tube Factory	UNDP	202.0	\$2,853,200	\$323,852	\$3,177,052	14.10
Total for China		2,474.6	\$31,535,784	\$3,135,049	\$34,670,833	
COLOMBIA						
FOAM						
Rigid						
Elimination of CFC-11 in the manufacture of rigid polyurethane foam through the use of HCFC-141b technology at Rojas Hnos LTDA.	IBRD	8.2	\$64,206	\$8,347	\$72,553	7.83
REFRIGERATION						
Commercial						
Replacement of CFC-11 foam blowing agent with HCFC-141b and CFC-12 refrigerant with HFC-134a in the manufacture of commercial refrigerators and polyurethane sandwich panels at Polares Ltda.	IBRD	4.6	\$58,109	\$7,554	\$65,663	12.52
Replacement of CFC-11 foam blowing agent with HCFC-141b and CFC-12 refrigerant with HFC-134a in the manufacture of commercial refrigerators and polyurethane sandwich panels at Industrias de Supernordico	IBRD	9.6	\$128,381	\$16,690	\$145,071	13.33
Total for Colombia		22.5	\$250,696	\$32,590	\$283,286	
CROATIA						
REFRIGERATION						
Refrigerant management plan						
Refrigerant management plan: phase I: training of trainers in good refrigerant management practices, phase II: national technicians training	UNIDO		\$70,000	\$9,100	\$79,100	
Refrigerant management plan: customs training	UNIDO		\$38,250	\$4,973	\$43,223	
Refrigerant management plan: national recovery and recycling project	UNIDO	15.0	\$289,910	\$37,688	\$327,598	
Total for Croatia		15.0	\$398,160	\$51,761	\$449,921	
ECUADOR						
SEVERAL						
Institutional strengthening						
Renewal of institutional strengthening	IBRD		\$97,300	\$12,649	\$109,949	
Total for Ecuador			\$97,300	\$12,649	\$109,949	
EGYPT						
SOLVENT						
TCA						
Conversion of TCA used for the formulation of degreasing and contact cleaners and crack detectors to new formulations with special hydrocarbons and heavy chlorinated ester at Sien	UNIDO	9.0	\$231,435	\$30,087	\$261,522	25.77

LIST OF PROJECTS AND ACTIVITIES APPROVED FOR FUNDING

UNEP/OzL.Pro/ExCom/28/57

Annex III Page 7

Project Title	Agency	ODP Tonnes	Funds Approved (US\$)		C.E.	
			Project	Support	Total (US\$/kg)	
Total for Egypt		9.0	\$231,435	\$30,087	\$261,522	
GUATEMALA						
SEVERAL						
Institutional strengthening						
Renewal of institutional strengthening, phase III	UNEP		\$96,000	\$12,480	\$108,480	
Total for Guatemala			\$96,000	\$12,480	\$108,480	
GUINEA						
SEVERAL						
Institutional strengthening						
Renewal of institutional strengthening: phase II	UNEP		\$33,333	\$4,333	\$37,666	
Total for Guinea			\$33,333	\$4,333	\$37,666	
HONDURAS						
REFRIGERATION						
Refrigerant management plan						
Refrigerant management plan: national recovery and recycling project	UNIDO	14.2	\$245,900	\$31,967	\$277,867	
Refrigerant management plan: phase I: training of trainers in good refrigerant management practices, phase II: national technicians training project	UNIDO		\$70,000	\$9,100	\$79,100	
Refrigerant management plan: customs training	UNIDO		\$38,250	\$4,973	\$43,223	
Total for Honduras		14.2	\$354,150	\$46,040	\$400,190	
INDIA						
AEROSOL						
Contract filler						
Phaseout of CFC by substituting HAPs at Syncaps	UNDP	53.5	\$161,518	\$20,997	\$182,515	3.02
Phaseout of CFC-12 and CTC by substituting with HAPs at Ruby Aerosols	UNDP	22.8	\$45,800	\$5,954	\$51,754	2.01
Phaseout of CFC-12 and CTC at Vimsons Aerosol by substituting HAPs	UNDP	18.2	\$66,500	\$8,645	\$75,145	4.22
FOAM						
Rigid						
Conversion from CFC-11 to CFC-free technology in the manufacture of rigid polyurethane foam chemical systems at Shivathene Linopack	UNDP		\$209,000	\$27,170	\$236,170	
Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam insulation at Nav Texfeb P. Ltd.	UNDP	32.4	\$163,982	\$21,318	\$185,300	5.07
Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam insulated thermoware at Ashoka Metals	UNDP	12.5	\$68,066	\$8,849	\$76,915	5.46

LIST OF PROJECTS AND ACTIVITIES APPROVED FOR FUNDING

UNEP/OzL.Pro/ExCom/28/57

Annex III Page 8

Project Title	Agency	ODP Tonnes	Funds Approved (US\$)		C.E. Total (US\$/kg)
			Project	Support	
Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam insulated thermoware at O.K. Industries	UNDP	10.7	\$66,227	\$8,610	\$74,837 6.17
Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam insulation at 28 small and medium-sized enterprises.	UNDP	105.7	\$699,139	\$86,905	\$786,044 6.61
Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam insulated thermoware at Devisons P. Ltd.	UNDP	15.3	\$114,940	\$14,942	\$129,882 7.54
Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam insulated thermoware at N.D. Plastics	UNDP	12.9	\$101,289	\$13,168	\$114,457 7.83
Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam insulation at Standard Electric Appliances	UNDP	10.0	\$78,136	\$10,158	\$88,294 7.83
Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam insulation at Supertek International	UNDP	10.6	\$83,202	\$10,816	\$94,018 7.83
Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam insulated thermoware at Varivar Plast Products P.Ltd.	UNDP	12.3	\$96,184	\$12,504	\$108,688 7.83
Integral skin					
Conversion from CFC-11 to HCFC-141b technology in the manufacture of integral skin polyurethane foam at Primrose Multiplast P. Ltd.	UNDP	9.6	\$117,105	\$15,224	\$132,329 12.16
HALON					
Extinguisher					
Conversion of halon 1211 fire extinguisher production to ABC powder and CO2 units together with the use of recycled halon 1301 in lieu of virgin product at Standard Castings Pvt. Ltd. New Delhi, under the name of Pyrosafety	UNDP	64.1	\$92,000	\$11,960	\$103,960 1.44
Conversion of halon 1211 fire extinguisher production to ABC powder and CO2 units at Bharat Engineering Works, Mumbai	UNDP	49.5	\$73,260	\$9,524	\$82,784 1.48
Conversion of halon 1211 fire extinguisher production to ABC powder and CO2 units at Cascade Counsel Ltd. New Delhi	UNDP	54.0	\$79,920	\$10,390	\$90,310 1.48
Extinguisher production and elimination of its consumption of virgin halon 1301 at New Fire Engineers Pvt. Ltd. Mumbai	UNDP	120.0	\$130,000	\$16,900	\$146,900 1.08
Conversion of halon 2111 fire extinguisher production to ABC powder and CO2 units at Zenith Fire Services, Mumbai	UNDP	36.0	\$53,280	\$6,926	\$60,206 1.48
Conversion of halon 1211 fire extinguisher production to ABC powder and CO2 units at M/s Koooverji Devshi & Co. Pvt. Ltd., Mumbai	UNDP	25.5	\$37,740	\$4,906	\$42,646 1.48

LIST OF PROJECTS AND ACTIVITIES APPROVED FOR FUNDING

UNEP/OzL.Pro/ExCom/28/57

Annex III Page 9

Project Title	Agency	ODP Tonnes	Funds Approved (US\$) Project	Support	C.E. Total (US\$/kg)
REFRIGERATION					
Compressor					
Compensation for incremental operating cost for compressors in five domestic refrigeration enterprises (BPL, Maharaja, Videocon, Whirlpool, Sarkar)	IBRD		\$1,237,521	\$146,127	\$1,383,648
SOLVENT					
CFC-113					
Conversion of cleaning and coating processes based on CFC-113 and CTC to processes based on IPA at Vidyut Metalics Ltd. (VML)	UNIDO	19.7	\$225,452	\$29,309	\$254,761 11.45
Conversion of cleaning and coating processes based on CFC-113 to IPA and xylene at Microraj Electronics PVT Ltd. & RCC (Sales) PVT Ltd., Hyderabad (MRJ)	UNIDO	4.3	\$85,431	\$11,106	\$96,537 19.73
Multiple solvents					
Conversion of cleaning processes from TCA and CTC to non-ODS solvent cleaning technologies (trichloroethylene and alkozypropanol) at Videocon Group (VDC)	UNIDO	7.2	\$234,978	\$30,547	\$265,525 32.64
PROCESS AGENT					
Process conversion					
Phaseout of use of Carbon tetrachloride as process agent in the production of endosulphan by Excel Industries Limited	IBRD	375.0	\$366,000	\$47,580	\$413,580 0.98
Total for India		1,081.8	\$4,686,670	\$590,534	\$5,277,204
IRAN					
FOAM					
Flexible					
Phasing out ODS in manufacturing of flexible PU slabstock foam through the use of liquid CO2 blowing technology at Bahman Plastic Co.	UNIDO	83.0	\$485,929	\$63,171	\$549,100 5.85
HALON					
Banking					
Halon management program	France		\$511,175		\$511,175
REFRIGERATION					
Commercial					
Conversion from CFC-11 to HCFC-141b and CFC-12 to HFC-134a technology in the manufacture of domestic and commercial refrigeration at the Sherkate Sanayee Emerson (Emerson Co).	UNIDO	45.8	\$343,873	\$44,703	\$388,576 7.20
Phasing out of CFC-11 by conversion to HCFC-141b and CFC-12 to HFC-134a in manufacture of commercial refrigeration at the second group of Iranian Commercial Refrigerator Manufacturers	UNIDO	42.5	\$309,966	\$40,296	\$350,262 7.29

LIST OF PROJECTS AND ACTIVITIES APPROVED FOR FUNDING

UNEP/OzL.Pro/ExCom/28/57

Annex III Page 10

Project Title	Agency	ODP Tonnes	Funds Approved (US\$)		C.E. Total (US\$/kg)
			Project	Support	
Conversion from CFC-11 to HCFC-141b and from CFC-12 to HFC-134a technology in the manufacture of commercial refrigeration equipment at Movaledsarma Co. (Zagross 1)	UNDP	77.6	\$816,698	\$99,837	\$916,535 10.53
Conversion from CFC-11 to HCFC-141b technology and from CFC-12 to HFC-134a technology in the manufacture of commercial refrigeration equipment at Foroughmanesh Co.	UNDP	35.8	\$399,803	\$51,974	\$451,777 11.17
Conversion from CFC-11 to HCFC-141b and CFC-12 to HFC-134a technology in the manufacture of domestic and commercial refrigeration at the Sherkate Broudati Ghandil Iran (Ghandil Co.)	UNIDO	27.5	\$335,423	\$43,605	\$379,028 12.21
Conversion from CFC-11 to HCFC-141b and from CFC-12 to HFC-134a technology in the manufacture of commercial refrigeration equipment at Behsarma Co.	UNDP	34.5	\$455,593	\$59,227	\$514,820 13.19
Conversion from CFC-11 to HCFC-141b technology and from CFC-12 to HFC-134a technology in the manufacture of commercial refrigeration equipment at Tahviah Garm va Sard Co.	UNDP	20.5	\$278,659	\$36,226	\$314,885 13.59
Compressor					
Replacement of CFC-12 refrigerant by HFC-134a at Iran Compressor Manufacturing Company (ICMC)	UNIDO		\$1,076,148	\$128,376	\$1,204,524
SOLVENT					
Multiple solvents					
Conversion to ODS-free technology at Dorcharkh Company	France	11.0	\$165,140		\$165,140 14.30
Total for Iran		378.1	\$5,178,407	\$567,415	\$5,745,822
JORDAN					
REFRIGERATION					
Commercial					
Phasing out of CFC-11 by conversion to HCFC-141b and CFC-12 to HFC-134a in manufacture of commercial refrigeration equipment at the Third Group of Jordanian Commercial Refrigerator Manufacturers	UNIDO	26.5	\$243,764	\$31,689	\$275,453 9.20
Phasing out of CFC-11 by conversion to HCFC-141b and CFC-12 to HFC-134a in manufacture of commercial refrigeration equipment at the second group of Jordanian Commercial Refrigerator Manufacturers	UNIDO	25.8	\$278,950	\$36,264	\$315,214 10.80
Refrigerant management plan					
Refrigerant management plan: technical assistance and support to develop regulations for ODS to implement the Environment law of 1995	UNIDO		\$20,000	\$2,600	\$22,600
Refrigerant management plan: phase I: training of trainers in good refrigerant management practices, phase II: national technicians training project	UNIDO		\$70,000	\$9,100	\$79,100

LIST OF PROJECTS AND ACTIVITIES APPROVED FOR FUNDING

UNEP/OzL.Pro/ExCom/28/57

Annex III Page 11

Project Title	Agency	ODP Tonnes	Funds Approved (US\$)		C.E. Total (US\$/kg)
			Project	Support	
Refrigerant management plan: customs training <i>To request UNIDO not to proceed with the disbursement of funds approved until the regulatory and legislative requirements to control imports and fiscal steps proposed by the Government of Jordan are put into place.</i>	UNIDO		\$38,250	\$4,973	\$43,223
Refrigerant management plan: national recovery and recycling project <i>To request UNIDO not to proceed with the disbursement of funds approved until the regulatory and legislative requirements to control imports and fiscal steps proposed by the Government of Jordan are put into place.</i>	UNIDO	19.1	\$311,950	\$40,554	\$352,504
SEVERAL					
Institutional strengthening					
Renewal of institutional strengthening	IBRD		\$113,333	\$14,733	\$128,066
Total for Jordan		71.4	\$1,076,247	\$139,912	\$1,216,159
KENYA					
REFRIGERATION					
Recovery/recycling					
Recovery and recycling project	Germany		\$98,725		\$98,725
Total for Kenya			\$98,725		\$98,725
KOREA, DPR					
SOLVENT					
CTC					
Conversion of metal cleaning processes from CTC solvent to TCE vapour degreasing at Ceramic Tools Factory (CTF) <i>The country programme should be updated by the agency which prepared it (UNEP) to reflect the CTC consumption in the sector identified during preparation of this and previous solvent projects in the country.</i>	UNIDO	19.8	\$206,657	\$26,865	\$233,522 10.44
Total for Korea, DPR		19.8	\$206,657	\$26,865	\$233,522
LEBANON					
AEROSOL					
Contract filler					
Conversion to CFC-free technology in the manufacture of aerosols at Societe Nougaim P.M.O.S.A.L.	UNDP	54.0	\$147,333	\$19,153	\$166,486 2.73
Conversion to CFC-free technology in the manufacture of aerosol at International Cosmetic Manufacturing Co. (Incoma). S.A.L.	UNDP	53.6	\$158,582	\$20,616	\$179,198 2.96
REFRIGERATION					
Preparation of project proposal					
Remaining issues for a RMP and preparation of strategy and projects for reduction of CFC emissions in centrifugal chillers	Germany		\$37,550		\$37,550

LIST OF PROJECTS AND ACTIVITIES APPROVED FOR FUNDING

UNEP/OzL.Pro/ExCom/28/57

Annex III Page 12

Project Title	Agency	ODP Tonnes	Funds Approved (US\$) Project	Support	C.E. Total (US\$/kg)
Remaining issues for a RMP and preparation of strategy and projects for reduction of CFC emissions in centrifugal chillers	France		\$45,750		\$45,750
Total for Lebanon		107.6	\$389,215	\$39,769	\$428,984
MACEDONIA					
REFRIGERATION					
Refrigerant management plan					
Refrigerant management plan: recovery and recycling	UNIDO	13.5	\$220,044	\$28,606	\$248,650
To request UNIDO not to proceed with the disbursement of funds approved until the regulatory and legislative requirements to control imports and fiscal steps proposed by the Government of Macedonia are put into place.					
Refrigerant management plan: training for good practices in refrigeration	UNIDO		\$70,000	\$9,100	\$79,100
Refrigerant management plan: training of customs officers	UNIDO		\$37,180	\$4,833	\$42,013
To request UNIDO not to proceed with the disbursement of funds approved until the regulatory and legislative requirements to control imports and fiscal steps proposed by the Government of Macedonia are put into place.					
Total for Macedonia		13.5	\$327,224	\$42,539	\$369,763
MALAYSIA					
FOAM					
Rigid					
Retroactive project for phasing-out ODS consumption in the manufacture of cold room panels by conversion to HCFC-141b at FMCP Sdn. Bhd.	UNDP	12.2	\$45,557	\$5,922	\$51,479 3.74
Phase-out of CFC-11 in the manufacture of cold room panels and insulation slabs by conversion to HCFC-141b at PKL Insulation.	UNDP	8.1	\$57,019	\$7,412	\$64,431 7.02
Phase-out of CFC-11 and R502 consumption at Thermo Cooling Engineering SDN. BHD.	UNDP	5.9	\$46,502	\$6,045	\$52,547 7.83
Phase-out CFC-11 consumption at Chong Brother Group of Companies	UNIDO	27.6	\$216,108	\$28,094	\$244,202 7.83
Phase out of CFC-11 consumption by conversion to HCFC-141b at Perniagaan Hower in the manufacture of sandwich panels	UNIDO	5.3	\$41,499	\$5,395	\$46,894 7.83
Phase-out of CFC-11 by conversion to HCFC-141b technology at Automated Plastics System Sdn. Bhd. In the manufacture of insulated fishing boxes	UNIDO	5.2	\$40,716	\$5,293	\$46,009 7.83
Conversion from CFC-11 to HCFC-141b technology in the manufacture of rigid polyurethane foam (spray and blocks) at Polyedge Trading	UNDP	10.3	\$80,650	\$10,485	\$91,135 7.83
Total for Malaysia		74.6	\$528,051	\$68,647	\$596,698

LIST OF PROJECTS AND ACTIVITIES APPROVED FOR FUNDING

UNEP/OzL.Pro/ExCom/28/57

Annex III Page 13

Project Title	Agency	ODP Tonnes	Funds Approved (US\$)		C.E.
			Project	Support	Total (US\$/kg)
MEXICO					
REFRIGERATION					
Multiple-subsectors					
Chiller concessional lending pilot project	UK	5.0	\$565,000		\$565,000
<i>The Multilateral Fund money repaid in the first phase of the project would be made available for redeployment by the Executive Committee within three years of project approval and would be usable, based on a decision to be taken by the Executive Committee, either for a second phase of chiller purchases in Mexico or for other specific ODS phaseout projects in that country.</i>					
Total for Mexico		5.0	\$565,000		\$565,000
MONGOLIA					
SEVERAL					
Institutional strengthening					
Institutional strengthening	UNEP		\$66,000	\$8,580	\$74,580
Total for Mongolia			\$66,000	\$8,580	\$74,580
NEPAL					
REFRIGERATION					
Refrigerant management plan					
Refrigerant management plan: policy development and related information dissemination	UNEP		\$6,000	\$780	\$6,780
Monitoring activities included in the Refrigerant Management Plan (RMP)	UNDP		\$8,894	\$1,156	\$10,050
National programme for recovery and recycling of refrigerants	UNDP	6.0	\$88,577	\$11,515	\$100,092
<i>To request UNDP not to proceed with the disbursement of funds approved until the regulatory and legislative requirements to control imports and fiscal steps proposed by the Government of Nepal are put into place.</i>					
Refrigerant management plan: training in monitoring and control of CFC and establishment of import/export licensing system	UNEP		\$44,400	\$5,772	\$50,172
<i>To request UNEP not to proceed with the disbursement of funds approved until the regulatory and legislative requirements to control imports and fiscal steps proposed by the Government of Nepal are put into place.</i>					
Refrigerant management plan: training of trainers in refrigeration	UNEP		\$70,000	\$9,100	\$79,100
Total for Nepal		6.0	\$217,871	\$28,323	\$246,194
NIGERIA					
FOAM					
Flexible					
Phaseout of CFC-11 by conversion to methylene chloride in the manufacture of flexible polyurethane foam (slabstock) at Diamond Foam Nigeria Ltd.	UNDP	22.7	\$112,150	\$14,580	\$126,730 4.94

LIST OF PROJECTS AND ACTIVITIES APPROVED FOR FUNDING

UNEP/OzL.Pro/ExCom/28/57

Annex III Page 14

Project Title	Agency	ODP Tonnes	Funds Approved (US\$)		C.E. Total (US\$/kg)
			Project	Support	
Phaseout of CFC-11 by conversion to methylene chloride in the manufacture of flexible polyurethane foam (slabstock) at United Foam Products Nig. Ltd.	UNDP	25.0	\$137,310	\$17,850	\$155,160 5.49
Phaseout of CFC-11 by conversion to liquid carbon dioxide blown technology in the manufacture of molded flexible polyurethane foam at Automotive Component Industries Ltd.	UNDP	37.0	\$204,761	\$26,619	\$231,380 5.53
Phaseout of CFC-11 by conversion to methylene chloride in the manufacture of flexible polyurethane foam (slabstock) at Tinuola Bay Industries Nig. Ltd.	UNDP	21.0	\$119,410	\$15,523	\$134,933 5.69
REFRIGERATION					
Domestic					
Replacement of refrigerant CFC-12 with HFC-134a and foam blowing agent CFC-11 with HCFC-141b in the manufacture of domestic refrigeration at United Technologies Ltd.	UNIDO	9.6	\$130,579	\$16,975	\$147,554 13.60
Replacement of refrigerant CFC-12 with HFC-134a and foam blowing agent CFC-11 with HCFC-141b in the manufacture of domestic refrigeration at Onward Electrical Industry Ltd.	UNIDO	10.7	\$146,927	\$19,101	\$166,028 13.74
Replacement of refrigerant CFC-12 with HFC-134a and foam blowing agent CFC-11 with HCFC-141b in the manufacture of domestic refrigeration at Soesons Ltd.	UNIDO	16.1	\$221,353	\$28,776	\$250,129 13.75
Total for Nigeria		142.1	\$1,072,490	\$139,424	\$1,211,914
PHILIPPINES					
SEVERAL					
Institutional strengthening					
Renewal of institutional strengthening	IBRD		\$139,333	\$18,113	\$157,446
Total for Philippines			\$139,333	\$18,113	\$157,446
ROMANIA					
REFRIGERATION					
Refrigerant management plan					
Refrigerant management plan: training for good practices in refrigeration	UNIDO		\$70,000	\$9,100	\$79,100
Refrigerant management plan: training of custom officers and development criteria for ODS and ODS consuming equipment imports	UNIDO		\$23,100	\$3,003	\$26,103
<i>To request UNIDO not to proceed with the disbursement of funds approved until the regulatory and legislative requirements to control imports and fiscal steps proposed by the Government of Romania are put into place.</i>					

LIST OF PROJECTS AND ACTIVITIES APPROVED FOR FUNDING

UNEP/OzL.Pro/ExCom/28/57

Annex III Page 15

Project Title	Agency	ODP Tonnes	Funds Approved (US\$)		C.E.
			Project	Support	Total (US\$/kg)
Refrigerant management plan: recovery and recycling <i>To request UNIDO not to proceed with the disbursement of funds approved until the regulatory and legislative requirements to control imports and fiscal steps proposed by the Government of Romania are put into place.</i>	UNIDO	50.0	\$373,840	\$48,599	\$422,439
Total for Romania		50.0	\$466,940	\$60,702	\$527,642
SUDAN					
AEROSOL					
Filling plant					
Phasing out of CFCs at Tag Cosmetics Ltd.	UNIDO	45.1	\$131,718	\$17,123	\$148,841 2.92
REFRIGERATION					
Refrigerant management plan					
Refrigerant management plan: training for good practices in refrigeration	UNIDO		\$70,000	\$9,100	\$79,100
Refrigerant management plan: recovery and recycling <i>To request UNIDO not to proceed with the disbursement of funds approved until the regulatory and legislative requirements to control imports and fiscal steps proposed by the Government of Sudan are put into place.</i>	UNIDO	50.0	\$350,000	\$45,500	\$395,500
Refrigerant management plan: training of customs officers and development criteria for ODS and ODS consuming equipment imports <i>To request UNIDO not to proceed with the disbursement of funds approved until the regulatory and legislative requirements to control imports and fiscal steps proposed by the Government of Sudan are put into place.</i>	UNIDO		\$38,250	\$4,973	\$43,223
SEVERAL					
Institutional strengthening					
Renewal of institutional strengthening, phase II	UNEP		\$112,200	\$14,586	\$126,786
Total for Sudan		95.1	\$702,168	\$91,282	\$793,450
SYRIA					
REFRIGERATION					
Domestic					
Conversion from CFC-11 to HCFC-141b and CFC-12 to HFC-134a in the production of refrigerators and freezers at Golden Penguin Co.	UNIDO	18.4	\$247,481	\$32,173	\$279,654 13.45
Conversion from CFC-11 to HCFC-141b and CFC-12 to HFC-134A in the production of refrigerators and freezers at Alaman Co.	UNIDO	15.9	\$215,910	\$28,068	\$243,978 13.58
Commercial					
Conversion from CFC-11 to HCFC-141b and from CFC-12 to HFC-134a technology in the manufacture of commercial refrigeration equipment at Al-Ihsan Co.	UNDP	37.5	\$497,250	\$64,643	\$561,893 13.27
Total for Syria		71.8	\$960,641	\$124,883	\$1,085,524

LIST OF PROJECTS AND ACTIVITIES APPROVED FOR FUNDING

UNEP/OzL.Pro/ExCom/28/57

Annex III Page 16

Project Title	Agency	ODP Tonnes	Funds Approved (US\$) Project	Support	C.E. Total (US\$/kg)	
THAILAND						
FOAM						
Flexible						
Conversion from CFC-11 to low index additive (LIA) technology in the manufacture of flexible polyurethane foam at P.T. Foam Chiangmai L.P.	UNDP	12.7	\$79,120	\$10,286	\$89,406	6.23
Rigid						
Conversion from CFC-11 to water-based technology in the manufacture of rigid polyurethane foam at Thai Steel Door L.P.	UNDP	10.0	\$78,300	\$10,179	\$88,479	7.83
Conversion from CFC-11 to HCFC-141b technology in the manufacture of commercial refrigeration equipment at Arco Industry Co., Ltd	IBRD	16.8	\$131,544	\$17,101	\$148,645	7.83
Conversion to HCFC-141b technology in the manufacture of commercial refrigerator and display cabinets at Makassan Metal Works	IBRD	9.3	\$72,819	\$9,466	\$82,285	7.83
REFRIGERATION						
Commercial						
Umbrella project to convert CFC-12 commercial refrigeration to HFC-134a, and CFC-11 to HCFC-141b as the blowing agent for foam insulation at 224 small-and-medium-sized enterprises (second tranche)	IBRD		\$1,000,000	\$120,000	\$1,120,000	
Total for Thailand		48.8	\$1,361,783	\$167,032	\$1,528,815	
TUNISIA						
AEROSOL						
Filling plant						
Phasing out of CFCs at Laboratoires Parcos	UNIDO	29.8	\$76,127	\$9,897	\$86,024	2.55
Total for Tunisia		29.8	\$76,127	\$9,897	\$86,024	
TURKEY						
FOAM						
Flexible						
Conversion from CFC-11 into low index additive (LIA) technology for flexible slabstock foam at Elta	IBRD	21.3	\$130,597	\$16,978	\$147,575	6.13
Rigid						
Phasing out of CFC-11 by conversion to HCFC-141b in the manufacture of rigid polyurethane panels for thermal insulation for cold rooms and cold storages at Izotek	UNIDO	74.8	\$430,721	\$55,994	\$486,715	5.75
Total for Turkey		96.1	\$561,318	\$72,971	\$634,289	
VENEZUELA						
FOAM						
Polystyrene/polyethylene						
Phasing out CFC-12 at Fandec C.A. (EPSR Foam)	UNIDO	45.0	\$290,481	\$37,763	\$328,244	6.46
Total for Venezuela		45.0	\$290,481	\$37,763	\$328,244	

LIST OF PROJECTS AND ACTIVITIES APPROVED FOR FUNDING

UNEP/OzL.Pro/ExCom/28/57

Annex III Page 17

Project Title	Agency	ODP Tonnes	Funds Approved Project	(US\$) Support	C.E. Total (US\$/kg)
VIETNAM					
REFRIGERATION					
MAC					
CFC emission reductions in spinning halls air conditioning systems chillers, pilot project	France	3.6	\$197,340		\$197,340
SEVERAL					
Institutional strengthening					
Renewal of institutional strengthening, phase II	UNEP		\$91,520	\$11,898	\$103,418
Total for Vietnam		3.6	\$288,860	\$11,898	\$300,758
ZIMBABWE					
SEVERAL					
Institutional strengthening					
Renewal of institutional strengthening, phase II	UNEP		\$114,033	\$14,824	\$128,857
Total for Zimbabwe			\$114,033	\$14,824	\$128,857
REGION: ASP					
HALON					
Banking					
Survey for halon banking management plan in West Asia	Germany		\$17,500		\$17,500
Survey for halon banking management plan in West Asia	France		\$17,500		\$17,500
Total for Region: ASP			\$35,000		\$35,000
REGION: EUR					
SEVERAL					
Technical assistance/support					
Promoting compliance with the Montreal Protocol in countries with economies in transition (Croatia and Romania)	Germany		\$67,800		\$67,800
Total for Region: EUR			\$67,800		\$67,800
TOTAL:		5,586.1	\$60,822,128	\$6,605,940	\$67,428,068

Summary of approved project proposals

Sector	Tonnes ODP	Funds Approved (US\$)		
		Project	Support	Total
BILATERAL COOPERATION				
Foam	5.0	\$108,480		\$108,480
Halon		\$546,175		\$546,175
Refrigeration	83.6	\$3,451,865		\$3,451,865
Solvent	11.0	\$165,140		\$165,140
Several		\$67,800		\$67,800
TOTAL:	99.6	\$4,339,460		\$4,339,460
INVESTMENT PROJECT				
Aerosol	314.1	\$938,414	\$121,994	\$1,060,408
Foam	2,753.5	\$18,851,965	\$2,317,738	\$21,169,703
Fumigant	84.4	\$2,344,440	\$267,888	\$2,612,328
Halon	349.1	\$466,200	\$60,606	\$526,806
Production		\$10,000,000	\$900,000	\$10,900,000
Refrigeration	1,334.7	\$18,297,807	\$2,258,879	\$20,556,686
Solvent	275.8	\$4,214,457	\$500,815	\$4,715,272
Process agent	375.0	\$366,000	\$47,580	\$413,580
TOTAL:	5,486.5	\$55,479,283	\$6,475,500	\$61,954,783
WORK PROGRAMME AMENDMENT				
Several		\$1,003,385	\$130,440	\$1,133,825
TOTAL:		\$1,003,385	\$130,440	\$1,133,825
Summary by Parties and Implementing Agencies				
Belgium	5.0	\$108,480		\$108,480
France	14.6	\$936,905		\$936,905
Germany		\$221,575		\$221,575
Japan	75.0	\$2,507,500		\$2,507,500
UK	5.0	\$565,000		\$565,000
IBRD	1,495.1	\$22,176,230	\$2,376,852	\$24,553,082
UNDP	2,036.1	\$15,627,941	\$1,947,733	\$17,575,674
UNEP		\$773,819	\$100,596	\$874,415
UNIDO	1,955.3	\$17,904,678	\$2,180,759	\$20,085,437