



**Programa de las  
Naciones Unidas  
para el Medio Ambiente**

Distr.  
Limitada

UNEP/OzL.Pro/ExCom/44/39  
3 de noviembre de 2004



ESPAÑOL  
ORIGINAL: INGLÉS

COMITÉ EJECUTIVO DEL FONDO MULTILATERAL  
PARA LA APLICACIÓN DEL  
PROTOCOLO DE MONTREAL  
Cuadragésima Cuarta Reunión  
Praga, 29 de noviembre al 3 de diciembre de 2004

**PROPUESTA DE PROYECTO: INDIA**

Este documento contiene los comentarios y las recomendaciones de la Secretaría del Fondo sobre la siguiente propuesta de proyecto:

Eliminación

- Plan de eliminación en el sector de espuma (tercer tramo) PNUD
- Plan nacional de eliminación del consumo de CFC centrado en el sector de los servicios de refrigeración (segundo tramo) PNUD, PNUMA, ONUDI, Alemania y Suiza
- Plan de eliminación de CFC en el sector de fabricación de refrigeración (tercer tramo) PNUD

**HOJA DE EVALUACIÓN DE PROYECTOS –PROYECTOOS PLURIANUALES  
PAÍS: INDIA**

**TÍTULO DEL PROYECTO****BILATERAL/ORGANISMO EJECUTOR**

Plan Nacional de Eliminación del Consumo de CFC centrado en el sector de los servicios de refrigeración	GTZ en nombre de Alemania Infras en nombre de Suiza PNUD, PNUMA, ONUDI
---	--

**TÍTULO DE LOS SUB-PROYECTOS**

(a) Plan sectorial de eliminación de CFC en el sector espuma	PNUD
(b) Plan de eliminación de CFC en el sector de (fabricación de) refrigeración	PNUD, ONUDI
(c) Plan Nacional de eliminación en el sector de servicios, aduanas y políticas – componente del sector de servicios	GTZ, Infrac, PNUD, PNUMA
(d) Plan Nacional Eliminación en el sector de servicios, aduanas y políticas – componente de aduanas y políticas	PNUMA

**ORGANISMO NACIONAL DE COORDINACIÓN:**

MOEF

**ÚLTIMOS DATOS PRESENTADOS SOBRE EL CONSUMO DE SAO QUE SE UTILIZAN EN EL PROYECTO****A: DATOS DEL ARTÍCULO 7 (TONELADAS PAO, 2002, a octubre de 2004)**

CFC	3.917,70
-----	----------

**B: DATOS SECTORIALES DEL PROGRAMA POR PAÍS (TONELADAS PAO, 2003, a octubre de 2004)**

SAO	Espuma	Ref.	Aerosol	Agente procesador
CFC	1 536,05	2 201,10	157	23,58

**Consumo de CFC restante admisible para el financiamiento (Toneladas PAO)**

0

**PLAN ADMINISTRATIVO PARA EL AÑO EN CURSO: Financiamiento total 3,633 millones \$EUA: eliminación total de 884,5 toneladas PAO.**

DATOS DEL PROYECTO		2004	2005	2006	2007	2008	2009	2010	Total	
CFC (Toneladas PAO)	Límites del Protocolo de Montreal	6 681	3 340	3 340	1 005	1 005	1 005	0	n.d.	
	Límite anual de consumo	4 362	3 061	2 307	1 005	1 005	1 005	0	n.d.	
	Eliminación anual gracias a proyectos en curso	926	115	0	0	0	0	0	1 041	
	Eliminación anual adicional	749	739	496	147	145	173	0	2 448	
<b>CONSUMO DE SAO TOTAL QUE SE DEBE ELIMINAR</b>		1 301	754	1 302	0	0	1 005	0	4 362	
<b>Costo final del proyecto (\$EUA):</b>										
Financiación del organismo principal Alemania	1 <sup>er</sup> tramo			\$105 090	\$436 200	\$436 200	\$923 400	\$0	\$0	\$2 415 260
	2 <sup>o</sup> tramo	\$414 370	\$100 000							
Financiación de Suiza	\$353 020	\$256 650	\$256 650	\$367 140	\$367 140	\$0	\$0	\$0	\$1 600 600	
Financiación del PNUD	\$277 200	\$2 027 050	\$1 048 350	\$451 887	\$152 340	\$199 460	\$0	\$0	\$4 156 287	
Financiación del PNUMA	\$256 300	\$256 300	\$85 000	\$85 000	\$85 000	\$32 400	\$0	\$0	\$800 000	
Financiación total del proyecto	\$1 300 890	\$2 640 000	\$1 495 090	\$1 340 227	\$1 040 680	\$1 155 260	\$0	\$0	\$8 972 147	
<b>Costos de apoyo finales (\$EUA):</b>										
Costo de apoyo del organismo principal Alemania	\$53 868	\$13 000	\$13 662	\$56 706	\$56 706	\$120 042	\$0	\$0	\$313 984	
Costo de apoyo de Suiza	\$45 893	\$33 365	\$33 365	\$47 728	\$47 728	\$0	\$0	\$0	\$208 079	
Costo de apoyo del PNUD	\$20 790	\$173 400	\$87 063	\$37 944	\$11 426	\$14 960	\$0	\$0	\$345 582	
Costo de apoyo del PNUMA	\$33 319	\$33 319	\$11 050	\$11 050	\$11 050	\$4 212	\$0	\$0	\$104 000	
Costo total de apoyo	\$153 870	\$253 084	\$145 140	\$153 428	\$126 910	\$139 214	\$0	\$0	\$971 645	
<b>COSTO TOTAL PARA EL FONDO MULTILATERAL (\$EUA)</b>	\$1 454 760	\$2 893 084	\$1 640 230	\$1 493 655	\$1 167 590	\$1 294 474	\$0	\$0	\$9 943 792	
Costo a eficacia final del proyecto (\$EUA/kg)									n/a	

**FINANCIACIÓN SOLICITADA:**

Aprobación de la financiación del segundo tramo (2004) arriba señalada

<b>RECOMENDACIÓN DE LA SECRETARÍA</b>	<b>Pendiente</b>
---------------------------------------	------------------

## DESCRIPCIÓN DEL PROYECTO

### Antecedentes

1. El “Plan Nacional de Eliminación del consumo de CFC centrado en el sector de los servicios de refrigeración de la India ” fue aprobado en la 42ª Reunión del Comité Ejecutivo en abril de 2004. En virtud del Plan, se eliminará el consumo de todos los CFCs en la India de aquí al 1 de enero de 2010. El proyecto incluye varios planes sectoriales previos ya aprobados y nuevas actividades en un solo plan nacional. En la Tabla 1 figura una reseña del plan.

**Tabla 1: Reseña de los componentes del Plan Nacional de Eliminación del Consumo de CFC**

<b>Título del plan anterior / componente</b>	<b>Aprobado</b>	<b>Organismo (Principal)</b>	<b>Financiación total aprobada (\$EUA)</b>	<b>Tramo solicitado para el 2004 (\$EUA)</b>
Plan sectorial de eliminación de CFC en el sector de espuma	37ª reunión	<u>PNUD</u>	5 424 577	1 500 000 (3 <sup>er</sup> tramo)
Plan de eliminación de CFC en el sector de (fabricación de) refrigeración	38ª reunión	<u>PNUD</u> <u>UNIDO</u>	3 609 186	250 000 (3 <sup>er</sup> tramo)
Plan Nacional de eliminación en el sector de servicios, aduanas y políticas – componente del sector de servicios	42ª reunión	<u>Alemania</u> <u>Suiza</u> <u>PNUD</u> <u>PNUMA</u>	6 338 120	890 000 (2 <sup>o</sup> tramo)
Plan Nacional de eliminación en el sector de servicios, aduanas y políticas – componente de aduanas y políticas	42ª reunión	<u>PNUMA</u>		

2. Los requisitos sobre presentación de informes y rendimiento de estos cuatro proyectos eran inicialmente distintos, pero se armonizaron en gran medida gracias a la creación de un plan nacional unificado. El “Acuerdo entre la India y el Comité Ejecutivo del Fondo Multilateral para sobre el Plan para la Eliminación del Consumo de CFC centrado en el Sector de los Servicios de Refrigeración en la India” (PNUMA/OzL.Pro/ExCom/42/54, Anexo XIII) señala cuáles son los requisitos específicos en materia de presentación de informes de 2004 en adelante, así como la financiación disponible.

3. Para alcanzar las reducciones previstas del consumo de CFC, el Plan prevé inversiones y otras medidas ajenas a la inversión, asistencia técnica y actividades de creación de capacidades.

4. Se liberó un primer tramo de financiación de 1 300 890 \$EUA para los dos nuevos componentes, a raíz de la aprobación del Plan en abril de 2004, para la ejecución del Plan de Trabajo sobre la Ejecución de la Primera Fase, que abarca el período que media de abril de 2004 a marzo de 2005. En la 42ª reunión, se aprobó el segundo tramo de los dos planes sectoriales anteriores. Es la primera vez que se presenta un informe sobre este Plan Nacional de Eliminación del Consumo de CFC y que se solicita en un solo documento financiación para todos los componentes y planes sectoriales que antes eran independientes. A la vez, los anteriores planes sectoriales pasan de tener un cronograma de ejecución de enero a diciembre a uno que abarca los meses de abril y marzo.

5. El Gobierno de Alemania, como Organismo Ejecutor principal, presentó en nombre del Gobierno de la India el Informe de Progreso correspondiente al período de abril de 2004 a marzo de 2005 y el Plan de Trabajo para su ejecución entre abril de 2005 y marzo de 2006.

6. En el presente informe se presentan los progresos logrados en relación con los **nuevos componentes** en lo tocante a la ejecución de las actividades previstas en el Plan de Trabajo para la Ejecución de la Primera Fase entre abril de 2004 y el momento en que se presentó el informe, en septiembre de 2004. Dado que los nuevos componentes no tienen que respetar ninguna meta de rendimiento, no es necesario presentar ningún informe relativo al mismo. En el caso de los **planes sectoriales anteriores**, el informe da cuenta del progreso realizado en el año anterior, es decir, cumple los requisitos en materia de presentación de informes para el año 2003.

7. GTZ, en tanto que Organismo Ejecutor principal, presenta el informe relativo a la ejecución de actividades y los logros durante el año 2004, para su consideración por el Comité Ejecutivo del Fondo Multilateral durante su 44ª reunión, y solicita la aprobación del Plan de Trabajo para la Ejecución de la Segunda Fase que abarca el período que media entre abril de 2005 y marzo de 2006, el cual se presenta también en el presente informe. GTZ pide que se libere el segundo tramo de financiación acordado y fijado en 2 640 000 \$EUA para todos los componentes más las correspondientes tasas de apoyo para la ejecución del Segundo Plan de Trabajo de Ejecución. En la sección 3 del presente informe se presenta el Plan de Trabajo para la Ejecución de la Segunda Fase que abarca el período de abril de 2005 a marzo de 2006.

8. Con este Segundo tramo de financiación, la India podrá proseguir sus actividades de eliminación de los CFC a nivel sectorial y empresarial, llevar a cabo actividades de capacitación e iniciar políticas, relaciones públicas y actividades de sensibilización que se consideren necesarias para mantener las reducciones del consumo de CFC ya alcanzadas y garantizar el cumplimiento de los objetivos en materia de rendimiento especificados en el “Acuerdo” relativo al segundo tramo de la financiación, que asciende a 2 640 000 \$EUA.

#### Sector de servicios, aduanas y políticas

9. El Gobierno de Alemania, como Organismo Ejecutor principal, presentó el Plan de Trabajo para la Ejecución de la Segunda Fase, que abarca el período de abril de 2005 a marzo de 2006, y solicita que se libere el segundo tramo de financiación, fijado en 890 000 \$EUA más las tasas de apoyo correspondientes. El Plan de Trabajo para la Ejecución de la Segunda Fase ofrece información pormenorizada sobre las actividades, los objetivos, el impacto en cuanto a la

eliminación de PAO, cuyo total alcanza las 158 Toneladas PAO, y los gastos previstos, y cita los organismos asociados a la ejecución de esas actividades específicas.

10. En la Tabla 2 se desglosa la financiación solicitada.

**Tabla 2: Desglose de la financiación del componente del sector de servicios, aduanas y políticas**

Organismo	Tramo (\$EUA)	Costos de apoyo (\$EUA)
Gob. de Alemania	100 000	13 000
Gob. de Suiza	256 650	33 365
PNUD	277 050	20 779
PNUMA	256 300	33 319
<b>Total</b>	<b>890 000</b>	<b>100 463</b>

#### Sector de fabricación de refrigeración

11. El Plan de Eliminación de CFC en el Sector de Fabricación de Refrigeración en la India fue aprobado en la 38ª Reunión del Comité Ejecutivo, a un nivel total de financiamiento de 3 609 186 \$EUA, a ser desembolsado en cinco tramos, hasta la completa eliminación de CFC en el sector de fabricación de refrigeración en la India de aquí al 1 de enero de 2007. El Plan será ejecutado por dos organismos. El componente del Plan ejecutado por ONUDI cubre la eliminación en el sub-sector de transporte refrigerado y el otro componente del plan ejecutado por el PNUD como organismo ejecutor principal cubre todos los otros sub-sectores del sector de fabricación de refrigeración, excluyendo el sub-sector de transporte refrigerado. El Plan de Eliminación cubrirá la conversión tecnológica de todas las empresas admisibles restantes del sector de fabricación de refrigeración, con excepción del sector de los equipos de aire acondicionado de los vehículos, combinando las inversiones con el apoyo técnico y las actividades de administración. El desglose del total de fondos aprobados es el siguiente:

**Tabla 3: Desglose de los fondos aprobados para el componente de (fabricación de) refrigeración**

Actividad	Fondos	Organismo
Actividades de inversión (incluyendo imprevistos) que serán ejecutadas por el PNUD	2 675 986 \$EUA	PNUD
Actividades de inversión (incluyendo imprevistos) que serán ejecutadas por ONUDI	673 200 \$EUA	ONUDI
Actividad de políticas/administración	260 000 \$EUA	PNUD
<b>Total</b>	<b>3 609 186 US\$</b>	

12. El Gobierno de Alemania presenta el informe de progreso sobre la ejecución de las actividades previstas en el Plan del Sector de Fabricación de Refrigeración para el período 2003-2004 y el Plan de Trabajo para 2005, en el marco de la presentación de informes sobre el Plan Nacional para la Eliminación del Consumo de CFC en la India centrado en el sector de fabricación de refrigeración. La meta para 2003 del Plan del sector de fabricación de refrigeración es la eliminación de 250 toneladas PAO, que se logrará mediante la ejecución de 9 proyectos individuales y proyectos colectivos aprobados anteriormente por el Comité Ejecutivo en relación con el sector de refrigeración comercial en la India.

13. Según el informe, todas las empresas cumplieron los objetivos y todas las obligaciones del proyecto, como la eliminación de CFC, la incorporación de métodos de producción sin CFC, el agotamiento de las reservas de CFC, la destrucción de equipos básicos superfluos y repuestos, etc. Se emitieron los protocolos de traspaso de los proyectos correspondientes, que fueron firmados por todas las partes en 2003. En diciembre de 2003, se había logrado eliminar un total de 286,10 toneladas PAO, cifra que superó por lo tanto la meta anual prevista para la eliminación de CFC en 2003.

14. La meta para 2004 asociada a la ejecución de los proyectos en curso es de 187 toneladas PAO. A septiembre de 2004, se habían finalizado las actividades correspondientes a tres de los cuatro proyectos individuales aprobados anteriormente. A finales de 2004, podrán haberse finalizado todos los demás proyectos individuales aprobados anteriormente, lo cual llevará a la eliminación de 60 toneladas PAO aproximadamente.

15. La meta para 2004 en cuanto a la eliminación en virtud del Plan del Sector de Fabricación de Refrigeración está fijada en 140 toneladas PAO para el PNUD en el sub-sector de la refrigeración comercial y en 40 toneladas PAO para ONUDI en el subsector del transporte refrigerado. Según el informe de progreso, los equipos comprados para el primer grupo de empresas de conformidad con el Plan están siendo entregados y distribuidos a los receptores correspondientes. Está previsto finalizar las actividades de muchas de esas empresas en noviembre de 2004. Junto con la eliminación de CFC lograda al finalizar todos los proyectos individuales aprobados previamente, esto permitiría cumplir la meta de 2004 relativa a la eliminación de 368 toneladas PAO.

#### *Programa Anual de Ejecución para 2005*

16. El programa anual de ejecución para 2005 incluye actividades de planificación que serán ejecutadas por el PNUD en el sector de fabricación de refrigeración, y por ONUDI en el sub-sector del transporte refrigerado. El consumo de 547 toneladas PAO de CFC previsto para 2004 en este sector debería reducirse en 352 toneladas PAO, pasando a situarse en 2006 en 195 toneladas PAO, lo cual supone una cifra inferior a la prevista en el plan para este sector (203 toneladas PAO). Las actividades propuestas incluyen la sustitución de los equipos de producción que recurran a SAO por tecnologías sin SAO. El tramo solicitado corresponde a \$250 000 \$EUA, a los cuales se añaden 21 621 \$EUA de gastos de apoyo para el PNUD.

## El sector de espuma

17. El Plan sectorial de Eliminación de CFC en el Sector de Espuma de la India fue aprobado en la 37ª reunión del Comité Ejecutivo en julio de 2002 con un valor total de 5 900 789 \$EUA, incluyendo los gastos de apoyo del organismo de 476 212 4 \$EUA, aprobados en principio para la eliminación de 1 655 toneladas PAO. El Plan será ejecutado en cinco fases (tramos) a partir de 2002-2006. El primer tramo de 1,5 millones \$EUA con costos de apoyo del organismo de 131 000 \$EUA fue aprobado en la 37ª reunión, en julio de 2002, con una eliminación esperada de 221 toneladas PAO de CFC. El segundo tramo de 1,75 millones \$EUA con costos de apoyo del organismo de 153 300 \$EUA fue aprobado en la 41ª reunión.

18. En ese acuerdo inicial, aprobado en la 37ª reunión, se estipulaba cuál era el papel del PNUD, señalando entre otras cosas que consistía en *“verificar y señalar al Comité Ejecutivo que las metas establecidas en la Tabla 1 y las actividades asociadas se han cumplido”* y *“asegurarse de que las auditorías de verificación exigidas son llevadas a cabo por los expertos técnicos independientes adecuados”*. El Comité Ejecutivo exigió en la 41ª reunión, en virtud de la decisión 41/44, que *“...el PNUD adopte las disposiciones necesarias en el programa de ejecución anual 2003 – 2004 para el desarrollo de una metodología que pueda ser utilizada por un auditor independiente para verificar los límites de consumo del 2003 y de años subsiguientes, de conformidad con el acuerdo del plan de eliminación de CFC en el sector de espuma”*.

19. En la 42ª reunión, el Comité Ejecutivo aprobó el “Plan nacional para la eliminación del consumo de CFC centrado en el sector de los servicios de refrigeración en la India” (el Plan Nacional para la Eliminación del Consumo de CFC), en el que se incorporan los acuerdos sectoriales anteriores, incluido el “Acuerdo para la eliminación de los CFC en el Sector de Espuma de la India”. El Acuerdo señala que *“este Acuerdo incluye y se superpone a los Acuerdos establecidos entre el Comité Ejecutivo y la India en la 37ª reunión con vistas a la eliminación de los CFC en el Sector de Espuma... en la India”*. Además, se señala en el Apéndice 2-A una serie de metas relativas a la eliminación aplicables únicamente a partir de 2004. No figura ninguna disposición relativa a 2003. Los requisitos en materia de presentación de informes sobre el Plan del Sector de Espuma se mantienen por lo tanto sin cambios para las actividades de 2003.

20. Los límites de consumo y las metas de reducción de CFC acordados, así como el cronograma de desembolso previsto en el acuerdo relativo al plan del sector de espuma figuran en la Tabla 4. Para el Plan Nacional para la Eliminación del Consumo de CFC se han retomado exactamente las mismas metas.

**Tabla 4: Cronograma de Desembolsos y Metas de Control para el Consumo / Eliminación de CFC en el Sector de Espuma en la India**

Parámetro	2002	2003	2004	2005	2006	2007	Total
Límite de consumo anual de CFC en el Sector de Espuma (PAO MT)	1 655	1 434	1 037	529	128	0	N/A
Meta de eliminación anual de CFC en el Sector de Espuma (PAO MT)	221	397	508	401	128	0	1 655
Total Cuota Anual de Financiamiento (\$EUA)*	1 500 000	1 750 000	1 500 000	450 000	224 577	0	5 424 577
Costos de Apoyo del Organismo (\$EUA)	131 000	153 500	131 000	40 500	20 212	0	476 212
<b>Costo total para el Fondo Multilateral (\$EUA)</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>

\* Incluye gastos de apoyo para políticas y administración de 100 000 \$EUA para cada uno de los años entre 2002-2004.

#### *Informe del Programa de Ejecución 2003 - 2004*

21. El siguiente es un resumen de los logros del Programa de Ejecución presentados por GTZ en nombre del PNUD para 2003-2004:

- a) Las actividades preparatorias se iniciaron con la recepción del primer tramo de 1 500 000 \$EUA en agosto de 2002. El segundo tramo de financiación de 1 750 000 \$EUA fue liberado en noviembre de 2003 para el programa anual de 2004. Se acordó ejecutar ese proyecto a través de la modalidad directa de ejecución. El PNUD y el Ministerio de Medio Ambiente y Forestación (MOEF) acordaron un mecanismo operativo para su ejecución en febrero de 2003.
- b) El documento relativo al proyecto del PNUD para la primera fase fue presentado al MOEF en marzo de 2003 y firmado por todas las partes en mayo de 2003.
- c) La lista de las primeras 28 empresas participantes fue provisionalmente respaldada por el MOEF en abril/mayo de 2003. Cuando se finalicen todas las actividades, se habrá conseguido eliminar 279, 20 toneladas métricas de CFC, con las que se contribuirá al cumplimiento de la meta de eliminación anual de CFC para 2004.
- d) El PNUD tomó las medidas necesarias para asignar los contratos entre marzo y noviembre de 2003.
- e) El administrador del programa nacional de la unidad del plan de eliminación del sector asumió su cargo en junio de 2003. Los aspectos logísticos e infraestructurales están resueltos y la unidad del plan de eliminación del sector está plenamente operativa.
- f) En agosto de 2003 se finalizó la verificación de la base de referencia de las



28 primeras empresas seleccionadas. Se ha iniciado la verificación en las empresas seleccionadas para su futura participación/contratación, y se va a seguir con ella.

22. La meta anual de eliminación de CFC para 2003 eran 397 MT, que se eliminarían gracias a la finalización de los proyectos individuales previamente aprobados. A diciembre de 2003, se habían eliminado 481,11 toneladas PAO al finalizarse diez proyectos individuales previamente aprobados, lo cual permitió superar la meta de eliminación anual de CFC fijada para 2003.

#### *Informe de actividades de 2004*

23. Entre marzo y julio de 2004, se finalizaron las actividades de todos los proyectos individuales anteriormente aprobados y se eliminaron en total 278 toneladas PAO de CFC. Se están desarrollando ciertas actividades relacionadas con el suministro de una parte del material contratado, los comisionados y la capacitación. Junto con la eliminación de CFC derivada de la finalización de todos los proyectos individuales anteriormente aprobados, esto ayudará a cumplir la meta de eliminación para 2004 fijada en 508 toneladas PAO.

24. El segundo grupo de 42 empresas que participan en el plan fue aprobado por el MOEF y el PNUD en marzo/abril de 2004. Las órdenes de compra para el segundo grupo de 42 empresas participantes se emitieron en agosto de 2004. El consumo cumulativo de CFC de estas empresas alcanza las 220 toneladas PAO, lo cual influye en la meta de eliminación de 2005. La unidad de eliminación del plan del sector se encarga de forma permanente de llevar a cabo la verificación de la base de referencia para este grupo de empresas participantes y para los siguientes.

#### *Programa anual de ejecución para 2005*

25. Se solicita un monto total de 1 500 000 \$EUA y 131 000 \$EUA en costos de apoyo al PNUD para la ejecución del tercer tramo.

26. Las metas del plan de eliminar 401 toneladas PAO de CFC en 2005 son independientes de los proyectos aprobados antes del plan de sector. Las 401 toneladas PAO podrían reducirse si la eliminación de CFC del programa de 2004 supera lo previsto en el plan; la suma de las necesidades correspondientes a la eliminación de CFC en estos dos años equivale a 909 toneladas PAO.

27. Se seguirán coordinando y supervisando los proyectos en curso, a la vez que se iniciarán visita para verificar la base de referencia y se celebrará un taller técnico para la empresas receptoras.

28. El Programa Anual de Ejecución para 2005 y el informe acerca del Programa Anual de 2003 se adjuntan al presente documento.

## COMENTARIOS Y RECOMENDACIONES DE LA SECRETARÍA

### COMENTARIOS

#### General

29. En el momento de finalizar el presente documento, la India no ha informado acerca de su consumo conforme al Artículo 7 del Protocolo de Montreal. La presentación de informes sobre el consumo es un requisito establecido en virtud del Plan Nacional para la Eliminación del Consumo de CFC, aunque éste no fije para el año 2003 ningún criterio sobre rendimiento en relación con el consumo de CFC.

30. La petición de financiación presentada por el Gobierno de Alemania abarca los tres componentes del Plan Nacional para la Eliminación del Consumo de CFC, ejecutados por cuatro organismos distintos. En la Tabla 5 se reseña la composición de la petición de financiación:

**Tabla 5: Reseña de la petición de financiación**

<b>Organismo</b>	<b>Componente</b>	<b>Fondos solicitados \$EUA</b>	<b>Costos de apoyo solicitados \$EUA</b>
Alemania	Sector de servicios, aduanas y políticas	\$100 000	\$13 000
Suiza	Sector de servicios, aduanas y políticas	\$256 650	\$33 365
PNUD	Sector de Espuma	\$1 500 000	\$131 000
	Sector de (fabricación de) refrigeración	\$250 000	\$21 621
	Sector de servicios, aduanas y políticas	\$277 050	\$20 779
PNUMA	Sector de servicios, aduanas y políticas	\$256 300	\$33 319
<b>Total</b>		<b>\$2 640 000</b>	<b>\$253 084</b>

#### Sector de servicios, aduanas y políticas

31. El componente relativo al sector de servicios, aduanas y políticas sólo se aprobó en principio en abril de 2004 y acaba de ponerse en marcha; por lo tanto, siendo éste el primer año de su ejecución, no existe ningún requisito en materia de presentación de informes para este componente. El programa de ejecución anual para 2005 es claro al respecto.

#### Refrigeración

32. Cabe señalar que el Gobierno de la India no presentó a la Secretaría del Fondo Multilateral el informe sobre la ejecución de su programa por país para el año 2003. Por lo tanto, la Secretaría no dispone de los datos sobre el consumo de CFC en 2003 relativos al sector industrial. Los datos de 2002 indican que el consumo de CFC en el sector de fabricación de refrigeración alcanzaba las 849, 04 toneladas PAO.

33. La Secretaría señaló a GTZ (Alemania) y al PNUD que el informe presentado por GTZ/PNUD no ofrece información relativa a la verificación del consumo en 2003 en el sector de fabricación de refrigeración, al nivel de reducción señalado en el Anexo 2 del Programa Anual para 2005, ni a la verificación de la eliminación acerca de la que se informa a nivel empresarial.

34. En relación con la solicitud presentada por el PNUD para el segundo tramo, se planteó antes de la 41ª reunión el problema de las auditorías de verificación. El PNUD contestó entonces que el PNUD y el Gobierno de la India subcontratarían un organismo independiente en 2004 para proceder a la verificación del nivel nacional de consumo en el sector de la refrigeración mediante una auditoría sobre los datos de producción, importación y exportación. También estaba previsto llevar a cabo una verificación en las empresas donde se estuvieran realizando proyectos para verificar su nivel de consumo básico y asegurarse de que realmente tuvo lugar la eliminación correspondiente a 2003. Se esperaba también que el organismo independiente en cuestión verificara las actividades incluidas en el Programa Anual para 2003. La Secretaría planteó la cuestión de la verificación independiente en la 41ª reunión del Comité Ejecutivo.

### Espuma

35. El informe sobre el programa para 2003-2004 señalaba que se eliminaron en 2003 las 481,11 toneladas PAO correspondientes a los proyectos en curso en 2003, lo cual suponía una mayor eliminación que la meta prevista de 397 toneladas PAO. El informe también indicaba que a septiembre de 2004 todos los proyectos individuales o proyectos colectivos sobre Espuma aprobados antes del plan de sector habían finalizado y había permitido eliminar 278 toneladas PAO.

36. El PNUD confirmó que el límite de consumo para el año anterior y las metas de eliminación correspondientes se han cumplido, y ha presentado una lista de empresas convertidas junto con el consumo correspondiente a cada una de ellas. No se ha llevado a cabo una auditoría independiente para verificar las cantidades de CFC eliminadas gracias a los proyectos ni los datos de consumo de CFC relativos al sector de Espuma.

37. No se ha informado a la Secretaría acerca de la verificación de que las actividades previstas para el año anterior se hubieran llevado a cabo de conformidad con el programa anual de ejecución. El informe no incluye tampoco ninguna referencia a las peticiones explícitas del Comité Ejecutivo de que se previeran disposiciones en el programa anual de ejecución de 2003-2004 relativas al desarrollo de una metodología para realizar una auditoría independiente que permitiera verificar los límites de consumo en el sector para 2003.

38. El PNUD señaló que se presentaría poco antes de la 44ª reunión del Comité Ejecutivo (22 de noviembre de 2004) un informe de verificación sobre el nivel nacional de consumo. En el momento de finalizar el presente documento, la Secretaría aún no ha recibido el informe y, por lo tanto, no ha podido determinar si dicho documento cumple todos los requisitos en materia de presentación de informes. Cabe dudar de que sea posible revisarlo de aquí al Comité Ejecutivo. Se ofrecerá asesoramiento durante la reunión del Comité Ejecutivo.

39. El monto de \$EUA 1 500 000 y los costos de apoyo asociados del organismo de 131 000 \$EUA para la ejecución del programa anual de ejecución 2003-2004 para el plan de eliminación del sector de espuma en la India es conforme al Acuerdo.

## **RECOMENDACIÓN**

40. El Comité Ejecutivo podría considerar la aprobación de las solicitudes de financiación relativas a:

- a) el componente del sector de servicios, aduanas y políticas del plan de eliminación, incluida la solicitud relativa a los costos de apoyo, que figura en la Tabla 5; y
- b) los sectores de (fabricación de) refrigeración y espuma, teniendo en cuenta los comentarios de la Secretaría presentados en los párrafos 33 y 34 (sector de refrigeración) y 37 a 39 (sector de espuma), procediendo a la transferencia de los tramos pertinentes señalados en la Tabla 5, una vez que se reciba la verificación pendiente.

# **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

**TABLE OF CONTENTS**

<b>INTRODUCTION</b>	<b>2</b>
<b>ORGANISATIONAL RESPONSIBILITIES FOR IMPLEMENTATION OF NCCOPP</b>	<b>2</b>
<b>Section 1. ACHIEVEMENTS VERSUS PERFORMANCE INDICATORS RELATED TO THE 1st PHASE IMPLEMENTATION WORK PLAN (April 2004 – March 2005)</b>	<b>2</b>
<b>Section 2 A. NCCoPP REPORT ON THE FIRST PHASE IMPLEMENTATION WORK PLAN (April 2004 – March 2005)</b>	<b>2</b>
<b>1. Introduction &amp; Time Period Involved</b>	<b>2</b>
<b>2. First Phase Implementation Work Plan – Planned Activities &amp; Achievements</b>	<b>2</b>
<b>Table 1: Budget and Expenditure for 1st Phase Implementation Work Plan 2004, Status 30/9/2004</b>	<b>2</b>
<b>Table 2: Activity wise Implementation Status as per 30 September 2004</b>	<b>2</b>
<b>Section 2 B. REPORT ON REFRIGERATION MANUFACTURING AND FOAM SECTOR ACTIVITIES UNDER THE NATIONAL PHASE OUT PLAN</b>	<b>2</b>
<b>1. Refrigeration Manufacturing Sector</b>	<b>2</b>
<b>2. Foam Sector</b>	<b>2</b>
<b>Section 3. NCCoPP SECOND PHASE IMPLEMENTATION WORK PLAN – APRIL 2005 to MARCH 2006 AND FUNDING REQUEST (2005 Work Plan)</b>	<b>2</b>
<b>1. Data</b>	<b>2</b>
<b>2. Targets</b>	<b>2</b>
<b>Table 3: Work Plan Second Phase Implementation (April 2005 – March 2006)</b>	<b>2</b>
<b>Appendix 1: NCCoPP Budget details and expenditure status by Implementing Agency (September 2004)</b>	<b>2</b>
<b>Appendix 2: NCCoPP Work Plan for 2nd Phase (2005) and IA-Budgets</b>	<b>2</b>
<b>Appendix 3: Refrigeration Manufacturing Sector CFC Phase Out Plan</b>	<b>14</b>
<b>Appendix 4: Foam Sector CFC Phase Out Plan</b>	<b>22</b>

## **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.

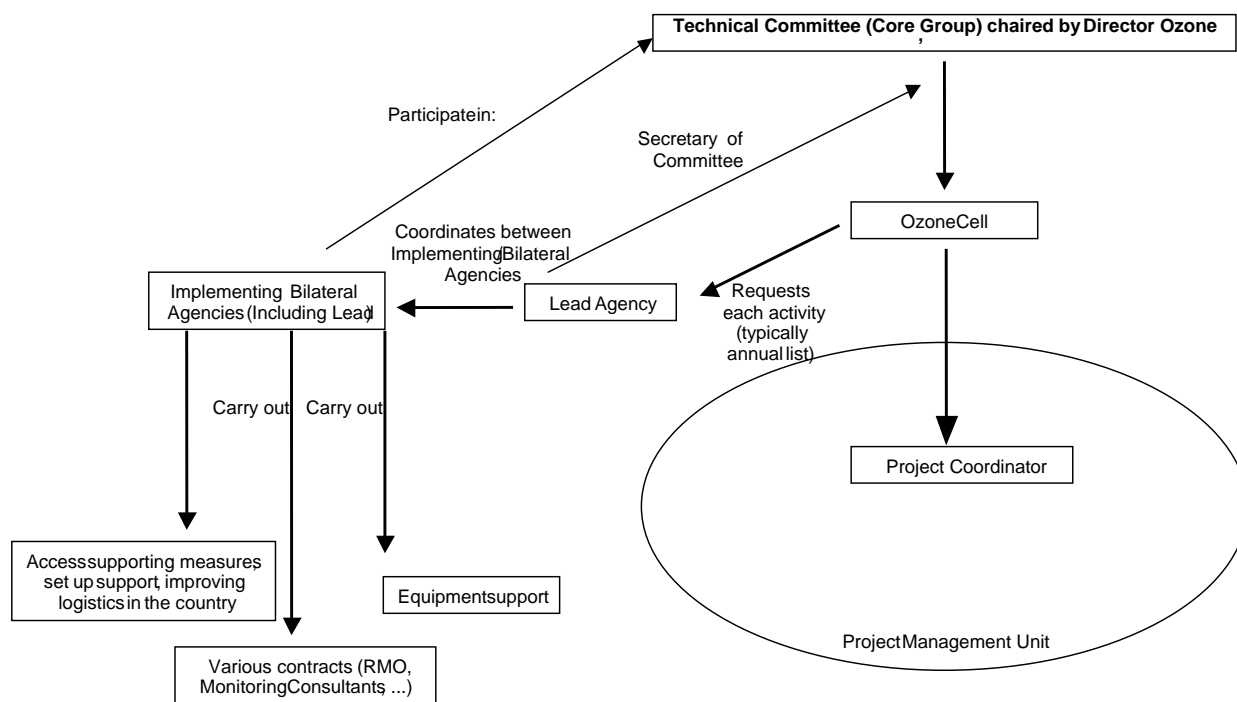
GTZ, as the lead Implementing Agency, is submitting the report on implementation activities and achievements in 2004 for consideration by the Executive Committee of the Multilateral Fund at its 44<sup>th</sup> Meeting and requests approval of the Second Phase Implementation Work Plan covering the period 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**

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

**2. Targets**

<b>Indicators</b>		<b>Previous Year (2003 official data)</b>	<b>Reduction previous to present year (actual)</b>	<b>Present year (2004 planned data)</b>	<b>Reductions present year to year of plan (planned)</b>	<b>Year of Plan (2005 planned data)</b>
<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>																
PMU	\$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	\$204'000	\$51'000		\$153'000			0%			\$0	\$0				\$204'000	
<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>	



## 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	200	\$208'000			\$208'000	
counterpart funding by technicians	200	-\$56'000			-\$56'000	
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>		\$87'942	\$16'245	\$23'325	\$25'077	\$23'295

**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>0</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>0</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	