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环境规划署

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执行蒙特利尔议定书  
多边基金执行委员会  
第四十四次会议  
2004年11月29日至12月3日，布拉格

### 项目提案：印度

本文件包含基金秘书处有关下述项目提案的意见和建议：

#### 淘汰

- 泡沫塑料行业淘汰计划（第三期） 开发计划署
- 以制冷设备维修行业为重点的淘汰氟氯化碳  
消费国家计划（第二期） 开发计划署、环境规划署、  
工发组织、德国和瑞士
- 制冷设备制造行业淘汰氟氯化碳计划（第三期） 开发计划署

## 项目评价表——多年期项目

国家：印度

项目名称

双边/执行机构

以制冷设备维修行业为重点的印度淘汰氟氯化碳消费国家计划 (第二期)	德国技术合作署代表德国 Infras 代表瑞士 开发计划署, 环境规划署, 工发组织
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次项目名称

(a) 在泡沫塑料行业消除氟氯化碳的行业淘汰计划	开发计划署
(b) 在制冷(制造)行业淘汰氟氯化碳计划	开发计划署, 工发组织
(c) 服务行业国家淘汰计划、海关和政策——服务行业部分	德国技术合作署、Infras、开发计划署、 环境规划署
(d) 服务行业国家淘汰计划、海关和政策——海关和政策部分	环境规划署

国家协调机构：	MOEF
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最新报告的项目所涉消耗臭氧层物质的消费数据

A: 第七条数据 (ODP 吨, 2002 年, 截至 2004 年 10 月)

氟氯化碳	3,917.70
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B: 国家方案行业数据(ODP 吨, 2003 年, 截至 2004 年 10 月)

ODS	泡沫塑料	制冷	气雾剂	反应剂
氟氯化碳	1,536.05	2,201.10	157	23.58

仍符合供资条件的剩余氟氯化碳消费量 (ODP 吨)	0
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本年业务计划：供资总额 3.633 百万美元；整体淘汰 884.5 ODP 吨。

项目数据		2004	2005	2006	2007	2008	2009	2010	合计	
氟氯化碳 (ODP 吨)	蒙特利尔议定书限额	6,681	3,340	3,340	1,005	1,005	1,005	0	不适用	
	年度消费限量	4,362	3,061	2,307	1,005	1,005	1,005	0	不适用	
	进行中的项目的年度淘汰量	926	115	0	0	0	0	0	1,041	
	新解决的年度淘汰量	749	739	496	147	145	173	0	2,448	
总共将淘汰的消耗臭氧层物质消费		1,301	754	1,302	0	0	1,005	0	4,362	
最后项目费用 (美元):										
为牵头机构德国供资		第 1 期	第 2 期	105,090	436,200	436,200	923,400	0	0	2,415,260
		414,370	100,000							
为瑞士供资		353,020	256,650	256,650	367,140	367,140	0	0	0	1,600,600
为开发计划署供资		277,200	2,027,050	1,048,350	451,887	152,340	199,460	0	0	4,156,287
为环境规划署供资		256,300	256,300	85,000	85,000	85,000	32,400	0	0	800,000
项目供资总额		1,300,890	2,640,000	1,495,090	1,340,227	1,040,680	1,155,260	0	0	8,972,147
最后支助费用 (美元)										
牵头机构德国的支助费用		53,868	13,000	13,662	56,706	56,706	120,042	0	0	313,984
瑞士的支助费用		45,893	33,365	33,365	47,728	47,728	0	0	0	208,079
开发计划署的支助费用		20,790	173,400	87,063	37,944	11,426	14,960	0	0	345,582
环境规划署的支助费用		33,319	33,319	11,050	11,050	11,050	4,212	0	0	104,000
支助费用总额		153,870	253,084	145,140	153,428	126,910	139,214	0	0	971,645
多边基金总共承诺的费用 (美元)		1,454,760	2,893,084	1,640,230	1,493,655	1,167,590	1,294,474	0	0	9,943,792
项目最终成本效益值 (美元/公斤)									不适用	

供资申请：核准上述第二期 (2004 年) 供资

秘书处建议	有待提出
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## 项目说明

### 背景

1. 多边基金执行委员会在 2004 年 4 月第四十二次会议上核准了“以制冷设备维修行业为重点的印度淘汰氟氯化碳消费国家计划”。根据该计划，印度将在 2010 年 1 月 1 日以前淘汰所有氟氯化碳消费。该项目将以前核准的多个行业计划与新活动合并在一个国家计划中。下表 1 对此作了概述。

表 1：国家淘汰氟氯化碳消费计划各个组成部分概览

以前的计划名称/组成部分	核准	机构 (牵头)	核准供资总额 (美元)	2004 年阶段 付款申请 (美元)
在泡沫塑料行业消除氟氯化碳的行业淘汰计划	第三十七次会议	开发计划署	5,424,577	1,500,000 (第 3 期)
在制冷(制造)行业淘汰氟氯化碳计划	第三十八次会议	开发计划署 工发组织	3,609,186	250,000 (第 3 期)
服务行业国家淘汰计划、海关和政策——服务行业部分	第四十二次会议	德国 瑞士 开发计划署 环境规划署	6,338,120	890,000 (第 2 期)
服务行业国家淘汰计划、海关和政策——海关和政策部分	第四十二次会议	环境规划署		

2. 这四个项目原先有不同的绩效和报告要求，在制定一个统一的国家计划的过程中对此进行了广泛的协调。“印度与多边基金执行委员会关于以制冷设备维修行业为重点的印度淘汰氟氯化碳消费国家计划的协定”(UNEP/OzL.Pro/ExCom/42/54, 附件十三)详细说明了从 2004 年起的报告要求以及提供的资金。

3. 为了实现氟氯化碳消费量的减少目标，该计划包括投资、非投资、技术援助和能力建设活动。

4. 用于两个新部分的第一期供资共计 1,300,890 美元，在 2004 年 4 月计划被核准时拨付，用于实施《第一阶段执行工作计划》，该计划涵盖的期间是 2004 年 4 月至 2005 年 3 月。第四十二次会议核准了用于以前两个行业计划的第二期供资。在国家淘汰氟氯化碳消费计划下，在一个文件中对所有部分和以前独立的行业计划提供报告和申请供资，这还是第一次。同时，以前的行业计划从 1 月至 12 月执行时间表变成了 4 月至 3 月时间表。

5. 德国政府作为牵头执行机构代表印度政府提交了 2004 年 4 月至 2005 年 3 月期间的进展报告，以及 2005 年 4 月至 2006 年 3 月期间的执行工作计划。

6. 对于**新部分**，本报告包含从 2004 年 4 月一直到 2004 年 9 月报告时这一期间《第一阶段执行工作计划》中规划的活动的执行进展情况。因为新部分不必对照绩效目标来作出解释，所以没有必要联系绩效来报告。对于**以前的行业计划**，报告包含上一年的进展情况，也就是说符合 2003 年的报告要求。

7. 德国技术合作署作为牵头执行机构，正在提交有关 2004 年的活动实施和实现情况的报告，供多边基金执行委员会第四十四次会议审议，并且申请核准也包含在本报告中的、覆盖 2005 年 4 月至 2006 年 3 月这一期间的《第二阶段执行工作计划》。德国技术合作署申请对所有的部分拨付已经核准的第二期供资 2,640,000 美元，再加上相应的支助费用，用于执行《第二阶段执行工作计划》。《第二阶段执行工作计划》覆盖的期间是 2005 年 4 月至 2006 年 3 月，载于本报告第 3 部分。

8. 随着这第二期供资，印度将能够继续企业和行业的淘汰氟氯化碳活动，开展培训活动并且采取政策、公共关系、宣传和其他认为对于维持已经实现的氟氯化碳消费量减少所必要的行动，并且确保与 2,640,000 美元的第二期供资有关的“协定”中规定的绩效目标的实现。

#### 服务行业、海关和政策

9. 德国政府作为牵头执行机构提交了覆盖 2005 年 4 月至 2006 年 3 月这一期间的《第二阶段执行工作计划》，并且申请拨付 890,000 美元的第二期供资和相应的支助费用。《第二阶段执行工作计划》提供了有关共计 158 ODP 吨的消耗臭氧层物质淘汰方面的活动、目标和影响以及预计支出方面的详细信息，并且指出了实施这些具体活动的相关机构。

10. 下表 2 提供了申请供资的详细情况。

表 2：服务行业、海关和政策部分供资细目

机构	当期供资（美元）	支助费用（美元）
德国政府	100,000	13,000
瑞士政府	256,650	33,365
开发计划署	277,050	20,779
环境规划署	256,300	33,319
总计	890,000	100,463

#### 制冷设备制造行业

11. 执行委员会第三十八次会议核准了印度在制冷设备制造行业中淘汰氟氯化碳的计划，供资总额为 3,609,186 美元，将分五期提供，以便在 2007 年 1 月 1 日以前在印度制冷设备制造行业中全部淘汰氟氯化碳。该计划将由两个机构执行。工发组织将要执行的计划部分包括在运输制冷次级行业中的淘汰，开发计划署作为牵头执行机构将要执行的计划部分包括除运输制冷次级行业以外的制冷设备制造行业中其他所有次级行业。淘汰计划将包含通

过将投资、技术支持和管理部分相结合，在制冷设备制造行业（汽车空调行业除外）的所有剩余的符合供资条件的企业中进行技术转换。下表 3 提供了核准的供资总额的详细情况。

表 3：制冷（制造）部分核准供资的细目

活动	供资	机构
开发计划署将实施的投资活动（包括应急活动）	US\$ 2,675,986	开发计划署
工发组织将实施的投资活动（包括应急活动）	US\$ 673,200	工发组织
政策/管理活动	US\$ 260,000	开发计划署
<b>总计</b>	<b>US\$ 3,609,186</b>	

12. 2003 年至 2004 年期间制冷设备制造行业计划下的活动实施进度报告和 2005 年工作计划由德国政府提供，作为以制冷设备维修行业为重点的印度淘汰氟氯化碳消费国家计划下报告的一个组成部分。制冷设备制造行业计划在 2003 年的目标是通过实施执行委员会以前对印度商业制冷行业核准的 9 个个别项目和总体项目，淘汰 250 ODP 吨。

13. 根据进度报告，所有企业都达到了项目目标并且履行了所有项目义务，例如淘汰氟氯化碳，采用无氟氯化碳生产，耗尽氟氯化碳库存，销毁多余的和被替换的基准设备等。有关各项目的移交议定书在 2003 年由各方提交和签署。截止到 2003 年 12 月，总共淘汰了 286.10 ODP 吨，超过了 2003 年年度氟氯化碳淘汰目标。

14. 与正在进行的项目的实施有关的 2004 年的目标是 187 ODP 吨。截止到 2004 年 9 月，剩余的以前核准的个别项目有四分之三已经完成各种活动。到 2004 年年末，将完成所有剩余的以前核准的个别项目，淘汰大约 60 ODP 吨氟氯化碳。

15. 在制冷制造行业计划下，2004 年的淘汰目标在商业制冷次级行业对开发计划署确定为 140 ODP 吨，在运输制冷次级行业对工发组织确定为 40 ODP 吨。根据进度报告，为第一批计划范围内的企业采购的设备如今正在分发给有关接收者。在这些企业的许多企业中，活动预定在 2004 年 11 月以前完成。加上通过完成所有以前核准的个别项目所实现的氟氯化碳淘汰量，这些活动有助于实现 368 ODP 吨的 2004 年淘汰目标。

#### 2005 年年度执行方案

16. 2005 年年度执行方案包含开发计划署在制冷设备制造行业要实施的计划活动，包括工发组织在运输制冷次级行业要实施的活动。该行业 2004 年估计的氟氯化碳消费量为 547 ODP 吨，在 2006 年预计将减少 352 ODP 吨，为 195 ODP 吨，低于行业计划中预计的数字（203 ODP 吨）。拟议的活动包括用无消耗臭氧层物质技术替换以消耗臭氧层物质为基础的生产设备。该期申请的供资为 250,000 美元，开发计划署支助费用 21,621 美元。

## 泡沫塑料行业

17. 2002年7月在执行委员会第三十七次会议上核准了印度泡沫塑料行业消除氟氯化碳的行业淘汰计划,原则上核准了5,900,789美元的供资总额,包括机构支助费用476,212美元,以淘汰1,655.0 ODP吨氟氯化碳。计划将从2002年至2006年分五期执行。在2002年7月第三十七届会议上核准了150万美金的第一期供资,机构支助费用131,000美元,预计将淘汰221 ODP吨氟氯化碳。在第四十一次会议上核准了第二期供资175万美元,机构支助费用153,300美元。

18. 第三十七次会议核准的最初协定规定了开发计划署的作用,特别是,“向执行委员会证实表1所列控制目标及相关活动已经完成”;以及“确保必要的核查审计由合适的独立技术专家进行”。在第四十一次会议上,执行委员会在第41/44号决定中要求“……开发计划署按照有关泡沫塑料行业淘汰氟氯化碳计划的协定的要求,在2003-2004年年度执行方案中预做安排,以便拟订用来核实2003年及以后数年的消费限额的独立审计方法”。

19. 在第四十二次会议上,执行委员会核准了“以制冷维修行业为重点的印度淘汰氟氯化碳消费国家计划”(淘汰氟氯化碳消费国家计划),其中包含以前的行业协定,包括“印度泡沫塑料行业淘汰氟氯化碳协定”。协定指出“本协定包括和取代执行委员会与印度在第三十七次会议上为淘汰印度泡沫塑料行业中的氟氯化碳而签订的协定”。协定还在附录2-A中提出了若干只从2004年开始的淘汰目标。对2003年没有作规定。因此泡沫塑料行业计划下的报告要求对2003年的活动仍然有效。

20. 泡沫塑料行业计划协定下约定的氟氯化碳消费限额和削减目标以及供资时间表列于下表4。国家淘汰氟氯化碳消费计划包含了同样的目标。

表4：在印度的泡沫塑料行业淘汰氟氯化碳消费的供资时间表和控制目标

参数	2002	2003	2004	2005	2006	2007	总计
泡沫塑料行业的年度氟氯化碳消费限量 (ODP 公吨)	1,655	1,434	1,037	529	128	0	不适用
泡沫塑料行业的年度氟氯化碳淘汰目标 (ODP 公吨)	221	397	508	401	128	0	1,655
年度供资分期付款总额 (美元) *	1,500,000	1,750,000	1,500,000	450,000	224,577	0	5,424,577
机构支助费用 (美元)	131,000	153,500	131,000	40,500	20,212	0	476,212
多边基金总共承诺的费用 (美元)	1,631,000	1,903,500	1,631,000	490,500	244,789	0	5,900,789

\* 包括2002-2004年各年的政策和管理支助费用100,000美元。

### 关于2003-2004年执行方案的报告

21. 下面概述德国技术合作署代表开发计划署报告的2003-2004年执行方案实现情况:

- (a) 2002年8月在收到第一期供资1,500,000美元后开始了准备活动。2003年11月为2004年的年度方案拨付了1,750,000美元的第二期供资。约定项目将通过直接

执行的方式实施。2003 年 2 月开发计划署和 MOEF 就执行运作机制达成了一致意见。

- (b) 开发计划署第一阶段项目文件在 2003 年 3 月提交给了 MOEF。2003 年 5 月所有方面都在开发计划署第一阶段项目文件上签了字。
- (c) 2003 年 4 月/5 月 MOEF 暂时批准了第一份 28 个参与企业的名单。在完成所有活动后，实现的氟氯化碳淘汰将为 2004 年年度氟氯化碳淘汰目标作出 279.20 公吨的贡献。
- (d) 2003 年 3 月到 2003 年 11 月开发计划署采取了必要的步骤来授予合同。
- (e) 行业淘汰计划单位的国家方案主管从 2003 年 6 月开始履行职责。后勤和基础设施安排已经完成，SPPU 全面启动。
- (f) 第一批 28 个企业的基准核查在 2003 年 8 月进行。以后各批参与/采购的企业的核查已经开始，正在进行中。

22. 2003 年的年度氟氯化碳淘汰目标是 397 公吨；将通过完成以前核准的个别项目实现。到 2003 年 12 月，已经通过完成十个以前核准的个别项目实现了 481.11 ODP 吨的淘汰量，超过了 2003 年的年度氟氯化碳淘汰目标。

#### *2004 年活动报告*

23. 在 2004 年 3 月到 7 月期间，完成了所有剩余的以前核准的个别项目的活动，消除了总共 278 ODP 吨氟氯化碳。一些活动正在进行中，包括分发一部分采购的设备、投产和培训。加上通过完成所有以前核准的个别项目所实现的氟氯化碳淘汰量，这将有助于实现 2004 年 508 ODP 吨的淘汰目标。

24. 2004 年 3 月/4 月 MOEF 对开发计划署批准了第二批 42 个参与计划的企业。2004 年 8 月为第二批 42 个参与企业发出了采购订单。这些企业的累积氟氯化碳消费量共计约 220 ODP 吨，这将有助于实现 2005 年的淘汰目标。现在和以后各批参与企业的基准核查工作正由 SPPU 进行。

#### *2005 年年度执行方案*

25. 为执行第三期计划申请 1,500,000 美元的供资和 131,000 美元的开发计划署支助费用。

26. 2005 年的计划淘汰目标是 401 ODP 吨，这一消费量与以前为行业计划核准的项目无关。如果 2004 年方案的氟氯化碳淘汰量最终超过计划，那么 401 ODP 吨可能减少；两年加起来需要淘汰 909 ODP 吨氟氯化碳。

27. 正在进行的项目的协调和监测工作将继续，同时将进行企业一级的基准核查视察，并

将为接受的企业举办一个技术讲习班。

28. 2005 年年度执行方案和 2003 年年度方案的报告附于本文件中。

## 秘书处的评论和建议

### 评论

#### 一般

29. 在完成本文件时，印度还没有根据《蒙特利尔议定书》报告其消费量。有关该消费量的报告一直是国家淘汰氟氯化碳消费计划的要求，尽管就 2003 年而言，对于淘汰氟氯化碳消费国家计划下的国家氟氯化碳消费没有绩效标准。

30. 德国政府提出的供资申请包括由四个不同机构执行的淘汰氟氯化碳消费国家计划的这三个不同部分。下表 5 是对供资申请组成的概述。

表 5：供资申请概览

机构	部分	申请供资	申请支助费用
德国	服务行业、海关和政策	\$100,000	\$13,000
瑞士	服务行业、海关和政策	\$256,650	\$33,365
开发计划署	泡沫塑料行业	\$1,500,000	\$131,000
	制冷（制造）行业	\$250,000	\$21,621
	服务行业、海关和政策	\$277,050	\$20,779
环境规划署	服务行业、海关和政策	\$256,300	\$33,319
<b>总计</b>		<b>\$2,640,000</b>	<b>\$253,084</b>

#### 服务行业、海关和政策

31. 与服务行业、海关和政策有关的部分在 2004 年 4 月才在原则上得到核准，并刚刚开始执行；因此，处于执行第一年的这一部分没有报告要求。2005 年的年度执行方案很详尽。

#### 制冷

32. 值得注意的是，印度政府没有向多边基金秘书处提交 2003 年印度国家方案执行情况的报告。因此，秘书处没有掌握与各工业行业有关的 2003 年氟氯化碳消费量数据。2002 年的数据表明制冷设备制造行业的氟氯化碳消费量为 849.04 ODP 吨。

33. 秘书处向德国技术合作署（德国）和开发计划署指出，从德国技术合作署/开发计划署收到的报告没有提供任何有关制冷设备制造行业中 2003 年消费量的核查情况、2005 年年度方案附件 2 中包含的减少量以及报告的企业淘汰量的核查情况的信息。



34. 核查审计问题在第四十一次会议以前就联系开发计划署的第二期供资申请提了出来。开发计划署当时回答说开发计划署和印度政府会在 2004 年与一个独立实体订立转包合同，以便通过生产、进口和出口数据的审计进行制冷行业的国家消费量核查。还计划对正在实施项目的企业进行核查，以证实其基准消费量并且确定 2003 年的确发生了淘汰情况。预计独立实体还将核实 2003 年年度方案中规定的活动。秘书处在向执行委员会第四十一次会议提交的意见中提出了独立核查的问题。

### 泡沫塑料

35. 有关 2003-2004 年方案的报告表明 2003 年正在进行的项目淘汰了 481.11 ODP 吨氟氯化碳，超过约定的目标 397.0 ODP 吨。报告还表明截止到 2004 年 9 月，在行业计划之前核准的所有个别的或总体的泡沫塑料项目都已完成，并且淘汰了 278 ODP 吨。

36. 开发计划署证实前一年的消费限额和相关淘汰目标已经实现，并且提供了一个发生转换的公司的名单及其有关的消费量。项目所淘汰的氟氯化碳的数量和泡沫塑料行业中氟氯化碳的消费量未通过独立审计进行核实。

37. 秘书处还没有收到证实根据年度执行方案开展了为前一年计划的活动的报告。此外，报告未提及执行委员会对在 2003-2004 年年度执行方案中预做安排以拟订一个用来核实 2003 年行业中的消费量的独立审计方法的明确要求。

38. 开发计划署指出在执行委员会第四十四次会议召开（2004 年 11 月 22 日）之前将很快提交国家消费量的核查报告。在完成本文件时，秘书处还没有收到报告，因此，不能评价该文件是否满足所有报告要求。执行委员会是否有可能及时审查该报告还是个未知数。在执行委员会会议期间将提出建议。

39. 为执行印度泡沫塑料淘汰计划下 2003-2004 年年度执行方案而申请 1,500,000 的供资及 131,000 美元的相关机构支助费用与协定相符。

### **建议**

40. 谨提议执行委员会考虑核准与下述项目有关的供资申请：

- (a) 淘汰计划的服务行业、海关和政策部分，包括相关的支助费用申请，如上表 5 所示；和
- (b) 制冷（制造）行业和泡沫塑料行业，根据秘书处在第 33 和 34 段中的意见（制冷行业）以及第 37 到 39 段（泡沫塑料行业）中的意见，一旦收到尚未收到的核查报告，上表 5 所示的相关期数的拨款就会开始。

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# **INDIA**

## **NATIONAL CFC CONSUMPTION PHASE-OUT PLAN FOR INDIA FOCUSSING ON THE REFRIGERATION SERVICE SECTOR**

**IND/REF/42/INV/369**

**Progress Report on the 1<sup>st</sup> Phase Work Plan  
(April 2004 – March 2005)  
And  
Work Plan / Request for Funding for the 2<sup>nd</sup> Phase  
(April 2005 – March 2006)**

Prepared by GTZ, the Lead Implementing Agency, with input from  
INFRAS, UNDP, UNEP and UNIDO (Co-operating Executing Agencies)  
In cooperation with the Ozone Cell / MoEF

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## **NATIONAL CFC CONSUMPTION PHASE-OUT PLAN FOR INDIA FOCUSSING ON THE REFRIGERATION SERVICE SECTOR (NCCoPP)**

### ***INTRODUCTION***

The National Phase-out Plan for CFC Consumption in India focussing on the Refrigeration Service Sector (NCCoPP) was approved by the Executive Committee of the Multilateral Fund at its 42<sup>nd</sup> Meeting on April 2<sup>nd</sup> 2004. Under the Plan, India will phase-out the consumption of all Annex A Group I CFCs in the Refrigeration Service sector, by 01 January 2010. A total of US\$ 6.338 million in MLF funding was approved in principle for implementation of the Plan that includes a phased reduction in CFC consumption over the period 2004 – 2010 according to an agreed schedule enshrined in the “Agreement” between the Executive Committee and the Government of India (UNEP/OzL.Pro/ExCom/42/54, Annex XIII - AGREEMENT BETWEEN INDIA AND THE EXECUTIVE COMMITTEE OF THE MULTILATERAL FUND FOR THE NATIONAL PHASE-OUT OF CFC CONSUMPTION IN INDIA FOCUSSING ON THE REFRIGERATION SERVICE SECTOR).

To achieve the targeted reductions in CFC consumption, the Plan includes investment, non-investment, technical assistance, and capacity building activities.

The first funding tranche in the amount of US\$ 1’300’890 was released on approval of the Plan in April 2004 for the implementation of the First Phase Implementation Work Plan covering the period April 2004 – March 2005.

This report covers the progress made in the implementation of the planned activities in the First Phase Implementation Work Plan during the period April 2004 up to the time of reporting in September 2004, and the achievements versus the performance targets specified in the aforementioned “Agreement” related to the first tranche of funding of US\$ 1.3 million. Details of the progress made in implementation of the planned activities in the First Phase Implementation Work Plan are provided in Section 3 of this report.

As it is the starting phase of the project, mainly preparatory activities have been taken up and completed up to date.

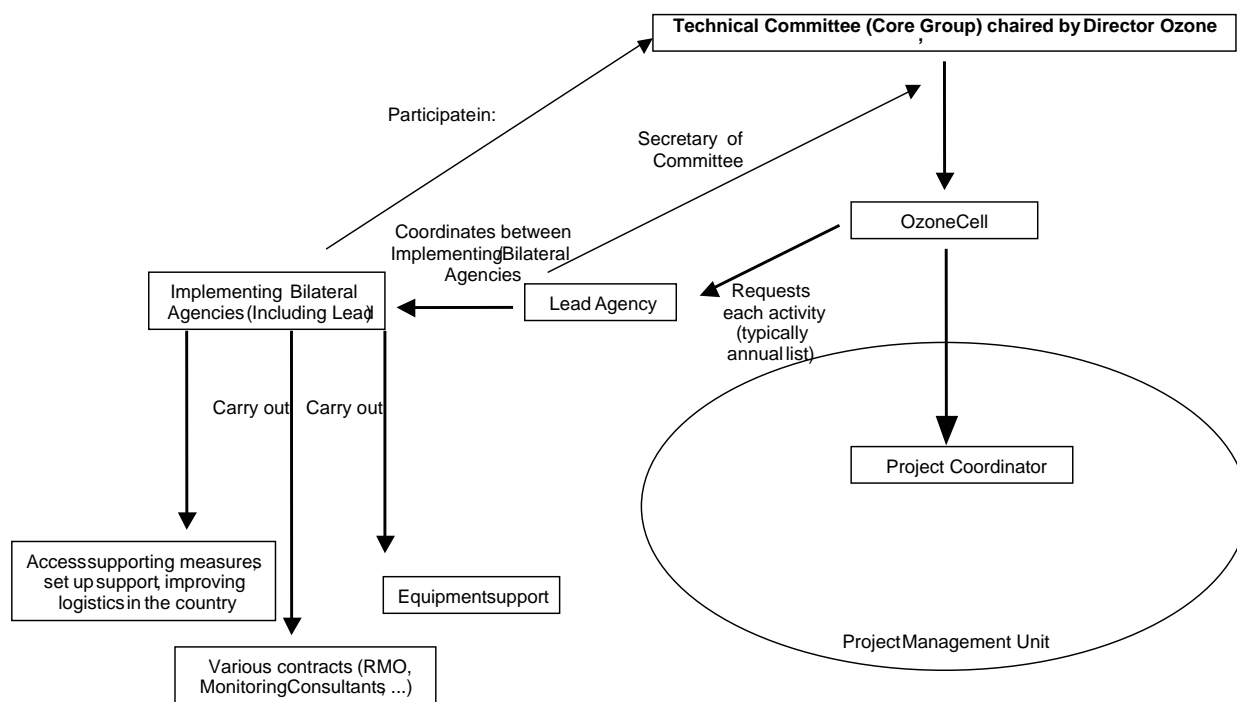
GTZ, as the lead Implementing Agency, is submitting the report on implementation activities and achievements in 2004 for consideration by the Executive Committee of the Multilateral Fund at its 44<sup>th</sup> Meeting and requests approval of the Second Phase Implementation Work Plan covering the period April 2005 – March 2006 as also contained in this report, and the release of the agreed second tranche of funding in the amount of US\$ 890’000 plus the corresponding support fees for the implementation of the Second Implementation Work Plan. The Second Phase Implementation Work Plan covering the period April 2005 – March 2006 is presented in Section 3 of this report.

With this second funding tranche, India will be able to continue enterprise level and sectoral CFC phase-out activities, conduct training activities, and undertake policy, public relations, awareness and other actions as judged necessary to maintain the reductions in CFC consumption already achieved, and to ensure that the performance targets specified in the “Agreement” related to the second tranche of funding of US\$ 890’000 are achieved.

## **ORGANISATIONAL RESPONSIBILITIES FOR IMPLEMENTATION OF NCCOPP**

The overall responsibility for the management and implementation of NCCoPP activities is with the Government of India. The Government of Germany is assigned as lead implementing agency (the “Lead IA”), the Government of Switzerland, UNDP, UNEP and UNIDO (the “Cooperating IAs”) are cooperating implementing agencies under the lead of the Lead IA in respect of the Country’s activities under this Project. The Lead IA is responsible for carrying out the activities listed in Appendix 6-A of the “Agreement” which includes inter alia policy and management support to the Project Management Unit (PMU), planning, reporting, coordination and independent verification.

The Cooperating IAs will be responsible for carrying out the activities listed in Appendix 6-B. The main responsibility of Switzerland is in the field of training, for UNEP in awareness activities while UNDP is mainly responsible for investment activities. UNIDO is jointly with UNDP responsible for all phase-out activities in the transport refrigeration sub-sector.



Several of the implementing agencies within this organisational structure have had limited time to adapt to the challenges of their new roles and responsibilities, and to contribute fully to progressing implementation the Plan. Only 6 months after approval of the project the momentum achieved in the start up of the project and progressing implementation of the NCCoPP is very high, not least because the project can bank on previous experiences in similar activities made under the Swiss bilateral project HIDECOR.

**Section 1.**  
**ACHIEVEMENTS VERSUS PERFORMANCE INDICATORS RELATED TO**  
**THE 1<sup>st</sup> PHASE IMPLEMENTATION WORK PLAN**  
**(April 2004 – March 2005)**

Until the time of reporting mainly preparatory activities have been taken up. Due to the early stage of the project at the time of reporting, it is too early to report achievements related to CFC phase-out under NCCoPP. The relevant implementing activities are scheduled to start in October as the training season when firms are available starts only when the peak summer and monsoon periods are over. In the process of identification of training cells for the North and East of India market transformations initiated through Ozone rules 2000 and market driven technology change could be observed as compared to the data reported under the ORG MARG study. This suggests that a significant portion of open type compressor based systems have been retired since 2001. Through cooperation with the HIDECOR project a number of awareness and training activities could be jointly launched, so that the targeted reduction of 60 t CFC are in the reach of the current year. Details on the implementation status of the First Phase work plan is given below under section 2.

**Section 2 A.**  
**NCCoPP REPORT ON THE**  
**FIRST PHASE IMPLEMENTATION WORK PLAN**  
**(April 2004 – March 2005)**

**1. Introduction & Time Period Involved**

A total of US\$ 6.338 million in MLF funding was approved in principle for implementation of NCCoPP. The agreed first tranche of funding was US\$ 1.3 million, and this was for the First Phase Implementation Work Plan covering the period April 2004 through March 2005.

This report covers the progress made in implementation of the first phase work plan up to 30 September 2004.

**2. First Phase Implementation Work Plan – Planned Activities & Achievements**

Taking into account the performance targets in CFC consumption that must be achieved, and in order to ensure that all conditions would be met for delivery of the funding tranche for 2005, it was critical that certain project activities be initiated in 2004. The first tranche of MLF funding of US\$ 1.3 million was therefore allocated to such individual project activities as illustrated in the following Table 1. Budget details and expenditure status by Implementing Agency can be seen from Appendix 1 to this document.

In Table 2 a brief summary on implementation status per activity already started is provided. As can be seen from there, until end of September US\$ 0.26 million or approx. 20 % of the total budget has been spent. This comparatively low share of expenditure is due to the fact that investment related activities (Equipment support Scheme) and training workshops with high direct costs and associated cash flow are scheduled to start in October 04 only.

**Table 1: Budget and Expenditure for 1<sup>st</sup> Phase Implementation Work Plan 2004, Status 30/9/2004**

Activity	Approved Budget	Expenditure as per 30. September 2004	Estimated Expenditure October 2004-March 2005
	Total	Total	Total
<b>A. General</b>			
PMU	\$15'000	\$750	\$14'250
Common database development / MIS webbased,	\$10'000	\$1'000	\$9'000
General project management, meetings, workshops and project office operation	\$40'000	\$20'000	\$20'000
Reporting, auditing, management costs	\$5'000	\$2'500	\$2'500
Travel, technical inputs annual planning	\$20'000	\$10'000	\$10'000
<b>B. Training</b>			
Institutional user retrofit preparation	\$17'500	\$10'500	\$7'000
Institutional user pilot retrofit demo programme - technical backstopping and management	\$22'000	\$0	\$22'000
Training workshops institutional user and larger commercial retrofit	\$4'800	\$0	\$4'800
Identification of RMO	\$15'000	\$15'000	
Capacity Building	\$20'000	\$8'000	\$12'000
MAC manual development (1st full draft)	\$15'000	\$9'000	\$6'000
MAC TC & preparation of training	\$6'000	\$1'800	\$4'200
MAC pilot training	\$4'554	\$0	\$4'554
Identification of training cells/partners	\$43'800		\$43'800
TOT WS	\$15'000	\$3'000	\$12'000
Handheld training	\$18'000	\$5'400	\$12'600
Technician training incl reporting	\$155'250	\$31'050	\$124'200
Professional backstopping for RMO and TC, target group assessment through key informants	\$25'000	\$10'000	\$15'000
Monitoring Training	\$14'400	\$0	\$14'400
Consolidated list of ITIs	\$12'000	\$3'600	\$8'400
Training material adaptation, printing/translation/procurement of training materials and consumables	\$18'000	\$5'400	\$12'600
<b>C. Investment</b>			
Concept note equipment support outreach incl. Equipment definition, TOR for equipment	\$20'000	\$20'000	
Training cell equipment	\$21'000	\$0	\$21'000
Technician equipment, long list facilitator	\$10'000	\$3'000	\$7'000
Technician equipment, consolidated list of RSE	\$15'750	\$4'725	\$11'025
Technician equipment	\$113'400	\$0	\$113'400
counterpart funding by technicians	-\$19'320	\$0	-\$19'320
ITI training equipment	\$204'000	\$0	\$204'000
<b>D. Awareness</b>			
Identification of national partner and agreement on annual activities	\$5'000	\$5'000	
Publication of articles in newspapers in local languages in areas where Training Cells are established	\$4'000	\$400	\$3'600
Publication of a newsletter	\$10'000	\$1'000	\$9'000
Dealer network workshops to support technician training (including workshops)	\$22'500	\$2'250	\$20'250
Initiate the Preparation of a awareness video/information kit—using lessons learned from HIDECOR and future work (includes translations into local languages)	\$20'000	\$0	\$20'000
outreach/awareness workshops on the deal offered under the equipment support scheme in 3 southern states	\$16'500	\$3'300	\$13'200
Initiate the development and launching of a website for the NCCoPP	\$10'000	\$0	\$10'000
Preparation of a user information poster	\$10'000	\$0	\$10'000
<b>E. Customs and policy</b>			
	\$140'000	\$28'000	\$112'000
<b>Contingency</b>			
	\$109'913	\$54'957	\$54'957
<b>Carry Over</b>			
	\$91'843	\$0	\$91'843
<b>Grand Total</b>	<b>\$1'300'890</b>	<b>\$259'632</b>	<b>\$1'041'258</b>



**Table 2: Activity wise Implementation Status as per 30 September 2004**

<i>Activity</i>	<i>Achievements</i>
<b>A. General</b>	
PMU	ToR for post of Head of Project Management Unit (PMU) developed and post advertised on Web.
Common database development / Management Information System webbased	Contract with local Consultant signed
General project management, meetings, workshops and project office operation	Two Meetings of Technical Committee held in April and September 2004
Travel, technical inputs annual planning	Two Meetings of Technical Committee held in April and September 2004
<b>B. Training</b>	
Institutional user retrofit preparation	Contract with local Consultant signed
Identification of RMO	Two Regional Management Organisations (RMO) for implementing training activities with refrigeration service enterprises have been identified and contract signed
MAC manual development	Contract with local Consultant signed
MAC TC identification and TOT	Training Cell (TC) has been identified
MAC pilot training	No activity started
Identification of training cells/partners	5 new training cells (TC) have been identified under NCCoPP, contracts with 11 TCs taken over from HIDECOR project have been prepared
TOT WS	Venue and date for Training of Trainers workshop has been finalised
Consolidated list of ITIs	Mandate for preparation of consolidated list of ITI training institutes to be strengthened under NCCoPP has been signed with local Consultant, work is in progress
Training material adaptation, printing/translation/procurement of training materials and consumables	Contract with local Consultant signed
<b>C. Investment</b>	
Concept note equipment support outreach incl. Equipment definition, TOR for equipment	Contract with local team of Consultants signed, draft document reviewed in 2 <sup>nd</sup> technical committee meeting
Technician equipment, long list facilitator	Contract with local Consultant signed
Technician equipment, consolidated list of RSE	Contract with local Consultant signed
ITI training equipment	Equipment specifications under preparation
R&R equipment	Equipment specifications under preparation
<b>D. Awareness</b>	
Identification of national partner and agreement on annual activities	ToR development completed, tender for selection of national partner awareness is notified
Dealer network workshops to support technician training (including workshops)	Contract with local Consultant in process
outreach/awareness workshops on the deal offered under the equipment support scheme in 3 southern states	Contract with local Consultant in process
Initiate the development and launching of a website for the NCCoPP	Contract with local Consultant signed
<b>E. Customs and policy</b>	
	National partner for Customs and Policy training identified

## **Section 2 B.**

### **REPORT ON REFRIGERATION MANUFACTURING AND FOAM SECTOR ACTIVITIES UNDER THE NATIONAL PHASE OUT PLAN**

#### **1. Refrigeration Manufacturing Sector**

For the year 2003 the phase out target in this sector was 250 ODP tonnes. The actual reported achievement, however, was 286.10 ODP tonnes through the completion of previously approved individual projects.

For the year 2004 the phase out target was 368 ODP tonnes. By the end of 2004 all previously approved individual projects will be completed with a total phase out of 60 ODP tonnes. For the first and second batches of enterprises under the Plan equipment purchase is well on its way. The total CFC consumption of the enterprises in the second batch amounts to about 304 ODP tonnes.

For the year 2005 a further CFC phase out target of 352 ODP tonnes has been set. In order to achieve this, the release of the third funding tranche of US\$ 250'000 is being requested.

The detailed Report on the Refrigeration Manufacturing Sector is attached as Appendix 3.

#### **2. Foam Sector**

For the year 2003 the phase out target in this sector was 397 MT. By December 2003 an actual phase out of 481.11 ODP tonnes was reported through the completion of 10 previously approved individual projects.

For the year 2004 the phase out target was 508 ODP tonnes. By the July 2004 all remaining previously approved individual projects were completed with a total phase out of 278 ODP tonnes. For the first batch of enterprises under the Plan equipment purchase has been completed. Installation and training is in progress. The equipment purchase orders for the second batch of enterprises under the Plan, is well under way. The total CFC consumption of these enterprises amounts to about 220 ODP tonnes.

For the year 2005 a further CFC phase out target of 401 ODP tonnes has been set. In order to achieve this, the release of the third funding tranche of US\$ 1'500'000 is being requested.

The detailed Report on the Foam Sector is attached as Appendix 4.

**Section 3.**  
**NCCoPP SECOND PHASE IMPLEMENTATION WORK PLAN –**  
**APRIL 2005 to MARCH 2006 AND FUNDING REQUEST**  
**(2005 Work Plan)**

**1. Data**

<b>Country</b>	<b>India</b>
<b>Year of plan (2ndPhase 2005)</b>	<b>April 2005 – March 2006</b>
<b>No. of years Completed at beginning of 2<sup>nd</sup> Phase</b>	<b>1 (12 months)</b>
<b>No. of years remaining under the plan at beginning of 2<sup>nd</sup> Phase</b>	<b>5</b>
<b>Target ODS consumption phase out for the year of this report (2004)</b>	<b>60 tonnes</b>
<b>Target ODS consumption phase out for the next year (2005)</b>	<b>158 tonnes</b>
<b>Level of funding requested for 2005</b>	<b>US\$ 890'000</b>
<b>Lead Implementing Agency</b>	<b>GTZ</b>
<b>Cooperating Implementing Agencies</b>	<b>Govt. of Switzerland, UNDP, UNEP, UNIDO</b>

**2. Targets**

Indicators		Previous Year (2003 official data)	Reduction previous to present year (actual)	Present year (2004 planned data)	Reductions present year to year of plan (planned)	Year of Plan (2005 planned data)
<b>Supply of ODS</b>	Production			13,176		11,294
	Export					
	<b>Total supply</b>			3,489		2,266
<b>Demand of ODS</b>	Consumption refrigeration manufacturing sector	849	302	547	66	352
	Consumption foam sector	1,536	481	1,034	508	401
	Consumption other ongoing projects					
	Stockpiling as per Agreement, Annex 2-A row 4			0		452
	<b>Sub-total:</b> Demand except consumption in remaining uses under National CFC Consumption Phase-Out Plan				749	
<b>Resulting consumption in uses under National CFC Consumption Phase-Out Plan</b>				60		158

**Table 3: Work Plan Second Phase Implementation (April 2005 – March 2006)**

## Work Plan 2005 - Funding Request

General type of activity	Description of activity	Objective	Target group	Impact (general)	Impact (in terms of ODP tonnes phase-out, if applicable)	Planned expenditures (US \$)	Agency associated
Customs and policy training	On line training testing and initial implementation	To see how the online training system developed in 2004 works, initiate its wider implementation to optimise training	Customs & enforcement officers		10	10000	UNEP / NACEN
	Organise train-the-trainers (TOT training for Target Group A)	Provide training to officers at the grass roots levels to ensure effective implementation of policies and regulations.	Target groups like customs & enforcement officers and other policy stakeholders as identified			60000	
	Final implementation of on-line training	To optimise number of trainees who receive quality training within available funding	Customs & enforcement officers and other potential online training users			26245	UNEP / NACEN
<i>Subtotal Customs and policy training</i>						\$96,245	
Awareness	Continue the publication of articles in newspapers in local languages in areas where Training Cells are established	To disseminate information about the sector strategy, and encourage technicians for training	Refrigeration Technicians and local stakeholders		10	10000	UNEP, Gov. of India
	Continue newsletter	Ensure review of	Refrigeration			20000	National
	Review the impact of the equipment support workshops vis-à-vis ES Scheme and see how further support can be provided	To support the training and equipment scheme, and certificate promotion	Supply Chain			15000	National partner, ITPI, UNEP
	Dissemination of the awareness video / info kit - and initiate translation into at least 3 languages	To record and disseminate achievements made in training and lessons learnt	Refrigeration Technicians and local stakeholders			20000	National partner, ITPI, UNEP
	Three General outreach workshops about the service sector strategy focusing on the initial results of the NCCoPP and disseminating these widely to decision-makers in government to support policy	Widely disseminate information on the sector strategy	Local public at the sub-regional level			30000	National partner/Gov. of India and cooperating agencies
	Continue to input into website developed in collab. with Germany, and ensure contents are what stakeholders really need within the NCCoPP.	To provide web-based information about materials available, and other achievements and status of the project	Refrigeration Technicians and local stakeholders and RACSSS agencies			5000	UNEP/ Germany
	Dissemination of a user information poster and translation into local dialects	To allow users/clients to see through a poster what needs to be done after training to promote good practice	Refrigeration Technicians and local stakeholders			10000	National partner, ITPI, UNEP
	Continue the ESS workshops in new training cells in 2005	To support the training and equipment scheme, and certificate promotion	Refrigeration Technicians and local stakeholders			50000	UNEP
	<i>Subtotal Awareness</i>						\$160,000

General type of activity	Description of activity	Objective	Target group	Impact (general)	Impact (in terms of ODP tonnes phase-out, if applicable)	Planned expenditures (US \$)	Agency associated
Establishing / upgrading training institutions (including equipment)	Establish and equip 1 Training Cell for MAC and upgrade 2 Training Cells taken over from HIDECOR for NCCoPP, Maintain already established 13 Training Cells	Provide appropriate institutional capacity for GP/retrofit training on national scale	Training institutions	enabling activity for training	no direct ODP impact	\$41,580	Switzerland, GTZ
Training	Training Workshops for number of participants: 1166 (standard service) / 44 (MAC)	Good Practice in handling CFCs	Technicians in RAC service enterprises	application of good practices, Impact study shows acceptance of Nitrogen flushing &	21	\$267,878	Switzerland, GTZ
Equipment supply	Supply of 200 Nos Evacuation and charging stations and tools to service enterprises and 26 Nos to ITIs	Enabling the Enterprises in applying Good Practice with CFCs	Service Enterprises and ITI Training Institutes with RAC trade	Good practices 30% reduction in consumption	6	\$308,697	UNDP, GTZ
Retrofit	Training workshops for retrofit of large Commercial Appliances and Railway Coaches: 64 Participants	Retrofit of large commercial systems and institutional user units such as Railway coaches	Institutional Users service workshops and owners of large commercial systems	Retrofitting of systems to non-CFC refrigerants	8	\$15,600	Switzerland
Other	Retirement of old equipment, effect of CFC cost increase, HC refrigerant supply chain, training/awareness impact HIDECOR			various: retirement, retrofit with Hydrocarbons, good practice by past level of	103	\$0	n/a
<b>Total</b>					158	\$890,000	
<b>Cost by agency</b>							
<b>Agency</b>	<b>Type of cost</b>						
Germany – GTZ Proklima	Expenditure					\$100,000	
	Support cost					\$13,000	
Switzerland	Expenditure					\$256,650	
	Support cost					\$33,365	
UNDP	Expenditure					\$277,050	
	Support cost					\$20,779	
UNEP	Expenditure					\$256,300	
	Support cost					\$33,319	
UNIDO	Expenditure					\$0	

Details on the Work Plan for the Second Phase Implementation (April 2005-March 2006) including Output targets per activity and budget per Implementing Agency can be seen from Appendix 2 to this document.

## Appendix 1: NCCoPP Budget details and expenditure status by Implementing Agency (September 2004)

Activity	Approved Budget					Status of Completion as per Sept. 04				Expenditure as per 30. September 2004					Estimated Expenditure October 2004-March 2005	
	Total	Germany	Switzerland	UNDP	UNEP	Com	Sub	UC	UNE	Germany	Switzerland	UNDP	UNEP	Total	Total	
<b>A. General</b>																
FMU	\$15'000	\$15'000				100%				\$15'000					\$15'000	
Common database development / MIS webbased,	\$10'000	\$10'000				30%				\$3'000					\$7'000	
General project management, meetings, workshops and project office operation	\$40'000	\$40'000				50%				\$20'000					\$20'000	
Reporting, auditing, management costs	\$5'000	\$5'000				50%				\$2'500					\$2'500	
Travel, technical inputs annual planning	\$20'000	\$5'000	\$5'000	\$5'000	\$5'000	50%	50%	50%	50%	\$2'500	\$2'500	\$2'500	\$2'500		\$10'000	
<b>B. Training</b>																
Institutional user retrofit preparation	\$17'500	\$8'750	\$8'750			60%	60%			\$5'250	\$5'250				\$10'500	
Institutional user pilot retrofit demo programme - technical backstopping and management	\$22'000	\$12'100	\$9'900			0%	0%			\$0	\$0				\$22'000	
Training workshops institutional user and larger commercial retrofit	\$4'800		\$4'800				0%			\$0	\$0				\$4'800	
Identification of RMO	\$15'000	\$4'500	\$10'500			100%	100%			\$4'500	\$10'500				\$15'000	
Capacity Building	\$20'000		\$20'000				40%			\$8'000	\$8'000				\$12'000	
MAC manual development (1st full draft)	\$15'000		\$15'000				60%			\$9'000	\$9'000				\$6'000	
MAC TC & preparation of training	\$6'000		\$6'000				30%			\$1'800	\$1'800				\$4'200	
MAC pilot training	\$4'554		\$4'554				0%			\$0	\$0				\$4'554	
Identification of training cells/partners	\$43'800		\$43'800												\$43'800	
TOT WS	\$15'000		\$15'000				60%			\$9'000	\$9'000				\$6'000	
Handheld training	\$18'000		\$18'000				30%			\$5'400	\$5'400				\$12'600	
Technician training incl reporting	\$155'250	\$69'086	\$86'164			20%	20%			\$13'817	\$17'233				\$31'050	
Professional backstopping for RMO and TC, target group assessment through key informants	\$25'000		\$25'000				40%			\$10'000	\$10'000				\$15'000	
Monitoring Training	\$14'400		\$14'400				0%			\$0	\$0				\$14'400	
Consolidated list of ITIs	\$12'000	\$12'000				30%				\$3'600	\$3'600				\$8'400	
Training material adaptation, printing/translation/procurement of training materials and consumables	\$18'000		\$18'000				30%			\$5'400	\$5'400				\$12'600	
<b>C. Investment</b>																
Concept note equipment support outreach incl. Equipment definition, TOR for equipment	\$20'000	\$4'000	\$16'000			100%	100%			\$4'000	\$16'000				\$20'000	
Training cell equipment	\$21'000	\$21'000					0%			\$0	\$0				\$21'000	
Technician equipment, long list facilitator	\$10'000	\$10'000				30%				\$3'000	\$3'000				\$7'000	
Technician equipment, consolidated list of RSE	\$15'750	\$15'750				30%				\$4'725	\$4'725				\$11'025	
Technician equipment counterpart funding by technicians	\$113'400			\$113'400			0%			\$0	\$0				\$113'400	
ITI training equipment	\$20'400	\$51'000		\$153'000			0%			\$0	\$0				\$20'400	
<b>D. Awareness</b>																
Identification of national partner and agreement on annual activities	\$5'000				\$5'000								\$5'000		\$5'000	
Publication of articles in newspapers in local languages in areas where Training Cells are established	\$4'000				\$4'000								\$800		\$3'200	
Publication of a newsletter	\$10'000				\$10'000								\$2'000		\$8'000	
Dealer network workshops to support technician training (including workshops)	\$22'500				\$22'500								\$4'500		\$18'000	
Initiate the Preparation of a awareness video/information kit—using lessons learned from HIDECOR and future work (includes translations into local languages)	\$20'000				\$20'000								\$0		\$20'000	
outreach/awareness workshops on the deal offered under the equipment support scheme in 3 southern states	\$16'500				\$16'500								\$4'950		\$11'550	
Initiate the development and launching of a website for the NCCoPP	\$10'000	\$10'000				0%				\$0	\$0				\$10'000	
Preparation of a user information poster	\$10'000				\$10'000								\$0		\$10'000	
<b>E. Customs and policy</b>	\$140'000				\$140'000								\$42'000		\$98'000	
<b>Contingency</b>	\$109'913	\$29'319	\$32'087	\$25'208	\$23'300	50%	50%	50%	50%	\$14'659	\$16'043	\$12'604	\$11'650		\$54'957	
<b>Carry Over</b>	\$91'843	\$91'865	\$66	-\$88	\$0	0%	0%	0%	0%	\$0	\$0	\$0	\$0		\$91'843	
<b>Grand Total</b>	<b>\$1'300'890</b>	<b>\$414'370</b>	<b>\$353'020</b>	<b>\$277'200</b>	<b>\$256'300</b>	<b>23%</b>	<b>33%</b>	<b>5%</b>	<b>29%</b>	<b>\$96'552</b>	<b>\$116'126</b>	<b>\$15'104</b>	<b>\$73'400</b>	<b>\$301'182</b>	<b>\$999'708</b>	

## Appendix 2: NCCoPP Work Plan for 2<sup>nd</sup> Phase (2005) and IA-Budgets

	Output Target 2005 Work Plan	Total Budget	Germany	Swiss	UNDP	UNEP
Support cost		\$100'463	\$13'000	\$33'365	\$20'779	\$33'319
Transfer from previous year		\$91'843	\$91'865	\$66	-\$88	\$0
<b>Additional Budget requested from MLF for Work Plan 2005</b>		<b>\$890'000</b>	<b>\$100'000</b>	<b>\$256'650</b>	<b>\$277'050</b>	<b>\$256'300</b>
Available Budget		\$981'843	\$191'865	\$256'716	\$276'962	\$256'300
Used Budget		\$967'364	\$178'692	\$256'574	\$275'852	\$256'245
Difference / Funds available for next years budget		\$14'479	\$13'173	\$141	\$1'110	\$55
<b>A. General</b>						
PMU	1	\$30'000	\$30'000			
Common database operation / MIS webbased, updated version	1	\$5'000	\$5'000			
General project management, meetings, workshops and project office operation	1	\$30'000	\$30'000			
Reporting, auditing, management costs	1	\$5'000	\$5'000			
Travel, technical inputs annual planning	1	\$20'000	\$5'000	\$5'000	\$5'000	\$5'000
<b>B. Training</b>						
Institutional user pilot retrofit demo programme - technical backstopping and management	1	\$6'000	\$1'200	\$4'800		
Training workshops institutional user and larger commercial retrofit	64	\$9'600	\$3'840	\$5'760		
Identification of consultants/contractors	1	\$7'500		\$5'625	\$1'875	
Capacity Building	1	\$14'000		\$14'000		
MAC manual development (full version)	1	\$4'000		\$4'000		
MAC manual update and TOT material preparation	1	\$3'000		\$3'000		
MAC TC & preparation of training	1	\$3'000		\$3'000		
MAC pilot training	44	\$4'752		\$4'752		
Identification of training cells/partners	2	\$14'800		\$14'800		
TOT WS	1	\$10'000		\$10'000		
Handheld training	4	\$6'000		\$6'000		
Technician training incl reporting	1166	\$125'928	\$21'408	\$104'520		
Professional backstopping for RMO and TC, target group assessment through key informants	1	\$18'000		\$18'000		
Monitoring Training	10	\$12'500		\$12'500		
Consolidated list of ITIs	26	\$5'200			\$5'200	
ITI Instructor Training preparation and management	1	\$10'560	\$10'560			
ITI Instructor training	180	\$19'440	\$19'440			
Training material adaptation, printing/translation/procurement of training materials and consumables	1166	\$13'992		\$13'992		
<b>C. Investment</b>						
Training cell equipment	2	\$7'000		\$3'500	\$3'500	
Technician equipment, long list facilitator	1	\$6'000	\$6'000			
Technician equipment, consolidated list of RSE	200	\$20'000	\$20'000			
Technician equipment counterpart funding by technicians	200	-\$56'000			\$208'000	
ITI training equipment	26	\$83'200			\$83'200	
<b>D. Awareness</b>						
Identification of national partner and agreement on annual activities	1	\$950				\$950
Publication of articles in newspapers in local languages in areas where Training Cells are established	1	\$4'000				\$4'000
Publication of a newsletter	1	\$10'000				\$10'000
Dealer network workshops to support technician training (including workshops)	5	\$15'000				\$15'000
Follow on and reach out of a awareness video/information kit—using lessons learned from HIDECOR and future work (includes translations into local languages)	1	\$18'000				\$18'000
outreach/awareness workshops on the deal offered under the equipment support scheme in 3 southern states	6	\$30'000				\$30'000
Communication through a website for the NCCoPP	1	\$5'000	\$5'000			
Preparation of a user information poster	1	\$10'000				\$10'000
<b>E. Customs and policy</b>						
	1	\$140'000				\$140'000
<b>Contingency (automatically 10 % of budget)</b>		<b>\$87'942</b>	<b>\$16'245</b>	<b>\$23'325</b>	<b>\$25'077</b>	<b>\$23'295</b>

**NCCoPP Report 2004 - Appendix 3**

*PLAN FOR PHASE-OUT OF CFCs IN THE REFRIGERATION  
MANUFACTURING SECTOR IN INDIA*

*REPORT ON 2003 IMPLEMENTATION,  
2005 ANNUAL IMPLEMENTATION PROGRAMME AND  
REQUEST FOR THE RELEASE OF THE THIRD (2004) FUNDING TRANCHE*

**Prepared By**

**SECTOR PHASE-OUT PLAN UNIT (SPPU),  
OZONE CELL/MOEF  
AND  
UNDP**



**PLAN FOR PHASE-OUT OF CFCs IN THE REFRIGERATION MANUFACTURING SECTOR IN INDIA**

**Report on 2003 Implementation, 2005 Annual Implementation Programme and  
Request for Release of Third (2004) Funding Tranche**

**1. Background**

The Plan for Phase-out of CFCs in the Refrigeration Manufacturing Sector in India was approved at the 38<sup>th</sup> Meeting of the Executive Committee of MLF, at a total funding level of US\$ 3,609,186, to be provided in five tranches, leading up to the complete phase-out of CFCs in the Refrigeration Manufacturing Sector in India by 01 January 2007. The Plan is to be implemented by two agencies. The portion of the Plan to be implemented by UNIDO covers the phase-out in the transport refrigeration sub-sector and the component of the plan to be implemented by UNDP, as the lead Implementing Agency, covers all other sub-sectors within the Refrigeration Manufacturing Sector excluding the transport refrigeration sub-sector. The Phase-out Plan will cover the technology conversions in all the remaining eligible enterprises in the Refrigeration Manufacturing Sector (excluding the MAC Sector) through a combination of investment, technical support and management components. The breakdown of the approved overall funding was as below:

Investment Component (including contingencies):	US\$ 2,675,986 (UNDP portion)
Investment Component (including contingencies):	US\$ 673,200 (UNIDO portion)
Policy/Management Component:	US\$ 260,000
<b>Total:</b>	<b>US\$ 3,609,186</b>

The disbursement schedule and annual CFC consumption and phase-out control targets, in accordance with the agreement between Government of India and the Executive Committee of the Multilateral Fund (Document UNEP/OzL.Pro/ExCom/38/70, Annex-X) were as below:

Parameter	2002	2003	2004	2005	2006	2007	Total
Annual CFC Consumption limit in the Refrigeration Manufacturing Sector (ODP tonnes)	1,373	1,173	923	555	203	0	N/A
A. Phase-out from approved ongoing projects (ODP tonnes)	200	250	187	172	0	0	809
B. Phase-out from current Plan excluding ineligible enterprises (UNDP)	0	0	140	108	180	0	428
C. Phase-out from current Plan excluding ineligible enterprises (UNIDO)	0	0	40	67	0	0	107
D. Phase-out from ineligible enterprises (through legislative measures)	0	0	1	5	23	0	29
<b>Total Annual CFC phase-out target in the Refrigeration Manufacturing Sector (ODP Tonnes)</b>	<b>200</b>	<b>250</b>	<b>368</b>	<b>352</b>	<b>203</b>	<b>0</b>	<b>1,373</b>
Annual funding installment (US\$)	UNIDO	500,000	173,200	0	0	0	673,200
	UNDP	2,000,000	476,536	250,000	150,000	59,450	2,935,986
	<b>Total</b>	<b>2,500,000</b>	<b>649,736</b>	<b>250,000</b>	<b>150,000</b>	<b>59,450</b>	<b>3,609,186</b>
Agency support costs (US\$)	UNIDO	65,000	19,052	0	0	0	84,052
	UNDP	172,971	43,243	21,621	12,973	5,142	255,950
	<b>Total</b>	<b>237,971</b>	<b>62,295</b>	<b>21,621</b>	<b>12,973</b>	<b>5,142</b>	<b>340,002</b>
Total cost to Multilateral Fund (US\$)	2,737,971	712,031	271,621	162,973	64,592	0	3,949,188

In accordance with the Agreement reached between India and the Executive Committee of the Multilateral Fund in April 2004, the Refrigeration Manufacturing Sector Plan has now been merged into the National CFC Phase-out Plan (Document UNEP/OzL.Pro/ExCom/42/54 Annex-XIII).

## 2. Preparatory Activities

- The first tranche of US\$ 2,000,000 was received by UNDP in January 2003.
- It was agreed by UNDP and MOEF in February 2003, that the project would be implemented through the DEX (Direct Execution) modality.
- UNDP and MOEF agreed that the Operational Mechanism for Implementation (OMI), which delineated the roles and responsibilities of the various stakeholders and was earlier designed for implementing the IND/02/G68 – Sector Phase-out Plan for Elimination of CFCs in the Foam Sector in India would be also followed for implementation of the IND/03/G62 – Plan for Phase-out of CFCs in the Refrigeration Manufacturing Sector in India
- The UNDP first-phase project document covering the first tranche of US\$ 2,000,000 was prepared and submitted to MOEF in March 2003. The first phase project document was signed by Government in April 2003. UNDP obtained internal approval for implementation through DEX (Direct Execution) modality in May 2003. The UNDP first-phase project document was fully signed for all parties in May 2003.
- The second tranche of US\$ 476,536 was released in December 2003.

## 3. Investment Component

### 3.1 Enterprise Participation

#### *UNDP Component*

- The original funding proposal for this project was for about US\$ 6.9 million (for the UNDP portion). The actual funding for the UNDP portion was approved at US\$ 2,935,986. Due to the substantial reduction in funding level, it would not be possible to provide all the eligible participant enterprises with the level of assistance earlier envisaged. It was therefore agreed that about 10 medium-sized enterprises with a significant foaming baseline be provided with assistance for both foam and refrigerant equipment. Up to 125 SMEs would be provided with refrigerant equipment only. This approach would provide most remaining enterprises with assistance, while ensuring that the costs of equipment, trials and training could be met within the allocated budget.
- The first list of 10 medium-sized enterprises and 103 SMEs was provisionally endorsed by MOEF in September 2003 for participation. Upon completion of all activities in these enterprises targeted in 2004 and 2005), the CFC phase-out that would be achieved, would contribute about 300 ODP tonnes to the 2004 and 2005 annual CFC phase-out targets (amounting to a total of 359 ODP tonnes for these two years through the Plan).
- The baseline information at the participating enterprises has been progressively verified by the Sector Phase-out Plan Unit (SPPU).

*UNIDO Component*

- The mechanism of enterprise participation in the transport refrigeration sub-sector (UNIDO component of the Plan) was finalized between UNIDO and MOEF.

3.2 Procurement

*UNDP Component*

- UNDP announced the invitations for Expressions of Interest for prospective suppliers of the equipment to be procured under this project in May 2003. The invitations for Expressions of Interest were posted in the websites of UN Development Business, UNDP's Inter-Agency Procurement Services Office (IAPSO) and UNDP-Delhi for one month. The responses received were evaluated in October 2003 and a short list of vendors for the international competitive bidding exercise for procuring the refrigerant equipment was finalized based on the roster of existing suppliers and based on the evaluation of responses to the Expressions of Interest.
- UNDP prepared the technical specifications for the refrigerant equipment to be procured for the first batch enterprises in October 2003.
- The international bidding exercise for equipment was carried out during November and December 2003. The purchase orders for equipment were released in early 2004.

*UNIDO Component*

- The preparation for procurement activities at selected enterprises was carried out by end 2003.

**4. Non-Investment (Policy and Management Support) Component (implemented by UNDP)**

4.1 Sector Phase-out Plan Unit (SPPU)

The National Programme Manager recruited for the SPPU, to support the implementation of the Foam Sector Phase-out Plan, has also been assigned the task of supporting the implementation activities of the Refrigeration Manufacturing Sector Phase-out Plan, with the fully operational SPPU.

4.2 Enterprise Participation

- The operational mechanism for enterprise participation in the Sector Phase-out Plan was finalized by MOEF in consultation with UNDP.
- The verification of baseline at the first batch of participating enterprises was carried out during 2003. This included plant visits by MOEF/SPPU and collection of participation documentation and commitments from the enterprises in line with MOEF regulations.

- The verification of enterprises in future batches of participation/procurement would be an ongoing exercise.

#### 4.3 Other Policy, Regulatory and Awareness Actions

MOEF continued the implementation and enforcement of the Government of India Ozone Rules, promulgated in January 2000. During the Ozone Day workshops held in 2003, information on the Sector Phase-out Plan was disseminated to Government policy makers and stakeholders. The empowered Steering Committee is fully briefed and aware of the commitments and obligations arising out of the agreement between Government of India and the Executive Committee of MLF, governing the approval of the Sector Phase-out Plan.

### 5. CFC Phase-out and Results

The annual CFC phase-out target for 2003 was 250 ODP tonnes; to be achieved through the completion of previously approved individual projects. By December 2003, **a total phase-out of 286.10 ODP tonnes was achieved** through the completion of previously approved individual projects, thus exceeding the 2003 annual CFC phase-out target.

#### 6. Brief report on activities in 2004

Until September 2004, activities at the three of the four remaining previously approved individual projects were completed. By end 2004, all remaining previously approved individual projects would be completed, leading to a CFC phase-out of about 60 ODP tonnes.

The equipment procured for the first batch of enterprises under the Plan is now in the process of being delivered and distributed to the respective recipients. Activities at many of these enterprises are targeted for completion by November 2004. Together with the CFC phase-out achieved through the completion of all previously approved individual projects, this would facilitate achieving the 2004 phase-out target of 368 ODP tonnes.

The second batch of participating enterprises in the Plan was endorsed by MOEF to UNDP in April 2004. The equipment procurement exercise for the second batch of enterprises was completed during June 2004 and the purchase orders for the equipment for second batch of enterprises were issued in August 2004. The cumulative CFC consumption of these enterprises amounted to about 304 ODP tonnes, which would be phased out upon completion of all activities at these enterprises, which is expected by early 2005, thus contributing to the 2004 and 2005 phase-out targets.

The verification of baselines for the current and subsequent batches of participating enterprises was carried out on an ongoing basis by SPPU.

## 7. Annual Implementation Programme for CY 2005 and Funding

The 2005 annual implementation programme is attached in Annex-2, with a request for release of the third (2004) funding tranche for the Refrigeration Manufacturing Sector, as below:

<b>Sector</b>	<b>Agency</b>	<b>Tranche Amount (US\$)</b>	<b>Agency Fees (US\$)</b>	<b>Total (US\$)</b>
Foam	UNDP	250,000	21,621	271,621
<b>Total</b>		<b>250,000</b>	<b>21,621</b>	<b>271,621</b>

**INDIA – REFRIGERATION MANUFACTURING SECTOR PHASE-OUT PLAN**  
**Projects in the Refrigeration Manufacturing Sector completed during 2003**

MLF Project Number	3. <u>Project Name</u>	Agency	Approved Grant (US\$)	ODS (MT/y)			ODP (MT/y)	Remark
				CFC-11	CFC-12	Total		
IND/REF/19/INV/91	Shakti Fabricators	IBRD	510,000	9.00	4.50	13.50	12.81	Completed
IND/REF/19/INV/92	Chandra Frig Co	IBRD	159,230	6.90	3.00	9.90	9.40	Canceled
IND/REF/32/INV/282	Sandlas Aircon	UNDP	228,517	18.20	6.45	24.65	23.31	Completed
IND/REF/32/INV/286	Group project: 9 enterprises	UNDP	789,425	43.36	13.34	56.70	53.52	Completed
IND/REF/34/INV/323	Group project: 5 enterprises	UNDP	323,627	17.76	5.50	23.26	21.96	Completed
IND/REF/35/INV/339	Group project: 14 enterprises	UNDP	960,097	53.56	18.37	71.93	68.01	Completed
IND/REF/35/INV/340	Ice-Make Refrigeration	UNDP	157,305	9.65	3.40	13.05	12.37	Completed
IND/REF/35/INV/341	Konark Refrigeration	UNDP	182,684	9.41	4.35	13.76	13.07	Completed
IND/REF/35/INV/342	Group project: 9 enterprises	UNDP	726,448	44.10	15.25	59.35	56.54	Completed
<b>Total</b>			<b>4,037,333</b>	<b>211.94</b>	<b>74.16</b>	<b>286.10</b>		

**Notes:**

All enterprises achieved all project objectives and met all project obligations, such as phase-out of CFCs, phase-in of CFC-free production, depletion of CFC stocks, destruction of redundant and replaced baseline equipment, etc. Handover Protocols (HOPs) for the respective projects were issued and signed by all parties in 2003.

**INDIA - REFRIGERATION MANUFACTURING SECTOR PLAN**  
**2005 Annual Implementation Program**

**1. Data**

Country	India
Year of plan	2005
Number of years completed	2
Number of years remaining under the plan	2 (2005 and 2006)
Target ODS consumption in previous year (CY 2004)	547
Target ODS consumption in the next year (CY 2006)	129
Level of funding requested (US\$)	250,000
Lead implementing agency	UNDP
Co-operating agency (ies)	UNIDO

**2. Targets**

Indicators		Previous Year Data (official as reported in 2003)	Reduction previous year 2003 (actual)	Present year Data 2004 (planned)	Reductions present year 2004 (calculated)	Reductions year of plan 2005 (planned)
Supply of ODS in Sector (ODP MT)	Import					
	Production					
	<b>Total (1)</b>					
Demand of ODS in Sector (ODP MT)	Manufacturing	849	302	547	66	352
	Servicing	N/A	N/A	N/A	N/A	N/A
	Stock piling	N/A	N/A	N/A	N/A	N/A
	<b>Total (2)</b>	<b>849</b>	<b>302</b>	<b>547</b>	<b>66</b>	<b>352</b>

**3. Activities and Costs**

Type of Activity	Description of Activity	Objective	Target Group	Impact (General)	Impact (ODP MT)	Planned Expenditures (US\$)	Agency Associated
<b>Customs &amp; Policy Training</b>							
<b>Awareness Training</b>							
<b>Equipment</b>	Replacement of baseline CFC-based equipment	Introduction of equipment suited for non-CFC technology	40-50 enterprises engaged in commercial refrigeration	Technology conversion & elimination of CFCs	285	250,000	UNDP
	Replacement of baseline CFC-based equipment	Introduction of equipment suited for non-CFC technology	Remaining enterprises engaged in transport refrigeration	Technology conversion & elimination of CFCs	67	0	UNIDO
<b>Retrofit</b>							
<b>Total</b>					<b>352</b>	<b>250,000</b>	
<b>Support Cost by Agency</b>							
<b>UNDP</b>						21,621	
<b>UNIDO</b>						0	

**NCCoPP Report 2004 - Appendix 4**

**INDIA**  
*FOAM SECTOR PHASE-OUT PLAN*

*REPORT ON 2003 IMPLEMENTATION,*  
**2005 ANNUAL IMPLEMENTATION PROGRAMME**  
**AND REQUEST FOR RELEASE OF THIRD FUNDING TRANCHE**

**Prepared By**  
**SECTOR PHASE-OUT PLAN UNIT (SPPU),**  
***OZONE CELL/MOEF***  
**AND**  
**UNDP**



**INDIA- FOAM SECTOR PHASE-OUT PLAN**

**Report on 2003 Implementation, 2005 Annual Implementation Programme and Request for release of the third (2004) funding tranche**

**1. Background**

The project was approved at the 37<sup>th</sup> Meeting of the Executive Committee of MLF, at a total funding level of US\$ 5,424,577, to be provided in five tranches, leading up to the complete phase-out of CFCs in the Foam Sector in India by 01 January 2007.

The Phase-out Plan will be implemented through five annual implementation programmes and together with the implementation of the approved ongoing projects, will result in the complete phase-out of CFCs in the Foam Sector in India in four years. The Phase-out Plan will cover the technology conversions in all the remaining eligible enterprises in the Foam Sector and also ensure timely, sustainable and cost-effective phase-out in the Foam Sector through a combination of investment, technical support and management components.

The breakdown of the approved overall funding was as below:

Investment Component:	US\$ 5,124,577 (including contingencies)
Policy/Management Component:	US\$ 300,000
<b>Total:</b>	<b>US\$ 5,424,577</b>

The disbursement schedule and annual CFC consumption and phase-out control targets, in accordance with the Agreement between Government of India and the Executive Committee of the Multilateral Fund (Document UNEP/OzL.Pro/ExCom/37/71, Annex-VII) were as below:

<b>Parameter</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>Total</b>
Annual CFC Consumption limit in the Foam Sector (ODP tonnes)	1,655	1,434	1,037	529	128	0	N/A
Annual CFC phase-out target in the Foam Sector (ODP tonnes)	221	397	508	401	128	0	1,655
Phase-out from approved ongoing projects (ODP tonnes)	221	397	298	100	0		1,016
Phase-out from Sector Phase-out Plan (ODP tonnes)	0	0	210	301	128		639
<b>Annual Funding Instalment* (US\$)</b>	<b>1,500,000</b>	<b>1,750,000</b>	<b>1,500,000</b>	<b>450,000</b>	<b>224,577</b>	<b>0</b>	<b>5,424,577</b>
Agency Support Costs (US\$)	131,000	153,500	131,000	40,500	20,212	0	476,212
<b>Total cost to Multilateral Fund (US\$)</b>	<b>1,631,000</b>	<b>1,903,500</b>	<b>1,631,000</b>	<b>490,500</b>	<b>244,789</b>	<b>0</b>	<b>5,900,789</b>

In accordance with the Agreement reached between India and the Executive Committee of the Multilateral Fund in April 2004, the Foam Sector Plan has now been superseded into the National CFC Phase-out Plan (Document UNEP/OzL.Pro/ExCom/42/54 Annex-XIII).

## 2. Preparatory Activities

- The first tranche of US\$ 1,500,000 was received by UNDP in August 2002. The second funding tranche of US\$ 1,750,000 was released in November 2003 for the 2004 annual programme.
- It was agreed by UNDP and MOEF that the project would be implemented through the DEX (Direct Execution) modality.
- UNDP and MOEF agreed on the Operational Mechanism for Implementation (OMI), which delineated the roles and responsibilities of the various stakeholders, in February 2003.
- The UNDP first-phase project document covering the first tranche of US\$ 1,500,000 was prepared and submitted to MOEF in March 2003.
- The first phase project document was signed by Government in March/April 2003
- UNDP obtained internal approval for implementation through DEX (Direct Execution) modality in May 2003.
- The UNDP first-phase project document was fully signed by all parties in May 2003.

## 3. Investment Component

### 3.1 Enterprise Participation

- The first list of 28 participating enterprises was provisionally endorsed by MOEF in April/May 2003. Upon completion of all activities in these enterprises targeted in 2004, the CFC phase-out that would be achieved, would contribute 279.20 MT to the 2004 annual CFC phase-out target.
- Upon verification of the enterprise baselines by MOEF, the final endorsement of the 28 enterprises for participation in the first batch for implementation, was provided by MOEF to UNDP in August 2003
- The 28 enterprises were divided into three groups, based on the type of foam equipment needed for their conversion, which in turn was dictated by the respective foam type/foam sub-sector involved. Thus, out of the 28 enterprises, the first group of 5 enterprises was engaged in production of rigid foam (general), 12 enterprises were engaged in the production of rigid foam (thermoware) and 11 enterprises were engaged in the production of flexible molded/integral skin foam.

### 3.2 Procurement

- UNDP announced the invitations for Expressions of Interest for prospective suppliers of the equipment to be procured under this project in March 2003. The invitations for Expressions of Interest were posted in the websites of UN Development Business, IAPSO and UNDP-Delhi for one month.

- UNDP prepared the technical specifications for the foaming equipment to be procured for the first batch of 28 enterprises, in May 2003. UNDP also finalized the short list of vendors for the international competitive bidding exercise, based on the roster of existing suppliers and based on the evaluation of responses to the Expressions of Interest.
- The Invitations to Bid (ITB) for the equipment to be procured for the first batch of 28 enterprises, based on the above, were issued by UNDP in May 2003. Three different invitations to bid, covering the three types of foam equipment required were issued to a total of 6-8 vendors for each type of equipment.
- The bids received were evaluated end-June 2003. The local procurement committee approved the bid evaluation, recommendations and the bidding process in July 2003. UNDP-HQ procurement committee approved the same in July 2003.
- The results of the bidding process were shared with the 28 participant enterprises in July 2003. Some of the participant enterprise elected to opt for bidder(s) other than the recommended bidder(s). In accordance with UNDP procurement rules and procedures, the enterprises were entitled to select bidder(s) other than the recommended (lowest technically acceptable) bidder(s) provided they provided technically justified reasons and agreed to bear the additional costs.
- The process of finalization of the vendors was completed in November 2003. Issuance of purchase orders to vendors for the equipment to be procured for the first batch of enterprises was completed by in November/December 2003.

#### **4. Non-Investment (Policy and Management Support) Component**

##### **4.1 Sector Phase-out Plan Unit (SPPU)**

- The procedures for acquiring dedicated premises for the Sector Phase-out Plan Unit were completed and the premises assigned in April 2003.
- The position for the National Programme Manager of the Sector Phase-out Plan Unit was advertised locally by UNDP in April 2003.
- The recruitment process and appointment of the National Programme Manager of the Sector Phase-out Plan Unit was completed by UNDP with concurrence from Ozone Cell/MOEF in June 2003 and the selected candidate resumed duties from June 2003.
- The logistics and infrastructural arrangements, such as furniture, office equipment, communication, etc. for the functioning of SPPU were completed and SPPU is fully functional.
- The recruitment process for two support staff for the SPPU (one administrative assistant and one technical assistant) was completed in November 2003 and May 2004 respectively.

#### 4.2 Enterprise Participation

- The operational mechanism for enterprise participation in the Sector Phase-out Plan was finalized by MOEF in consultation with UNDP.
- The verification of baseline at the first batch of 28 enterprises was concluded in August 2003. This included plant visits by MOEF/SPPU and collection of participation documentation and commitments from the enterprises in line with MOEF regulations.
- The verification of enterprises in future batches of participation/procurement has been initiated and would be an ongoing exercise.

#### 4.3 Other Policy, Regulatory and Awareness Actions

MOEF continued the implementation and enforcement of the Government of India Ozone Rules, promulgated in January 2000. During the Ozone Day workshops held in 2002 and 2003, information on the Sector Phase-out Plan was disseminated to Government policy makers and stakeholders. The empowered Steering Committee is fully briefed and aware of the commitments and obligations arising out of the agreement between Government of India and the Executive Committee of MLF, governing the approval of the Sector Phase-out Plan.

### 5. CFC Phase-out and Results

The annual CFC phase-out target for 2003 was 397 MT; to be achieved through the completion of previously approved individual projects. By December 2003, a phase-out of **481.11 ODP tonnes has been achieved** through the completion of ten previously approved individual projects, thus exceeding the 2003 annual CFC phase-out target (see Annex-1).

#### 6. Brief report on activities in 2004

During March to July 2004, activities at all remaining previously approved individual projects were completed and a total of 278 ODP tonnes of CFCs were eliminated. The equipment procured for the first batch of enterprises under the Plan has now been delivered and distributed to the respective recipients and the installation, commissioning and training for the same is in process at the respective project sites. Activities at these enterprises are targeted for completion by November 2004. Together with the CFC phase-out achieved through the completion of all previously approved individual projects, this would facilitate achieving the 2004 phase-out target of 508 ODP tonnes.

The second batch of 42 participating enterprises in the Plan was endorsed by MOEF to UNDP in March/April 2004. The equipment procurement exercise for the second batch of enterprises was completed during May to July 2004 and the purchase orders for the equipment for second batch of enterprises were issued in August 2004. The cumulative CFC consumption of these enterprises amounted to about 220 ODP tonnes, which would be phased out upon completion of all activities at these enterprises, is expected by early 2005, thus contributing to the 2005 phase-out target.

The verification of baselines for the current and subsequent batches of participating enterprises was carried out on an ongoing basis by SPPU.

## 7. Annual Implementation Programme for 2005 and Funding

The 2005 annual implementation programme for is attached in Annex-2, with a request for release of the third funding tranche for the Foam Sector, as below:

<b>Sector</b>	<b>Agency</b>	<b>Tranche Amount (US\$)</b>	<b>Agency Fees (US\$)</b>	<b>Total (US\$)</b>
Foam	UNDP	1,500,000	131,000	1,631,000
<b>Total</b>		<b>1,500,000</b>	<b>131,000</b>	<b>1,631,000</b>

## 5.

**6. INDIA****Projects in the Foam Sector Completed during 2003**

UNDP Project Number	MLF Project Number	Project Name	Approved Grant (US\$)	ODS (MT/y)	ODP (MT/y)	Remark
IND/96/G92	IND/FOA/20/INV/101	Vora Cork Industries	264,500	39.60	39.60	Completed 7/2003
IND/00/G68	IND/FOA/29/INV/242	SME Group - III (24 enterprises)	777,198	107.10	97.72	Completed 4/2003
IND/01/G12	IND/FOA/34/INV/321	Spray Group – II	759,165	192.48	178.36	Completed 11/2003
IND/01/G62	IND/FOA/32/INV/289	Sawhney Seating Systems P. Ltd.	241,619	28.90	27.99	Completed 7/2003
IND/01/G63	IND/FOA/32/INV/285	Sun Steering Wheels Ltd.	144,379	17.00	15.65	Completed 2/2003
IND/01/G64	IND/FOA/32/INV/280	Netplast	177,224	18.00	18.00	Completed 11/2003
IND/01/G67	IND/FOA/34/INV/324	Apollo Steelcrafts	76,925	14.75	13.67	Completed 11/2003
IND/01/G73	IND/FOA/34/INV/330	Nu-Foam Rubber Industries	160,150	15.65	15.65	Completed 2/2003
IND/01/G77	IND/FOA/34/INV/312	Roome Plastics P. Ltd.	100,546	19.50	18.07	Completed 11/2003
IND/01/G78	IND/FOA/34/INV/334	Solvay Mouldings P. Ltd.	196,885	28.13	26.07	Completed 7/2003
<b>TOTAL</b>			<b>2,898,591</b>	<b>481.11</b>	<b>450.78</b>	

**Notes:**

1. All enterprises achieved all project objectives and met all project obligations, such as phase-out of CFCs, phase-in of CFC-free production, depletion of CFC stocks, destruction of redundant and replaced baseline equipment, etc.
2. Handover Protocols (HOPs) were issued and signed by all parties in 2003.

**INDIA - FOAM SECTOR PLAN**  
**2005 Annual Implementation Program**

**1. Data**

Country	India
Year of plan	2005
Number of years completed	2.5
Number of years remaining under the plan	2 (2005 and 2006)
Target ODS consumption in previous year (2004)	1,034
Target ODS consumption in the next year (2006)	128
Level of funding requested (US\$)	1,500,000
Lead implementing agency	UNDP
Co-operating agency (ies)	N/A

**2. Targets**

<i>Indicators</i>		<b>Previous Year Data (official – as reported in 2003)</b>	<b>Reduction previous year 2003 (actual)</b>	<b>Present year Data 2004 (planned)</b>	<b>Reductions present year 2004 (planned)</b>	<b>Reductions year of plan 2005 (planned)</b>
<b>Supply of ODS in Sector (ODP MT)</b>	Import					
	Production					
	<b>Total (1)</b>					
<b>Demand of ODS in Sector (ODP MT)</b>	Manufacturing	1,536	481	1,034	508	401
	Servicing	N/A	N/A	N/A	N/A	N/A
	Stock piling	N/A	N/A	N/A	N/A	N/A
	<b>Total (2)</b>	<b>1,536</b>	<b>481</b>	<b>1,034</b>	<b>508</b>	<b>401</b>

**3. Activities and Costs**

Type of Activity	Description of Activity	Objective	Target Group	Impact (General)	Impact (ODP MT)	Planned Expenditures (US\$)	Agency Associated
<b>Customs &amp; Policy Training</b>							
<b>Awareness</b>							
<b>Establishing/upgrading Training Institutions</b>							
<b>Training</b>							
<b>Equipment</b>	Replacement of baseline CFC-based equipment	Introduction of new equipment suited for non-CFC technology	30-35 Recipient enterprises engaged in production of foam	Technology conversion and elimination of CFC consumption	401	1,500,000	UNDP
<b>Retrofit</b>							
<b>Total</b>					<b>401</b>	<b>1,500,000</b>	
<b><i>Support Cost by Agency</i></b>							
<b>UNDP</b>						131,000	