



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

Distr.  
GENERAL

UNEP/OzL.Pro/ExCom/85/17  
7 de mayo de 2020



ESPAÑOL  
ORIGINAL: INGLÉS

COMITÉ EJECUTIVO DEL FONDO MULTILATERAL  
PARA LA APLICACIÓN DEL  
PROTOCOLO DE MONTREAL

Octogésima quinta Reunión  
Montreal, 25 – 29 de mayo de 2020  
Pospuesta: 19 – 22 de julio de 2020\*

**PROGRAMA DE TRABAJO DE LA ONUDI PARA 2020**

\* Debido al coronavirus (COVID-19)

Los documentos previos al período de sesiones del Comité Ejecutivo del Fondo Multilateral para la Aplicación del Protocolo de Montreal no van en perjuicio de cualquier decisión que el Comité Ejecutivo pudiera adoptar después de la emisión de los mismos.

## OBSERVACIONES Y RECOMENDACIÓN DE LA SECRETARÍA DEL FONDO

1. La ONUDI solicita al Comité Ejecutivo aprobar un monto de 747.664 \$EUA, más gastos de apoyo al organismo por valor de 52.336 \$EUA, para su programa de trabajo para 2020, que figura en el Cuadro 1. La presentación se adjunta al presente documento.

**Cuadro 1: Programa de trabajo de la ONUDI para 2020**

País	Actividad/proyecto	Cantidad solicitada (\$EUA)	Cantidad recomendada (\$EUA)
<b>SECCIÓN A: ACTIVIDADES RECOMENDADAS PARA APROBACIÓN GENERAL</b>			
<b>A1: Renovación de proyectos de fortalecimiento institucional</b>			
Libia	Renovación del proyecto de fortalecimiento institucional (fase VI)	174.164	174.164
Subtotal de A1		174.164	174.164
Gastos de apoyo al organismo		12.191	12.191
Total de A1		186.355	186.355
<b>A2: Preparación de proyectos para los planes de gestión para la eliminación de los HCFC</b>			
Argelia	Preparación de un plan de gestión para la eliminación de los HCFC (etapa II)	60.000	60.000
	Preparación de actividades de inversión para la eliminación de HCFC (espumas)	50.000	50.000
	Preparación de actividades de inversión para la eliminación de HCFC (aire acondicionado)	50.000	50.000
Burundi*	Preparación de un plan de gestión para la eliminación de los HCFC (etapa II)	10.000	10.000
Pakistán**	Preparación de un plan de gestión para la eliminación de los HCFC (etapa III)	50.000	50.000
	Preparación de actividades de inversión para la eliminación de HCFC (espumas)	50.000	50.000
	Preparación de actividades de inversión para la eliminación de HCFC (aire acondicionado)	40.000	40.000
Senegal*	Preparación de un plan de gestión para la eliminación de los HCFC (etapa II)	20.000	20.000
Subtotal de A2		330.000	330.000
Gastos de apoyo al organismo		23.100	23.100
Total de A2		353.100	353.100
<b>A3: Preparación de proyectos para proyectos de HFC</b>			
Sudán	Preparación de proyectos para proyectos de HFC (aire acondicionado)	30.000	30.000
Subtotal de A3		30.000	30.000
Gastos de apoyo al organismo		2.100	2.100
Total de A3		32.100	32.100
<b>SECCIÓN B: ACTIVIDADES RECOMENDADAS PARA CONSIDERACIÓN INDIVIDUAL</b>			
<b>B1: Preparación de proyectos para los planes de gestión para la reducción de los HFC</b>			
Albania**	Preparación de un plan de gestión para la reducción de los HFC	63.500	***
Jordania	Preparación de un plan de gestión para la reducción de los HFC	150.000	***
Subtotal de B1		213.500	***
Gastos de apoyo al organismo		14.945	***
Total de B1		228.445	***
Total general (A1, A2, A3, B1)		800.000	571.555

\* PNUMA, como organismo de ejecución principal

\*\* PNUMA, como organismo de ejecución cooperante

\*\*\* Para consideración individual

## **SECCIÓN A: ACTIVIDADES RECOMENDADAS PARA APROBACIÓN GENERAL**

### **A1: Renovación de proyectos de fortalecimiento institucional**

#### **Descripción de proyectos**

2. La ONUDI presentó una solicitud para la renovación del fortalecimiento institucional para un país que opera al amparo del Artículo 5 listado en la sección A1 del Cuadro 1. La descripción de este proyecto se presenta en el Anexo I de este documento.

#### **Comentarios de la Secretaría**

3. La Secretaría examinó la solicitud de la renovación del proyecto de fortalecimiento institucional para Libia presentado por la ONUDI en nombre del Gobierno correspondiente en relación a las directrices y las decisiones relevantes en cuanto a la admisibilidad y los niveles de financiación. La solicitud se comparó con el plan de trabajo original de fortalecimiento institucional de la fase previa, el programa de país y los datos según el Artículo 7, el último informe sobre la ejecución del plan de gestión para la eliminación de los HCFC, el informe sobre la marcha de las actividades del organismo y las decisiones relevantes de la Reunión de las Partes. Se observó que este país presentó sus datos del programa de país de 2019 y está en situación de cumplimiento con los objetivos controlados según el Protocolo de Montreal, y su consumo anual de HCFC no supera el consumo permisible máximo establecido en su Acuerdo del plan de gestión para la eliminación de los HCFC con el Comité Ejecutivo. Además, la solicitud incluía indicadores de desempeño para las actividades planeadas para la próxima fase del proyecto de fortalecimiento institucional, de acuerdo con la decisión 74/51(e).

#### **Recomendaciones de la Secretaría**

4. La Secretaría recomienda la aprobación general de la solicitud de renovación de fortalecimiento institucional para Libia con el nivel de financiación indicado en la sección A1 del Cuadro 1 del presente documento. El Comité Ejecutivo puede estimar oportuno expresar al Gobierno correspondiente los comentarios presentados en el Anexo II de este documento.

### **A2: Preparación de proyectos para los planes de gestión para la eliminación de los HCFC**

#### **Descripción de proyectos**

5. La ONUDI presentó solicitudes para la preparación de la etapa II del plan de gestión para la eliminación de los HCFC para un país que opera al amparo del Artículo 5 como organismo de ejecución designado y para dos países que operan al amparo del Artículo 5 como organismo de ejecución cooperante con el PNUMA como organismo de ejecución principal; y para la preparación de la etapa III del plan de gestión para la eliminación de los HCFC para un país que opera al amparo del Artículo 5 como organismo de ejecución principal y el PNUMA como organismo de ejecución cooperante. Además, la ONUDI solicitó fondos para la preparación de proyectos para actividades de inversión en los sectores de la espuma de poliuretano y el aire acondicionado como parte de la etapa II del plan de gestión para la eliminación de los HCFC para un país y la etapa III del plan de gestión para la eliminación de los HCFC para otro país. Estas solicitudes se muestran en la sección A2 del Cuadro 1.

6. La ONUDI proporcionó descripciones de las actividades para apoyar la solicitud para la preparación de proyectos para aquellos países que operan al amparo del Artículo 5 para los cuales la ONUDI es el organismo de ejecución principal. Las presentaciones para cada país incluyeron: la justificación de la financiación solicitada para la preparación de los proyectos; un informe sobre la marcha de las actividades sobre la ejecución de la etapa I y/o la etapa II cuando corresponda de sus respectivos planes de gestión para la eliminación de los HCFC; y la lista de las actividades potenciales, incluyendo las actuaciones potenciales

cuando sea necesario; y los presupuestos correspondientes. El PNUMA, como organismo de ejecución principal para el plan de gestión para la eliminación de los HCFC para Burundi y Senegal y el organismo de ejecución cooperante para el plan de gestión para la eliminación de los HCFC para Pakistán, ha solicitado 70.000 \$EUA, más gastos de apoyo al organismo de 9.100 \$EUA, en su programa de trabajo para 2020.<sup>1</sup>

### **Comentarios de la Secretaría**

7. Al examinar las cuatro solicitudes, la Secretaría tuvo en cuenta las directrices sobre financiación para la preparación de los planes de gestión para la eliminación de los HCFC para los países que operan al amparo del Artículo 5, de conformidad con la decisión 71/42; las etapas I y II de los planes de gestión para la eliminación de los HCFC, conforme con lo aprobado; el estado de ejecución de los tramos, en el momento de preparar el presente documento, y la decisión 82/45(c)(i).<sup>2</sup> La Secretaría tomó nota de que la financiación solicitada para cada país era conforme con la decisión 71/42, y la ONUDI confirmó que los tramos de financiación restantes para dichos países se presentarían tal como se ha programado en sus Acuerdos con el Comité Ejecutivo.

8. La ONUDI confirmó que la etapa II de los planes de gestión para la eliminación de los HCFC para Argelia eliminará el 67,5 por ciento del nivel básico de HCFC para el 1 de enero de 2025 y la etapa III del plan de gestión para la eliminación de los HCFC para Pakistán eliminará el 97,5 por ciento del nivel básico de HCFC para el 1 de enero de 2030.

### **Recomendaciones de la Secretaría**

9. La Secretaría recomienda la aprobación general para la preparación de proyectos de la etapa II de los planes de gestión para la eliminación de los HCFC para Argelia, Burundi y Senegal, y la etapa III del plan de gestión para la eliminación de los HCFC para Pakistán, al nivel de financiación que se indica en la sección A2 del Cuadro 1.

### **A3: Preparación de proyectos para proyectos relacionados con los HFC**

#### **Descripción de proyectos**

10. La ONUDI presentó una solicitud para la preparación de proyectos para la conversión de HFC-134a/R-410A a R-290 en la fabricación de aire acondicionado de J.M. Group/Mina Factory de Sudán listada en la sección A3 del Cuadro 1.

11. La presentación incluyó antecedentes sobre la empresa, el consumo de HFC y las actividades clave que se ejecutarán. La presentación de la ONUDI adjunta al presente documento incluye información detallada sobre la solicitud de preparación de proyectos.

### **Comentarios de la Secretaría**

12. La Secretaría examinó la solicitud para la preparación de un proyecto de inversión relativo a HFC para Sudán sobre la base de las directrices para la financiación de proyectos de inversión de HFC contenidos en las decisiones 78/3(g), 79/45, 81/53 y 84/53.<sup>3</sup> La Secretaría observó que la financiación solicitada era congruente con las decisiones pertinentes relativas a la financiación de preparación de proyectos, y entra

---

<sup>1</sup> UNEP/OzL.Pro/ExCom/85/16.

<sup>2</sup> La inclusión de la etapa III de los planes de gestión para la eliminación de los HCFC en el plan administrativo refundido para 2019-2021 solo para los países para los cuales se había aprobado la etapa II de los planes de gestión para la eliminación de los HCFC para cumplir un objetivo de reducción para 2020;

<sup>3</sup> Para considerar propuestas para proyectos de inversión individuales relativos a HFC hasta la 87ª reunión, de acuerdo con los criterios establecidos en las decisiones 78/3 g), 79/45 y 81/53, y dar la prioridad a los proyectos de los sectores de equipos fijos de aire acondicionado, refrigeración comercial y equipos portátiles de aire acondicionado.

dentro de los sectores prioritarios identificados en la decisión 84/53. Esta financiación de preparación de proyectos no estaba incluida en el plan administrativo de la ONUDI para el periodo 2019-2021.

13. A la vista de los requisitos de la decisión 78/3(g) sobre el estado de ratificación de la Enmienda de Kigali, la ONUDI proporcionó una aprobación por correo electrónico de la Dependencia Nacional del Ozono confirmando su interés en el proyecto y solicitó que, debido a la pandemia del COVID-19, se envíe la carta formal con todas las condiciones de la decisión cuando se presente la propuesta de proyecto completa para su consideración por el Comité Ejecutivo en 2021. La ONUDI destacó además que Sudán está comprometido a asegurar la preparación necesaria para la ratificación de la Enmienda de Kigali al Protocolo de Montreal tal pronto como sea posible.

14. Como consecuencia de una petición de información adicional, la ONUDI confirmó que, a pesar del COVID-19, la empresa está operando a plena capacidad y será capaz de comenzar la conversión inmediatamente tras la aprobación de la solicitud de financiación por el Comité Ejecutivo.

### **Recomendación de la Secretaría**

15. La Secretaría recomienda la aprobación general para la preparación de un proyecto de inversión relativo a HFC para Sudán con el nivel de financiación mostrado en la sección A3 del Cuadro 1.

## **SECCIÓN B: ACTIVIDADES RECOMENDADAS PARA CONSIDERACIÓN INDIVIDUAL**

### **B1: Preparación de proyectos para un plan de gestión para la reducción de los HFC**

#### **Descripción de proyectos**

16. La ONUDI presentó solicitudes para la preparación de planes de gestión para la reducción de los HFC para Albania y Jordania como organismo de ejecución principal, con el PNUMA como organismo de ejecución cooperante para Albania tal como se muestra en la sección B1 del Cuadro 1. El PNUMA como organismo de ejecución cooperante para Albania solicitó 31.500 \$EUA más gastos de apoyo al organismo de 4.095 \$EUA en su programa de trabajo para 2020.

#### **Comentarios de la Secretaría**

17. La ONUDI, en su papel de organismo de ejecución principal, proporcionó la descripción de las actividades necesarias para la preparación de una estrategia general para la reducción de los HFC para Albania y Jordania y los costes correspondientes de cada actividad, mediante el formato para solicitudes para preparación de proyectos de etapas de los planes de gestión para la eliminación de los HCFC. Las presentaciones incluían una estimación de las importaciones de HFC y mezclas de HFC para el periodo 2015-2018; consultas y reuniones con los principales actores; desarrollo de la estrategia de reducción de los HFC; desarrollo de un plan de extensión y comunicación; y actividades de mejora de las capacidades relativas a las actuaciones del sector de refrigeración y aire acondicionado y aplicación de la ley. La cantidad solicitada para cada país se basaba en su consumo de nivel básico de HCFC y su nivel de financiación admisible para las actividades de apoyo contenidas en la decisión 79/46 c).

18. Si bien el Comité Ejecutivo observa que el Comité Ejecutivo todavía no ha acordado las directrices para la financiación la preparación de proyectos de los planes de reducción de los HFC, la Secretaría ha examinado aun así la presentación basada en experiencias pasadas analizando solicitudes de preparación similares para planes de gestión para la eliminación de HCFC, y teniendo en cuenta las guías y políticas proporcionadas por el Comité Ejecutivo para dichos proyectos.

19. Tras este examen, la Secretaría observó lo siguiente:

- (a) Albania ratificó la Enmienda de Kigali el 18 de enero de 2019 y Jordania el 16 de octubre de 2019; y ambos serían admisibles para la financiación de preparación de proyectos en línea con la decisión 79/46 b) iii)<sup>4</sup>; los países también han proporcionado cartas de aprobación declarando su intención de adoptar medidas sin dilación en relación con los HFC; y
- (b) Las actividades incluidas en la preparación de proyectos son similares a las requeridas para preparar planes de gestión para la eliminación de los HCFC, exceptuando el estudio sobre el consumo de HFC. Algunas actividades también se asemejan en gran medida a las incluidas en las actividades de apoyo para la reducción de HFC para las que ya se han proporcionado fondos, y que ya se han finalizado en Albania y están en curso en Jordania.

20. La ONUDI clarificó que la preparación de proyectos para la estrategia global para la reducción de HFC para Albania y Jordania se inspiraría de las actividades ejecutadas en el marco de las actividades de apoyo, dado que fueron las primeras actuaciones asociadas con la reducción de HFC y contribuyeron a la ratificación de la Enmienda de Kigali en cada país. La ONUDI destacó que se evitaría la duplicación de las actividades que ya se habían ejecutado.

21. Respecto al estudio del consumo de HFC, la ONUDI explicó que se realizaría mediante consultas a las partes implicadas puesto que actualmente no hay ningún sistema de concesión de licencias y cuotas para los HFC en ninguno de los países. Se aprovecharían los datos del estudio elaborado sobre las sustancias alternativas a las SAO, así como la información recopilada durante la preparación de cada país de la etapa II de su plan de gestión para la eliminación de los HCFC, que incluye la recopilación de datos de los HCFC y de las sustancias alternativas, incluyendo HFC.

22. La Secretaría informó a la ONUDI que no podría realizar una recomendación sobre esta solicitud dado que las directrices para la financiación de estas solicitudes se discutiría en la 85ª reunión.

### **Recomendación de la Secretaría**

23. El Comité Ejecutivo puede considerar oportunas, en línea con las discusiones del punto 9 a) del orden del día, Reseña de las cuestiones identificadas durante el examen de proyectos, y el punto 12 c) del orden del día, Proyecto de directrices para la preparación de planes de reducción de los HFC para países que operan al amparo del Artículo 5 (decisión 84/54(a)), las solicitudes para la preparación de planes de gestión para la reducción de los HFC en los siguientes países:

- a) Albania, por una cantidad de 63.500 \$EUA, más gastos de apoyo al organismo de 4.445 \$EUA; y
- b) Jordania, por una cantidad de 150.000 \$EUA, más gastos de apoyo al organismo de 10.500 \$EUA.

---

<sup>4</sup> La financiación para la preparación de planes nacionales de ejecución para cumplir las obligaciones iniciales de reducción para la reducción de los HFC se podría proporcionar, como pronto, cinco años antes de la fecha de cumplimiento de esas obligaciones, después de que un país haya ratificado la Enmienda de Kigali y sobre la base de las directrices que se hayan de aprobar en el futuro.

**Annex I**

**INSTITUTIONAL STRENGTHENING PROJECT PROPOSALS<sup>1</sup>**

**Libya: Renewal of institutional strengthening**

<b>Summary of the project and country profile</b>		
Implementing agency:		UNIDO
Amounts previously approved for institutional strengthening (US \$):		
	Phase I: Dec-00	157,000
	Phase II: Nov-09 & Apr-10	136,065
	Phase III: Dec-13	136,065
	Phase IV: May-15 & Dec-16	155,115
	Phase V: Jun-18	174,164
	Total:	758,409
Amount requested for renewal (phase VI) (US \$):		174,164
Amount recommended for approval for phase VI (US \$):		174,164
Agency support costs (US \$):		12,191
Total cost of institutional strengthening phase VI to the Multilateral Fund (US \$):		186,355
Date of approval of country programme (CP):		1999
Date of approval of HCFC phase-out management plan:		2015
Baseline consumption of controlled substances (ODP tonnes):		
Annex B, Group III (methyl chloroform) (average 1998-2000)		0.0
Annex C, Group I (HCFCs) (average 2009-2010)		118.38
Annex E (methyl bromide) (average 1995-1998)		94.1
Latest reported ODS consumption (2018) (ODP tonnes) as per Article 7:		
Annex B, Group III (methyl chloroform)		0.00
Annex C, Group I (HCFCs)		76.75
Annex E (methyl bromide)		0.00
	Total:	76.75
Year of reported CP implementation data:		2018
Amount approved for projects (as at December 2019) (US \$):		9,728,702
Amount disbursed (as at December 2018) (US \$):		7,397,304
ODS to be phased-out (as at December 2019) (ODP tonnes):		1,593.8
ODS phased-out (as at December 2018) (ODP tonnes):		890.9

1. Summary of activities and funds approved by the Executive Committee:

<b>Summary of activities</b>	<b>Funds approved (US \$)</b>
(a) Investment projects:	7,691,793
(b) Institutional strengthening:	758,409
(c) Project preparation, technical assistance, training and other non-investment projects:	1,278,500
	Total:
	9,728,702
(d) HFC activities funded from additional voluntary contributions	150,000

<sup>1</sup> Data as at December 2018 are based on document UNEP/OzL.Pro/ExCom/84/20.

Progress report

2. In phase V of the institutional strengthening (IS) project, significant efforts have been made, given the political and security situation in the country, to continue with the implementation of the Montreal Protocol activities. Quotas for 2018-2020 have been established and are monitored on a regular basis. The country's HCFC consumption is below the reduction target. The NOU has been fully staffed and has continued to maintain cooperation with other public institutions through regular bilateral, inter-ministerial and steering committee meetings. Country programme (CP) and Article 7 data reports for 2017 and 2018 have been submitted. The International Ozone Day celebrations were organized in 2018 and 2019. The country's officials attended the Meeting of the Party (MOP) and Open-ended Working Group (OEWG) meetings. Libya has successfully achieved nine out of 14 performance indicators for this phase, while three have been partially achieved and two have not been achieved.

Plan of action

3. In phase VI, the NOU will continue to monitor HCFC consumption to maintain compliance with the licensing and quota system. Quotas will be issued for the years 2021 and 2022 to maintain HCFC consumption in line with the Agreement between the Government and the Executive Committee and with its commitments based on decision XXVII/11. Activities planned for phase VI include: CP and Article 7 data reporting; continued monitoring of the licensing system and allocation of quotas to achieve full control over imports of all HCFCs; continued efforts to introduce a ban on importing or manufacturing HCFC-based equipment; continued cooperation with customs authorities and industry representatives; and facilitation of the process of ratification of the Kigali Amendment through implementation of enabling activities for HFC phase-down. Public awareness activities will include celebration of the International Ozone Day. The country plans to participate in regional network and Montreal Protocol meetings.



## **Anexo II**

### **PROYECTO DE OPINIONES EXPRESADAS POR EL COMITÉ EJECUTIVO SOBRE LA RENOVACIÓN DE LOS PROYECTOS DE FORTALECIMIENTO INSTITUCIONAL PRESENTADOS A LA 85ª REUNIÓN**

#### **Libia**

1. El Comité Ejecutivo examinó el informe presentado con el pedido para la renovación del proyecto de fortalecimiento institucional para Libia (fase VI) y tomó nota con beneplácito de que Libia había notificado los datos de consumo de SAO de 2017 y 2018 en virtud del Artículo 7 del Protocolo de Montreal a la Secretaría del Ozono y los datos del programa de país a la Secretaría del Fondo, que indican que el país cumple con el programa de eliminación del Protocolo de Montreal y con el plan de acción para volver a la situación de cumplimiento indicado en la decisión XXVII/11. El Comité Ejecutivo reconoció que la Dependencia Nacional del Ozono ya cuenta con todo el personal contratado, a pesar de la situación política y de seguridad actual del país. Se han establecido cuotas anuales de consumo de HCFC, que se verifican periódicamente. El Comité Ejecutivo expresó su aprecio por los esfuerzos de Libia para ejecutar la etapa I del plan de gestión para la eliminación de los HCFC y las actividades de apoyo para la reducción de HFC y tiene la esperanza de que Libia mantenga el consumo de HCFC por debajo del objetivo de reducción y permanezca en situación de cumplimiento con los objetivos de eliminación del Protocolo de Montreal y sus compromisos según la decisión XXVII/11.



UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION

# UNIDO WORK PROGRAMME

Presented to the 85<sup>th</sup> Meeting of the Executive Committee of the Multilateral Fund

## Introduction

The UNIDO Work Programme (WP) for the consideration of the 85<sup>th</sup> Meeting of the Executive Committee (ExCom) of the Multilateral Fund (MLF) has been prepared following the Government requests as well as based on ongoing and planned activities. The Work Programme will support the implementation of UNIDO's three year Rolling Business Plan 2020-2022.

The 85<sup>th</sup> UNIDO WP is addressing preparatory assistance and institutional strengthening requests.

Preparatory assistance is submitted for the 85<sup>th</sup> Executive Committee Meeting consideration for Algeria, Burundi and Senegal to enable the countries to overview and update data necessary for the launch and implementation of HPMP Stage II. Also, preparatory assistance is submitted for the 85<sup>th</sup> Executive Committee Meeting consideration for Pakistan to enable the country to overview and update data necessary for the launch and implementation of HPMP Stage III. UNIDO is submitting preparatory assistance for HFC phase-down plans for Albania and Jordan to assist the countries with the implementation of the next phases of the Kigali Amendment to the Montreal Protocol.

Institutional strengthening extension request is submitted based on the country request for Libya.

As per decision 81/31(a), Enabling activities for HFC phase-down were approved with a duration of 18 months, however if needed, that period can be extended for additional 12 months, when an official request is submitted<sup>1</sup>. UNIDO has received requests from Jordan and Qatar, requesting the duration of the implementation period to be extended for additional 12 months. The reasons for the extensions are provided in Section 3.

The UNIDO Work Programme for the consideration of the 85<sup>th</sup> ExCom Meeting comprises the following sections:

- **Section 1:** Consolidated list of activities foreseen for the above requests by project types and country;
- **Section 2:** Project concepts indicating details and funding requirements; and
- **Section 3:** Requests for extension of the duration of the Enabling activities for HFC phase down.

---

<sup>1</sup> With this Work Programme are submitted extension requests for *Enabling activities for HFC phase-down* approved at the 82<sup>nd</sup> meeting. *Enabling activities for HFC phase-down* approved at earlier meetings that have already approved 30 months duration, but cannot be completed on time due to the pandemic, are not part of this Work Programme and are treated separately.

Funding is requested as follows:

- Preparatory assistance funding for HPMP Stage II in Algeria, Burundi and Senegal<sup>2</sup> and for HPMP Stage III for Pakistan amounting to US\$ 353,100 (including US\$ 23,100 representing 7.0 % agency support costs);
- Preparatory assistance funding for HFC phase-down plans in Albania and Jordan amounting to US\$ 228,445 (including US\$ 14,945 representing 7.0% agency support costs);
- Preparatory assistance funding for HFC project in Sudan amounting to US\$ 32,100 (including US\$ 2,100 representing 7.0% agency support costs)
- Institutional strengthening project amounting to US\$ 186,355 (including US\$ 12,191 representing 7.0 % agency support costs).

**Total: US\$ 800,000 (including US\$ 52,336 agency support cost).**

---

<sup>2</sup> The Project Concepts for Burundi and Senegal are included in the Lead Agency (UN Environment) Work Programme.

## SECTION 1

Country	MLF HCFC Status	Type	Substance	Sector and Sub-Sector	Title of Project	Total amount USD	A.S.C.	Total (incl ASC) USD	A.S.C. %	P.D.	Remarks
<b>Preparatory Assistance for HPMP</b>											
Algeria	Non-LVC	PRP	HCFC-141b	FOA-Rigid PU foam	Preparation of Stage II HPMP	50,000	3,500	53,500	7%	24	
Algeria	Non-LVC	PRP	HCFC-22	REF-Manufacturing	Preparation of Stage II HPMP	50,000	3,500	53,500	7%	24	
Algeria	Non-LVC	PRP	HCFC-22	Overarching	Preparation of Stage II HPMP	60,000	4,200	64,200	7%	24	
Burundi	LVC	PRP	HCFC-22	Overarching	Preparation of Stage II HPMP	10,000	700	10,700	7%	24	In cooperation with UN Environment. Project concept is in UN Environment Work Programme.
Pakistan	Non-LVC	PRP	HCFC-141b	Foam	Preparation of Stage III HPMP	50,000	3,500	53,500	7%	24	In cooperation with UN Environment.
Pakistan	Non-LVC	PRP	HCFC-22	REF-Air Conditioning	Preparation of Stage III HPMP	50,000	3,500	53,500	7%	24	In cooperation with UN Environment.
Pakistan	Non-LVC	PRP	HCFC-22	Overarching	Preparation of Stage III HPMP	40,000	2,100	32,100	7%	24	In cooperation with UN Environment.
Senegal	Non-LVC	PRP	HCFC-22	Overarching	Preparation of Stage II HPMP	20,000	1,400	21,400	7%	24	In cooperation with UN Environment. Project concept is in UN Environment Work Programme.
<b>SUBTOTAL</b>						<b>330,000</b>	<b>23,100</b>	<b>353,100</b>			
<b>Preparatory Assistance for HFC Phase-Down Plans</b>											
Albania	LVC	PRP	HFC	SEV	Preparation of HFC phase-down plan	63,500	4,445	67,945	7%	24	In cooperation with UN Environment.
Jordan	Non-LVC	PRP	HFC	SEV	Preparation of HFC phase-down plan	150,000	10,500	160,500	7%	24	
<b>SUBTOTAL</b>						<b>213,500</b>	<b>14,945</b>	<b>228,445</b>			

Country	MLF HCFC Status	Type	Substance	Sector and Sub-Sector	Title of Project	Total amount USD	A.S.C.	Total (incl ASC) USD	A.S.C. %	P.D.	Remarks
<b>Preparatory Assistance for Demonstration Projects – Based on Executive Committee Decision 78/3 (g)</b>											
Sudan	Non-LVC	PRP	HFC	AC manufacturing	Project preparation for HFC-related projects in the manufacturing of air-conditioning units at J.M. Group/Mina factory to gain experience in ICCs and IOCs associated with the phase-down of HFCs	30,000	2,100	32,100	7%	24	
<b>SUBTOTAL</b>						<b>30,000</b>	<b>2,100</b>	<b>32,100</b>			
<b>Institutional Strengthening</b>											
Libya	Non-LVC	INS	All	SEV	Institutional strengthening	174,164	12,191	186,355	7%	24	
<b>SUBTOTAL</b>						<b>174,164</b>	<b>12,191</b>	<b>186,355</b>			
<b>GRAND TOTAL</b>						<b>747,664</b>	<b>52,336</b>	<b>800,000</b>			

## SECTION 2

### PROJECT CONCEPT - Algeria

#### MULTILATERAL FUND FOR THE IMPLEMENTATION OF THE MONTREAL PROTOCOL HPMP PROJECT PREPARATION REQUEST FORM HPMP (Overarching + Inv)

##### Part I: Project Information

<b>Project title:</b>	Stage 2 - HCFC Phase-out Management Plan (preparation)	
<b>Country:</b>	Democratic and Popular Republic of Algeria	
<b>Lead implementing agency:</b>	UNIDO	
<b>Implementation period:</b>	2020 –2021	
<b>Funding requested:</b>		
<b>Agency</b>	<b>Sector</b>	<b>Funding requested (US \$)*</b>
UNIDO	Overarching	60,000
UNIDO	INV - Foam	50,000
UNIDO	INV - REF	50,000

\*Details should be consistent with information provided in the relevant sections below.

##### Part II: Prerequisites for submission

Item	Yes	No
1. Official endorsement letter from Government specifying roles of respective agencies (where more than one IA is involved)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Written confirmation – balances from previous PRP funding approved for stage I HPMP had been returned / will be returned ( <b>Decision 71/42(i)</b> )	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> <li>Specify meeting at which PRP funding balance had been returned/will be returned</li> </ul>	Stage I PRP funding balance was returned to the MLF at 67 and 69 ExCom meeting.	

##### A. Information required to support PRP funding (Overarching strategy)

<b>1. Montreal Protocol compliance target to be met in <input type="checkbox"/> stage II / <input checked="" type="checkbox"/> stage III of the HPMP</b>			
<b>Phase-out commitment (%)</b>	67.5%	<b>Year of commitment</b>	2025
<input type="checkbox"/> Servicing only		<input type="checkbox"/> Manufacturing only	<input checked="" type="checkbox"/> Servicing and manufacturing
<b>2. Brief background on previous stage of the HPMP</b>			
<ul style="list-style-type: none"> <li>Please provide a brief background on the previous stage of the HPMP, when it was approved, a brief description of the progress in implementation of the previous stage of the HPMP to demonstrate that substantial progress had been made.</li> </ul>			
<p>The 66th Meeting of the Executive Committee of the Multilateral Fund for the implementation of the Montreal Protocol (MLF) approved the HCFC phase-out management plan (HPMP) Stage I for the period of 2010 to 2017 to reduce consumption by 20%, with UNIDO as the lead implementing agency. Algeria's starting point for aggregate reductions in its HCFC consumption is the same as its HCFC baseline consumption of 62.1 ODP tonnes (ODPt). The Twenty Fourth Meeting of the Parties which took</p>			

place in Geneva November 12-16, 2012 adopted Decision XXIV/16 with regard to the request of Algeria to change its consumption in 2009 to 60.35 ODPt and for 2010 to 63.88 with a resulting baseline of 62.1 ODPt and communicated to Algeria by the Ozone Secretariat on December 14, 2012. The analysis of the data by substance and by sector showed that HCFC-22 is used almost entirely in the RAC sector and is the most predominant ODS in metric terms. HCFC-141b is used in the servicing sector for flushing, but was banned in 2015. Algeria has implemented strict controls on ODS through its national legislative structure. In accordance with Decision IX/8 of the Parties, Algeria introduced an ODS control system for ODS users, and established ODS import and monitoring procedures as well as policies for discouraging the use of ODS through its awareness activities. A quota system has been established in order to meet the ODS phase-out schedules set by the Montreal Protocol. In 2019, the committee requested UNIDO to submit a verification report as the lead implementing agency.

Algeria has not conducted a national inventory of HFCs and/or a survey on alternatives to ODS. Therefore, there is no reliable data on the current supply and consumption of HFC and ODS alternatives nor future projections of growth patterns by substances and/or sector. Known used alternatives can be obtained from the HPMP, stage I conversions of one foam manufacturing enterprise (Cristor – from HCFC-141b to cyclopentane technology/hydrocarbons) and one assembler of air-conditioning equipment (Condor – from HCFC-22 to HFC-32). Both conversions have been completed.

### 3. Current progress in implementation of previous stage of the HPMP

Activity	Description	Implementing agency
HCFC-141b phase-out at Cristor	Financially completed	UNIDO
HCFC-22 phase-out at Condor	Final stages of completion	UNIDO
Phase-out of HCFC-141b used as a solvent	The ban on HCFC-141b pure was implemented before the activity to convert four of the largest users to the use of a technology of recycling the solvent between 10 and 30 times, depending on the degree of impurity, by using a kit and a recovery cylinder. Without this technology, users would normally revert to using the same refrigerant that is in the system to flush the circuits and then in most cases vent it to the atmosphere. Expected completion date 12/2020.	UNIDO
Refrigeration service sector	The implementation of activities under this item have been delayed due to changes at the NOU.	UNIDO
Legal/regulatory framework	Same comment as refrigeration service sector	

### 4. Overview of current HCFC consumption in metric tonnes by substance (last three years)

Substance	Sector	2016	2017	2018
HCFC-22	Manufacturing-Service	24.16	28.52	30.13
HCFC-141b pre-blended polyols	Manufacturing-Foam PU			

### 5. Based on the consumption data given above, please provide a description of the sector/sub-sector that use HCFCs in the country, including a short analysis and explanation of the consumption trends (i.e., increasing or decreasing)

HCFC consumption is used by both manufacturing and servicing. The consumption for 2016-2018 has been below the reduction targets of the Montreal Protocol and the agreement between Algeria and the Executive Committee. However, it is fluctuating depending on the economic development, local political situation and due to imports in one year, which might be used in subsequent years (stockpiling). The new



survey mentioned in the action plan below will help to identify the consumption in the sub-sectors and which AC manufacturers are buying HCFC-22 from refrigerant distributors rather than importing directly.

**6. Description of information that needs to be gathered and updated. Explain why this has not been undertaken during preparation for the previous stage of the HPMP.**

<b>Information needed</b>	<b>Description</b>	<b>Agency</b>
Updated sectoral consumption information	Review available data and collect additional sector-specific data through questionnaires and interviews. There were no recent surveys done due to a period of NOU inactivity prior to 2018. Same reason applies to other items below.	UNIDO
Market profile of HCFC and alternatives-based equipment by sector	Determine the equipment market landscape, for both locally manufactured and imported units, for HCFCs and other alternatives, especially ozone friendly low-GWP technologies, and incorporate results into the HPMP in stage II.	UNIDO
Consumption data at PU foam and Spray Foam companies and current technology	Update consumption data at PU foam and Spray Foam companies and develop investment projects	UNIDO
Stakeholders' consultations	Identify and discuss with the relevant stakeholders, possible ways of reducing the current consumption of HCFCs in the country.	UNIDO
New information on ODS regulations	Review existing legislation and identify gaps and need for new legislation, amendments and policy development.	UNIDO
Information about the licensing system	The manual licensing system needs to be digitized for quick and efficient control and to facilitate the process for importers. An electronic system will also help to integrate the HFCs in the control process.	UNIDO

**7. Activities to be undertaken for project preparation and funding (overarching).**

<b>Activity</b>	<b>Indicative funding (US \$)</b>	<b>Agency</b>
Updated data on HCFC consumption in manufacturing and servicing sector; and inventory of HCFC based equipment	15,000	UNIDO
Identify the market profile of HCFC-based equipment and equipment depending on the alternatives especially low GWP technologies	15,000	UNIDO
Consultant to conduct surveys, interviews and consultations with key stakeholders including importers, wholesalers, service workshops, end-users, technology providers, training	30,000	UNIDO

institutes, academia, RAC and consumer associations, NGOs, relevant Government bodies and to draft the non-investment components of the HPMP stage II overarching strategy.		
<b>TOTAL</b>	<b>60,000</b>	
<b>8. How will activities related to implementation of the Kigali Amendment to phase down HFCs be considered during project preparation for stage II of the HPMP?</b>		
Algeria needs to implement a plan of HCFC reductions in the manufacturing and servicing sectors. The strategy will be based on updating the existing policies and regulations and strengthening their implementation through promotion and monitoring, as well as the development and capacity building of stakeholders in the refrigeration industry to support the adoption of appropriate ozone and climate friendly alternative technologies. Algeria is committed, to the extent possible, to phase out remaining HCFC consumption while increasing the use of low-GWP alternatives.		
<b>9. How will the Multilateral Fund gender policy be considered during project preparation?</b>		
The sector assessments that will be conducted will incorporate an assessment of the application of gender mainstreaming principles in that sector. All reports and roadmaps that will be developed and produced within this PRP will include a section with specific recommendations related to reinforcing gender mainstreaming aspects in line with the Multilateral Fund gender policy. Budget of each component of HPMP Stage II to be prepared, will take into account allocations for the proposed gender activities (e.g., capacity building activities for female technicians). In addition, during the implementation phase, indicators related to various activities (e.g. no. of trainees, meeting participants, etc.) will be segregated by gender.		

**B. Information required for PRP funding request for investment projects as part of the HPMP – Air-conditioning sector**

<b>1. Agency:</b>		UNIDO			
<b>2. Sector:</b>		AC			
<b>3. HCFC consumption in item #2 reported under country programme (CP) data?</b>		<input type="checkbox"/> Yes, please specify reported amount and year: <input checked="" type="checkbox"/> NO			
<b>4. Information on remaining eligible consumption</b>					
<b>Substance</b>		<b>Remaining eligible consumption (ODP tonnes)</b>			
HCFC-22		46.1 (Max allowable)			
<b>5. Information on enterprise(s) for which funding is being sought</b>					
Enterprise	Year established	HCFC consumption (ODP tonnes) (last three years)			HCFC phase-out to be achieved
		2017	2018	2019	
AC Sector: The following enterprises were identified during HPMP preparation in 2010. The information needs to be updated through a survey. The entire AC manufacturing sector to be revisited and examined according to MP eligibility criteria (cut of date, consumption of ODS for last three years, list of baseline equipment, ownership and market realization etc.).					
SINTRAX (Allab)	1997	TBA	TBA	TBA	TBA
SOFREL (Cobra)	2006	TBA	TBA	TBA	TBA
SODINCO	2000	TBA	TBA	TBA	TBA
ENIEM	1983	TBA	TBA	TBA	TBA
<b>6. Activities to be undertaken for preparation of the investment project and funding requested</b>					
Activity		Indicative funding (US \$)			
Checking consumption for 2016-2018		10,000			

Site visit to check production lines and tools. Surveys and interviews. Team of consultants to conduct surveys, interviews and consultations with key stakeholders to verify the eligibility for funding and draft the investment components of the HPMP stage II.	15,000
Identification of technology & equipment needed	10,000
Enhancement of the technical capacity of the Montreal Protocol focal point (NOU) to carry out above mentioned Reviewing, evaluating, analysing and verifying technical and techno-economic data and capacity building and expertise in the field of application of the gender policy of the Multilateral Fund.	5,000
Project document drafting	10,000
<b>TOTAL</b>	<b>50,000</b>

**C. Information required for PRP funding request for investment projects as part of the HPMP – Foam manufacturing sector**

<b>1. Agency:</b>		UNIDO			
<b>2. Sector:</b>		Foam Manufacturing			
<b>3. HCFC consumption in item #2 reported under country programme (CP) data?</b>		<input type="checkbox"/> Yes, please specify reported amount and year: <input checked="" type="checkbox"/> NO			
<b>4. Information on remaining eligible consumption</b>					
<b>Substance</b>			<b>Remaining eligible consumption (ODP tonnes)</b>		
HCFC-141b pre-blended polyols			-		
<b>5. Information on enterprise(s) for which funding is being sought</b>					
Enterprise	Year established	HCFC consumption (ODP tonnes) (last three years)			HCFC phase-out to be achieved
		2017	2018	2019	
Pre-blended polyols: The following enterprises were identified during HPMP preparation in 2010. The information needs to be updated through a survey. The entire foam sector to be revisited and examined according to MP eligibility criteria (cut of date, consumption of ODS for last three years, list of baseline equipment, ownership and market realization etc.).					
INDEFRIGO	1964	TBA	TBA	TBA	TBA
SAEI	1976	TBA	TBA	TBA	TBA
SIMAFE	1993	TBA	TBA	TBA	TBA
INC Royal	2000	TBA	TBA	TBA	TBA
BETICHE	1993	TBA	TBA	TBA	TBA
CHETIOUI	2004	TBA	TBA	TBA	TBA
FROID CLIMAT	1983	TBA	TBA	TBA	TBA
EURL CMF	2004	TBA	TBA	TBA	TBA
<b>6. Activities to be undertaken for preparation of the investment project and funding requested</b>					
<b>Activity</b>			<b>Indicative funding (US \$)</b>		
Checking consumption for 2016-2018			10,000		
Site visit to check production lines and tools. Surveys and interviews. Team of consultants to conduct surveys, interviews and consultations with			15,000		

key stakeholders to verify the eligibility for funding and draft the investment components of the HPMP stage II.	
Identification of technology & equipment needed	10,000
Enhancement of the technical capacity of the Montreal Protocol focal point (NOU) to carry out above mentioned Reviewing, evaluating, analysing and verifying technical and techno-economic data and capacity building and expertise in the field of application of the gender policy of the Multilateral Fund.	5,000
Project document drafting	10,000
<b>TOTAL</b>	<b>50,000</b>

## PROJECT CONCEPT – Pakistan

### MULTILATERAL FUND FOR THE IMPLEMENTATION OF THE MONTREAL PROTOCOL HPMP PROJECT PREPARATION REQUEST FORM HPMP (Overarching + Inv)

#### Part I: Project Information

<b>Project title:</b>	PAKISTAN HPMP STAGE III PREPARATION	
<b>Country:</b>	PAKISTAN	
<b>Lead implementing agency:</b>	UNIDO	
<b>Cooperating agency (1):</b>	UNEP	
<b>Implementation period:</b>	2021-2030	
<b>Funding requested:</b>		
<b>Agency</b>	<b>Sector</b>	<b>Funding requested (US \$)*</b>
UNIDO	INV - Foam PU	50,000
UNIDO	INV - AC	50,000
UNIDO	Overarching	40,000
UNEP	Overarching	10,000

\*Details should be consistent with information provided in the relevant sections below.

#### Part II: Prerequisites for submission

Item	Yes	No
1. Official endorsement letter from Government specifying roles of respective agencies (where more than one IA is involved)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Written confirmation – balances from previous PRP funding approved for stage II HPMP had been returned / will be returned ( <b>Decision 71/42(i)</b> )	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PRP funds for HPMP Stage II were returned at the 81 <sup>st</sup> and 82 <sup>nd</sup> meeting.		

#### A. Information required to support PRP funding (Overarching strategy)

<b>3. Montreal Protocol compliance target to be met in <input type="checkbox"/>stage II / <input checked="" type="checkbox"/>stage III of the HPMP</b>			
<b>Phase-out commitment (%)</b>	97.5%	<b>Year of commitment</b>	2030
<input type="checkbox"/> Servicing only		<input type="checkbox"/> Manufacturing only	<input checked="" type="checkbox"/> Servicing and manufacturing
<b>4. Brief background on previous stage of the HPMP</b>			
<ul style="list-style-type: none"> <li>Please provide a brief background on the previous stage of the HPMP, when it was approved, a brief description of the progress in implementation of the previous stage of the HPMP to demonstrate that substantial progress had been made.</li> </ul>			
<p>Pakistan's HPMP stage II was approved by ExCom 76 in May 2016 to reduce the HCFC consumption to a sustained level of 124.055 ODP tonnes by 1 January 2020, with UNIDO as lead and UNEP as cooperating agency. Tranche 1 was approved for both agencies in May 2016. Tranche 2 was approved by ExCom 83 in May 2019 for both Implementing Agencies. Tranche 3 is scheduled for 2020 and contains both IAs's components as well. Pakistan is in compliance with the Montreal Protocol provisions and the Agreement with the Executive Committee. Pakistan has an enforceable import/export licensing and quota system for HCFCs in place, which is operational, effective and capable of ensuring compliance with the Montreal Protocol phase-out provisions for HCFCs. UNIDO as well as UNEP's preparatory funds for HPMP stage II have fully been disbursed. The endorsement from the Government requesting UNIDO as lead agency and UNEP as cooperating agency to prepare</p>			

HPMP stage III has been received.				
<b>5. Current progress in implementation of previous stage of the HPMP</b>				
<b>Activity</b>	<b>Description</b>			<b>Implementing agency</b>
Manufacturing-Foam PU	Implementation of umbrella project in thermoware sub-sector in progress. Equipment delivered preparations for installations, commissioning, start-up trials and prototyping in progress. Implementation of umbrella project in sandwich panels sub-sector; procurement of equipment is temporary on hold.			UNIDO
Manufacturing-AC	Implementation in progress. Equipment have been purchased; the import procedures still ongoing (at this moment). Exact schedule for installation, commissioning, and prototyping is in an advanced stage of discussions. TOR for prototyping prepared; Contracting still to be organized, while following beneficiary's priority planning for this activity and entire technology conversion process.			UNIDO
Manufacturing-Foam XPS	Project approved by 84th ExCom in December 2019. Preparations of Agreement on Implementation procedures and action plan, including principal decision on implementation modalities, in progress.			UNIDO
Refrigeration servicing sector	Advanced refrigerant identifiers delivered			UNIDO
Refrigeration servicing sector	Procurement of training / servicing equipment / tools in progress			UNIDO
Legal/regulatory framework	Regulatory updates in HCFC trade control frameworks in progress. Capacity building of Customs and Enforcement officers going on			UNEP
Refrigeration servicing sector	Strengthening capacity in the refrigeration servicing sector completed partly			UNEP
Refrigeration servicing sector	Awareness and outreach activities completed partly.			UNEP
<b>6. Overview of current HCFC consumption in metric tonnes by substance (last three years)</b>				
<b>Substance</b>	<b>Sector</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
HCFC-141b	Manufacturing-Foam PU	552.89	504.16	298.67
HCFC-22	Manufacturing-AC	864.00	817.30	750.00
HCFC-22	Manufacturing-Foam XPS	11.00	30.68	13.30
HCFC-22	RAC servicing	1,927.00	1,848.86	2043.25
HCFC-142b	Manufacturing-Foam XPS	16.50	46.02	46.00
<b>7. Based on the consumption data given above, please provide a description of the sector/sub-sector that use HCFCs in the country, including a short analysis and explanation of the consumption trends (i.e., increasing or decreasing)</b>				
HCFC consumption is below the reduction targets of the Montreal Protocol and the agreement between Pakistan and the Executive Committee. However, it is fluctuating depending on the economic development and due to imports in one year, which might be used in subsequent years (stock-piling).				

<b>8. Description of information that needs to be gathered and updated. Explain why this has not been undertaken during preparation for the previous stage of the HPMP.</b>		
<b>Information needed</b>	<b>Description</b>	<b>Agency</b>
Updated data on HCFC consumption in manufacturing/servicing sector	Review available data and refresh on the variety of different manufacturing technologies in the foam sector for remaining manufacturing capacities in rigid PU as well as examination of funding eligibility in other relevant subsectors, e.g. Flexible Moulded and Integral Skin subsectors. Collect additional sector-specific data and examine funding eligibility according to MLF Criteria, through questionnaires and interviews.	UNIDO
Updated sectoral consumption information	Review available data and collect additional sector-specific data through questionnaires and interviews	UNIDO
Analysis of types of equipment using HCFCs	Review available data and collect additional equipment data through questionnaires and interviews	UNIDO
New information on ODS regulations	Review existing legislation and identify gaps and need for new legislation, amendments and policy development.	UNEP
Others, specify.	Review available Article 7 and CP data, data from ODS alternatives surveys, enabling activities and progress reports and collect additional data as needed to determine didactic, technical and technological needs for training and awareness raising	UNIDO UNEP
<b>9. Activities to be undertaken for project preparation and funding (overarching).</b>		
<b>Activity</b>	<b>Indicative funding (US \$)</b>	<b>Agency</b>
Consultant(s) to conduct surveys, interviews, consultations and workshops with key stakeholders including importers, wholesalers, service workshops, end-users, technology providers, TVET and training institutes, academia, RAC and consumer associations, NGOs, relevant Government bodies and to draft the HPMP stage III as an overarching strategy and tranche 1 request. Evaluation of different long-term strategies of technology conversion and upgrade of servicing procedures and techniques to follow new developments for sustainable alternatives. Each and all abovementioned reviewing,	40,000	UNIDO

evaluating, analysing and decision-making activities to be carried out in consultation and, where appropriate with, direct involvement of the Montreal Protocol focal point (NOU/MoCC). Implementing agency to serve to follow the decisions of the NOU/MoCC and to facilitate and implement the needs of the NOU/MoCC.		
Consultant, based on the survey result to draft the non-investment components of the HPMP stage III overarching strategy and tranche 1 request in consultation with the Montreal Protocol focal point (NOU/MoCC), other stakeholders and lead implementing agency.	10,000	UNEP
<b>TOTAL</b>	<b>50,000</b>	
<b>10. How will activities related to implementation of the Kigali Amendment to phase down HFCs be considered during project preparation HPMP stage III?</b>		
The overarching strategy will focus on the HCFC phase out while promoting ozone-friendly, climate-friendly and energy-efficient technologies to the extent that this is possible. The strategy will also raise awareness of stakeholders on the Kigali Amendment and its future obligations.		
<b>11. How will the Multilateral Fund gender policy be considered during project preparation?</b>		
Due consideration would be given to the gender policy of the Multilateral Fund during project preparation. Budget of each component of HPMP Stage III to be prepared, will take into account allocations for the proposed gender activities (e.g., capacity building activities for female technicians). Also each project component of HPMP Stage III, in terms of Stakeholders and Participation will ensure that both women and men can provide inputs, access and participate in project activities (e.g., through outreach / invitations of female technicians to participate in capacity building activities).		

**B. Information required for PRP funding request for investment projects as part of the HPMP – Manufacturing of Air Conditioners**

<b>1. Agency:</b>		UNIDO			
<b>2. Sector:</b>		Manufacturing of Air conditioners			
<b>3. HCFC consumption in item #2 reported under country programme (CP) data?</b>		<input checked="" type="checkbox"/> Yes, please specify reported amount and year: 750 MT of HCFC 22 in the year of 2018 <input type="checkbox"/> No			
<b>4. Information on remaining eligible consumption</b>					
Substance			Remaining eligible consumption (ODP tonnes)		
HCFC-22			87.21		
<b>5. Information on enterprise(s) for which funding is being sought</b>					
Enterprise	Year established	HCFC consumption (ODP tonnes) (last three years)			HCFC phase-out to be achieved
		2017	2018	2019	



A group of 19 manufacturers consuming HCFC 22 have been identified in the AC and commercial refrigeration manufacturing sector already in the course of the formulation of the initial overarching strategy. One manufacturer in the sector have been already funded under HPMP Stage II. The rest, as listed below has to be revisited for an update as requested by this MLFS table.					
Orient, Lahore	2005	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
PEL, Lahore	1956	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Digital World Pakistan	2000	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Kentax, Lahore	2002	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
New Allied Electronics	1989	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Shahab Industries	1963	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
SABRO, Islamabad	2003	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
SABRO, Rawalpindi	1958	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP

Petal Engineering	1990	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
PARC	1982	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Waheed Engineering	1992	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
MECO	1956	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Cool Point, Lahore	1999	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Age Co (Pvt.) Ltd	1988	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
PAECO	1971	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
ANZ Insutech Enterprises	1988	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Entire AC and Commercial manufacturing sector which may consume HCFC 22, to be revisited and examined according to MP eligibility criteria (cut of date, consumption of ODS for last three years, list of baseline equipment, ownership and market realization etc.). Enterprises to be selected according to the Government priorities to phase out remaining eligible consumption, 1,585.64 MT (87.21 ODP tonnes)					1,585.64 MT (87.21 ODP tonnes)

<b>6. Activities to be undertaken for preparation of the investment project and funding requested</b>	
Activity	Indicative funding (US \$)
Surveys and interviews. Team of consultants to conduct surveys, interviews and consultations with key stakeholders to verify the eligibility for funding and draft the investment components of the HPMP stage III.	20,000
Consultations with key stakeholders including NOU/MoCC and representatives of the manufacturers in respective manufacturing sectors.: a) Household AC-Manufacturing sector; b) AC and commercial refrigeration manufacturing sector (19 manufacturers consuming HCFC 22 have been identified in the RAC sector already in the course of formulation of the initial overarching strategy). Entire RAC sector has to be carefully re-examined.	10,000
Draft the investment component HPMP Stage III, in the foam sector.	4,500
Reviewing, evaluating, analysing and consultation of each sub-component with the Montreal Protocol focal point (NOU/MoCC).	1,500
Enhancement of the technical capacity of the Montreal Protocol focal point (NOU/MoCC) to carry out above mentioned Reviewing, evaluating, analysing and verifying technical and techno-economic data.	2,000
Enhancement, capacity building and expertise in the field of application of the gender policy of the Multilateral Fund.	2,000
Consolidation of collected techno-economic data and other relevant information and formulation of respective project document.	10,000
<b>TOTAL</b>	<b>50,000</b>

**C. Information required for PRP funding request for investment projects as part of the HPMP – Foam Sector**

<b>1. Agency:</b>	UNIDO
<b>2. Sector:</b>	Foam
<b>3. HCFC consumption in item #2 reported under country programme (CP) data?</b>	<input checked="" type="checkbox"/> <b>Yes</b> , please specify reported amount and year: 298.67 MT of HCFC 141b in the year of 2018 ____ <input type="checkbox"/> <b>No</b>
<b>4. Information on remaining eligible consumption</b>	
<b>Substance</b>	<b>Remaining eligible consumption (ODP tonnes)</b>
HCFC-141b	8.11

<b>5. Information on enterprise(s) for which funding is being sought</b>					
<b>Enterprise</b>	<b>Year established</b>	<b>HCFC consumption (ODP tonnes) (last three years)</b>			<b>HCFC phase-out to be achieved</b>
		<b>2017</b>	<b>2018</b>	<b>2019</b>	
A group of 26 manufacturers consuming HCFC 141b have been identified in the foam manufacturing sector already in the course of the formulation of the initial overarching strategy, Major manufacturers in the sector have been already funded under HPMP Stage I and II. The rest, as listed below has to be revisited for an update as requested by this MLFS table.					
Zulquarnain Corp.	2004	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Mehran Plastic Ind	1985	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Arm Bros	1983	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Pifcom	1975	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Plasticrafter	1948	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Pakistan Plastic Ind	1991	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Thermocraft Engg.	1988	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
ANZ Insutech	1996	To be updated in	To be updated in	To be updated in	To be updated in the course of this PRP

		the course of this PRP	the course of this PRP	the course of this PRP	
Islamuddin & Sons	1980	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Pak Motors	1953	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Ittehad Insulation	2002	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Razi Sons	1948	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Simpson Wires	1971	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Tariq Engineering	1973	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Workman	1980	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP	To be updated in the course of this PRP
Entire foam sector, which may consume HCFC 141b to be revisited and examined according to MP eligibility criteria (cut of date, consumption of ODS for last three years, list of baseline equipment, ownership and market realization etc.). Enterprises to be selected according to the Government priorities to phase out remaining eligible consumption, 73.73 MT (8.11 ODP tonnes)					73.73 MT (8.11 ODP tonnes)
<b>6. Activities to be undertaken for preparation of the investment project and funding requested</b>					
Activity			Indicative funding (US \$)		
Surveys and interviews. Team of consultants to conduct surveys, interviews and consultations with key			20,000		

stakeholders to verify the eligibility for funding and draft the investment components of the HPMP stage III.	
Consultations with key stakeholders including NOU/MoCC and representatives of the manufacturers in respective manufacturing sectors.: a) PU foam sector (subsectors of Flexible Moulded, Integral Skin and Spray foams as well as eligible residual industries in Sandwich Panels or block sub-sectors. (26 manufacturers consuming HCFC 141b have been identified in the foam manufacturing sector already in the course of formulation of the initial overarching strategy). Entire foam sector has to be carefully re-examined.	10,000
Draft the investment component HPMP Stage III, in the foam sector.	4,500
Reviewing, evaluating, analysing and consultation of each sub-component with the Montreal Protocol focal point (NOU/MoCC).	1,500
Enhancement of the technical capacity of the Montreal Protocol focal point (NOU/MoCC) to carry out above mentioned Reviewing, evaluating, analysing and verifying technical and techno-economic data.	2,000
Enhancement, capacity building and expertise in the field of application of the gender policy of the Multilateral Fund.	2,000
Consolidation of collected techno-economic data and other relevant information and formulation of respective project document.	10,000
<b>TOTAL</b>	<b>50,000</b>

## PROJECT CONCEPT – Albania

### MULTILATERAL FUND FOR THE IMPLEMENTATION OF THE MONTREAL PROTOCOL HFC PROJECT PREPARATION REQUEST FORM HFC Phase-down Management plan (OVERARCHING)

#### Part I: Project Information

<b>Project title:</b>	HFC Phase-Down Management Plan Preparation	
<b>Country:</b>	Albania	
<b>Implementing</b>	UNIDO as lead agency and UNEP as cooperating agency	
<b>Implementation period:</b>	July 2020 – June 2022	
<b>Funding requested:</b>		
<b>Agency</b>	<b>Sector</b>	<b>Funding requested (US \$)*</b>
UNIDO	Overarching	63,500
UNEP	Overarching	31,500

\*Details should be consistent with information provided in the relevant sections below.

#### Part II: Prerequisites for submission

Item	Yes	No
1. Official endorsement letter from Government for choice of agency	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Country has ratified the Kigali Amendment	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### A. Information required to support PRP funding (Overarching strategy)

<p><b>1. Brief background on previous activities related to the Kigali amendment and the HFC phase-down</b></p> <ul style="list-style-type: none"> <li>Please provide a brief background on the Enabling Activities project, when it was approved, a brief description of the progress in implementation and expected end date.</li> </ul>		
<p>Following the outcomes of the 80th Meeting of the Executive Committee of the Multilateral Fund for the Implementation of the Montreal Protocol and subsequently Decision 80/50(d), funding was approved for Albania for Enabling Activities (EA) for HFC phase-down towards the early ratification of the Kigali Amendment. The main objective of the EA project was to prepare Albania for the ratification of the Kigali Amendment to the Montreal Protocol, considering HFC phase-down need in the country. Legal documents, stakeholder engagement, and awareness raising events have been completed in the project, which led to the ratification of the Kigali Amendment on 18 January 2019. Albania operationally completed the EA project on 31 July 2019. Albania has collected preliminary data for HFC for some years. The HFC related legal framework and its implementation for licensing the import and export of new, used, recycled and reclaimed HFC will be put into place by January 2021.</p>		
<p><b>2. Current progress in implementation of Enabling Activities for HFC phase-down</b> <b>Budget: 95,000 USD</b></p>		
<b>Activity</b>	<b>Description</b>	<b>Implementing agency</b>
Institutional arrangements	Reviewing operating codes and standards for the efficient use of HFCs and ODS alternatives in the entire value chain; Training of technicians on reducing refrigerant emissions as well as on the use of flammable and toxic low-GWP alternatives	UNIDO
Licensing systems	Preparing harmonized tariff codes according to HFCs commitments, with special attention to HFC blends and the alignment with the f-gas regulation	UNIDO
Preparation for national strategies	Assessment of the refrigeration and air-conditioning servicing sector; Survey to cover the sectors that have not been analyzed in the ODS alternatives survey;	UNIDO

	Identification of policies and regulations to facilitate the phase-down of HFCs and the introduction of low-GWP alternative technologies				
<b>3. Description of information that needs to be gathered and updated. Explain why this has not been undertaken during preparation for the previous stage of the HPMP.</b>					
<b>Information needed</b>	<b>Description</b>				<b>Agency</b>
Updated ODS alternatives data	Review available data and collect additional sector-specific data for the year 2019 through questionnaires and interviews as this was not included in the enabling activities and previous ODS alternatives data collection only covered data until 2018.				NOU
<b>4. Overview of estimated import of ODS alternatives 2015 – 2018 in kg</b>					
<b>Substance</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	
HCFC					
HCFC	46,971	67,967	54,346	72,257	
HFC					
HFC 134a	65,298	99,472	131,731	202,146	
HFC blends					
R-152a	500	950	1,100	1,200	
R-227ea	600	800	800	820	
R-32	530	1,582	1,708	5,875	
R 404A	38,819	46,238	58,081	78,282	
R 407C	2,476	2,597	5,808	12,048	
R 410A	25,980	40,350	60,350	123,897	
R 507A	56	875	1,447	8,172	
HFC total	134,259	192,864	261,025	432,440	
<b>5. Based on the consumption data given above, please provide a description of the sector/sub-sector that use HFCs in the country, including a short analysis and explanation of the consumption trends (i.e., increasing or decreasing)</b>					
<p>The HCFC baseline of Albania is 6.0 ODP tonnes with the refrigeration and air-conditioning servicing sector only.</p> <p>The preliminary ODS alternative indicates that imports of HCFC from 2013 to 2014 show a decrease of 65% of the total import. For the period 2017 – 2018 on the other hand imports show an increase of 33%. When it comes to HFC imports, we have an increasing pattern running from the year 2015 to 2018. The increase from 2015 to 2016 amounts to 43 % of the total yearly consumption; from 2016 to 2017 amounts to 35 % of the total yearly consumption and subsequently from the year 2017 to 2018 there is an increase of 68 % of the total yearly consumption in the country. From the year 2015 to 2018 there has been an overall increase of 227 % of HFC consumption in the country.</p> <p>HFCs are the main HCFC alternatives which are currently imported in Albania. There is a growth of 11 times in overall HFC consumption during the years 2012-2018. Use of other alternatives such as hydrocarbons or natural refrigerants is currently limited in the country. HFC-134A has been the main substance and represented 46% of the total imports in the country followed by R-410A with 29% of the total imports and R-404A with 18% of the total imports.</p> <p>The data shows that the stationary air-conditioning sector is the most commonly widespread within the country comprising 39.3 % of the HFC consumptions. The commercial sector, the second most commonly used within the country, comprises 34.8 % of the HFC consumption. The MAC sector is the third most commonly used within the country, comprising 18.1 % of the HFC consumption.</p> <p>Small self-contained air-conditioning and small split air-conditioning are two different market sectors. The first sector includes equipment used for the cooling of enclosed spaces in households and commercial buildings, whereas the second sector includes units used for single rooms in commercial and residential buildings. The small self-contained air-conditioning sector consists of window-mounted, portable, and through-the-wall units.</p> <p>Initial funding is requested for preparation of the overarching strategy. Once the preparatory funding is approved and based on the requirements, the need for requesting preparatory funding for investment component will be assessed.</p>					
<b>6. Activities to be undertaken for project preparation and funding</b>					
<b>Activity</b>		<b>Indicative funding (US \$)</b>			<b>Agency</b>
1. Stakeholder consultation: 1 (one) consultant to		25,700			UNIDO



<p>prepare and conduct questionnaires and interviews with relevant stakeholders to update available data as well as measure new data on HFCs and other ODS alternatives, involving Customs in data collection and exchange; 1 (one) consultant to conduct interviews, organizing 4 workshops and 6 consultation meetings with relevant stakeholders (including government, private sector, civil society organisations, vocational centres, academic communities) for the integration of national regulations and procedures for KA implementation and consolidation of technical capacities in the institutions involved in HFC control</p>	<p>National consultant 5 months x 2,300 = 11,500</p> <p>Preparation and collection of questionnaires and interviews Data updating and analysis</p> <p>4 workshops and 6 meetings as well as related travels 14,200</p>	
<p>2. HFC phase-down strategy development: 2 (two) technical and legal experts to prepare all legal and technical documents, consult all key stakeholders and develop detailed strategy, including assessment of needs to develop/update trainings and certification scheme in use of flammable refrigerants, developing training plan and organizing 4 (four) workshops with main stakeholders and training institutions, including assessments of the needs for enhancing training programs on recovery, recycling and destruction, using complementary data on servicing sector's capacity obtained from survey in HPMP Stage II</p>	<p>31,500</p> <p>National legal consultant 5 months x 2,500 = 12,500</p> <p>National technical consultants: 4.5 months x 2,500 = 11,250</p> <p>HFC phase own strategy consultation and drafting</p> <p>4 workshops 5,250</p> <p>Translation and printing 2,500</p>	UNIDO
<p>3. Communication and outreach plan: Preparation of a comprehensive communication and outreach plan in consultation with key stakeholders including hotel managers, investors, building planners, end-users, consumer associations, RAC associations, private sector, supermarkets, cold chain, media experts etc. The plan will focus on technology and policy awareness raising to influence the investment and user behavior. It will also assess the possible implications of Albania joining the European Union at some stage in future.</p>	<p>16,000</p> <p>National consultant</p> <p>4 months x 2000 = 8000</p> <p>Desk study, survey and interviews Communication and outreach plan including budget for HFC project Preparation of stakeholder consultations Final report with recommendations Liaising with NOU, UNIDO and UNEP to prepare HFC project</p> <p>Stakeholder consultations</p> <p>4 events x 2000 = 8000</p> <p>Hotel managers &amp; end-users Building planners &amp; investors Cold chain &amp; supermarkets Media experts &amp; representatives</p>	UNEP
<p>4. Capacity building activities related to RAC sector activities and enforcement: Review and assessment of innovative tools and approaches to</p>	<p>15,500</p> <p>National consultant</p>	UNEP

<p>build the capacity of relevant actors including OzonAction’s tools related to HFC phase-down, update of training curricula of vocational schools, university and customs, online training and certification tools, participation of key stakeholders in international conferences, review of energy-efficiency and performance standards, case studies in Albanian language, public procurement policies, potential impact of incentives and taxes, gender considerations, HFC-free labeling, equipment inventories / logbooks, potential of not-in-kind alternatives etc.</p>	<p>4,25 months x 2000 = 8,500</p> <p>Desk study, surveys and interviews Review and assessment of innovative tools and approaches Review of training curricula of vocational schools, customs schools and universities Review of energy-efficiency and performance standards Case studies in Albanian language Preparation of stakeholder consultations Final report with recommendation Liaising with NOU, UNIDO and UNEP to prepare HFC project</p> <p>Stakeholder consultations</p> <p>2 events x 2000 = 4000</p> <p>Customs and enforcement officers, environmental inspectors RAC vocational training institutes, RAC associations</p> <p>Participation in international conferences 2 events x 1500 =3000</p>	
<p>5. Validation: Consultations, review and validation of the consolidated overarching strategy</p>	<p>6,300</p>	<p>UNIDO</p>
<p><b>TOTAL</b></p>		<p><b>95,000</b></p>
<p><b>7. How will activities related to the stage II of the HPMP implementation be considered during project preparation for the HFC phase-down management plan?</b></p>		
<p>Synergies from ongoing and future HPMP activities will be assessed and integrated into the HFC phase-down management plan development without significant additional costs.</p>		
<p><b>8. How will the Multilateral Fund gender policy be considered during project preparation?</b></p>		
<p>In line with the MLF gender policy contained in ExCom document 84/73, special effort will be made to involve female trainees in vocational schools as well as female technicians for awareness-raising activities as well as training events on non-HFC ODS alternatives. The project preparation will aim to advocate the importance of gender-responsive actions and provisions in developing HFC phase-down plan. This project will provide female maintenance workshop owners, building management company managers, retail store business owners with awareness raising and training events with an emphasis on the energy efficiency, associated national standards, flammability and toxicity of non-HFC ODS alternatives as technology options for non-HFC ODS alternatives.</p>		

## PROJECT CONCEPT – Jordan

### Multilateral Fund FOR THE IMPLEMENTATION OF THE MONTREAL PROTOCOL PROJECT PREPARATION REQUEST FORM HFC Phase-down Management plan (OVERARCHING)

#### Part I: Project Information

<b>Project title:</b>	HFC Phase-Down Management Plan Preparation	
<b>Country:</b>	Jordan	
<b>Implementing agency:</b>	UNIDO	
<b>Implementation period:</b>	July 2020 – June 2022	
<b>Funding requested:</b>		
<b>Agency</b>	<b>Sector</b>	<b>Funding requested (US \$)*</b>
UNIDO	Overarching	150,000

\*Details should be consistent with information provided in the relevant sections below.

#### Part II: Prerequisites for submission

Item	Yes	No
1. Official endorsement letter from Government for choice of agency	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Country has ratified the Kigali Amendment	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### A. Information required to support PRP funding (Overarching strategy)

<b>1. Brief background on previous activities related to the Kigali amendment and the HFC phase-down</b> <ul style="list-style-type: none"> <li>Please provide a brief background on the Enabling Activities project, when it was approved, a brief description of the progress in implementation and expected end date.</li> </ul>		
<p>Following the outcomes of the 82th Meeting of the Executive Committee of the Multilateral Fund for the Implementation of the Montreal Protocol, funding was approved for Jordan for Enabling Activities towards the early ratification of the Kigali Amendment (KA). The main objective of the Enabling Activities is to prepare Jordan for the ratification and implementation of the KA to the Montreal Protocol, considering HFC phase-down in the country. All project activities are advancing well and including a possible extension, the project will be operationally completed by June 2021. Jordan ratified the Kigali Amendment to the Montreal Protocol on 16 October 2019.</p> <p>Jordan has conducted a national inventory of HFCs and a survey on alternatives to ODS financed by CCAC and the MLF. This survey indicates the current supply and consumption of HFC and ODS alternatives and provides future projections of growth patterns by substances and sector in line with the multilateral fund secretariat decision 75/77.</p> <p>Jordan has started to create an enabling environment for the phasedown of HFCs through the Enabling Activities project as well as the ODS alternative survey and inventory. Taking also into consideration that the Kigali Amendment to the Montreal Protocol came into force on the 1st of January 2019, Jordan is ready to take further early action on HFCs and submit preparatory funding request to prepare its HFC phase-down plans. The Enabling activities for HFC phase-down are preparing the ground works on which will be built up a detailed strategy and action plan for HFC phase-down in line with the reduction targets.</p> <p>Initial funding is requested for preparation of the overarching strategy. Once the preparatory funding is approved and based on the requirements, the need for requesting preparatory funding for investment component will be assessed.</p>		
<b>2. Current progress in implementation of Enabling Activities for HFC phase-down</b> <b>Budget: 150,000USD</b>		
<b>Activity</b>	<b>Description</b>	<b>Implementing agency</b>
Activities to support the early ratification of the KA	Coordination with Government representatives Supporting national ratification instruments	UNIDO
Institutional arrangements	Reviewing operating codes and standards for the efficient use of HFCs and ODS alternatives in the entire value chain	UNIDO

Review of licensing systems and data reporting	Preparing harmonized tariff codes according to HFCs commitments, with special attention to HFC blends and review of the national mechanisms used for ODS reporting to include HFCs	UNIDO
Assessment of national barriers and opportunities for the use and further uptake of low- and zero-GWP ODS alternative	Assessment of national barriers and opportunities for the use and further uptake of low- and zero-GWP ODS alternative, with a special focus on the availability and accessibility and their related equipment.	UNIDO
Awareness, communication and dissemination	Awareness raising of stakeholders (public and private sectors) on HFC phase-down and energy efficiency improvement options	UNIDO

### 3. Overview of estimated use of ODS alternatives 2012 – 2015 in Mt

#### Total consumption of HFC and HFC blends in all sectors during the period 2012-2015.

ODS Alternative in (Mt/Year)	Year				Growth Rate 2012-2015 (%)
	2012	2013	2014	2015	
R-134a	693	723.5	714	773	11.5
FM200 (HFC-227ea)	30	30	30	35	16.7
R-404A	232	218	210	235	1.3
R-407C	113	110	105	150	33.6
R-410A	73	94	100	117	60

The table shows a consistent increase in consumption of HFC, HFC blends and other alternatives. Consumption of HFC is primarily dominated by consumption of R-134a, which is used in the refrigeration and air conditioning sector. This increase in HFCs use can be attributed to the growth in population in the wake of Syrian crisis, local market growth and the magnitude of Jordanian exports of RAC appliances to the neighbouring countries.

#### Total consumption of other ODS alternatives in all sectors during the period 2012-2015

ODS Alternative in (Mt/Year)	Year				Growth Rate 2012-2015 (%)
	2012	2013	2014	2015	
R-600a	-	-	3	5	66.7
R-717	0.55	0.55	3.2	5.2	945
C-Pentane	355	382	405	405	14.1
Methylene Chloride	238	261	283	270	13.2
HC: LPG	500	500	500	500	0
Butane	145	145	150	150	3.5
CO <sub>2</sub>	12	12	13	13	8.3
NOVEC 1230	10	10	10	10	0
NAF S III	20	20	20	0	-

The increase in consumption of HFC blends is almost equally dominated by consumption of R-404A, R-407C and R-410A in RAC sector. R-600a and R-717 are recently introduced into the market with small amount. Tables 3-22 until 3-29 show the total consumption of HFC, HFC blends and other ODS alternatives by sectors for the period 2012-2015.

#### 4. Based on the consumption data given above, please provide a description of the sector/sub-sector that use HFCs in the country, including a short analysis and explanation of the consumption trends (i.e., increasing or decreasing)

The consumption of ODS alternatives in Jordan has been observed in the refrigeration and air-conditioning (RAC) sector including their servicing, MAC, firefighting, aerosol and foam application. Under the RAC sector, it is used in unitary air-conditioning, water chillers, domestic refrigeration (refrigerators and plug-in-freezers), commercial refrigeration (stand-alone system, centralized system), industrial refrigeration (small, medium and large sized cold rooms), mobile air-conditioning, and transport refrigeration (road vehicles such as vans, trucks and trailers). Jordan neither produces nor export ODS or ODS alternatives and entirely relies on imports for its own consumption. Growing population, increase in income levels, increase in number of construction activities in the residential sector, expansion in the commercial and institutional (education institute, office space) sector and expansion in transportation, hospitality and tourism industry are the prime factors that drive the growth in consumption of ODS and ODS alternatives in Jordan.

The survey reveals that R-134a, R-404A, R-407C, R-410A, R-600a and R-717 are the main refrigerants used in the RAC sector. The R-134a is the main ODS alternatives employed and count for 70% of the total alternatives been used during the period 2012-2015 with annual growth rate of up to 10%, followed by R-404A (18%) and R-407C (10%) with annual growth rate of 5% for each. The rest of the alternatives (R-410A, R-600a and R-717) are introduced recently and count for only 2% of the total alternatives. For insulation, the C-Pentane found to be the main alternative for the HFC-141b used in this sector as blowing agent.

The consumption of HFCs and other alternatives of the main refrigerants (R-134a, R-404A, R-407C, R-410A, R-600a and R-717) in Jordan has increased from about 1307 MT in 2012 to 1532 MT in 2015, representing a compound annual growth of about 17% over the said period. Based on projected annual growth rates in demand forecasted for ODS alternatives until 2030, it is estimated that the consumption of these substances is likely to reach about 7638 MT in 2030. This demand of ODS alternatives will be dominated by the RAC and MAC sector.

While the survey indicated a wide range of HFCs uses in the RAC and MAC, there were limited applications of HFCs in firefighting system, aerosol and foam application. Moreover, the survey didn't result in any HFCs applications in the solvent.

Among various alternatives used in the country, consumption of HFC and its blends are likely to increase tremendously by 2030, potentially leading to notable environmental impacts on global warming. The total potential direct emission of HFC in all sector applications is estimated to reach 2650.171 Thousand tCO<sub>2</sub>eq. in the year 2015 and this is expected to increase to 15753.28 Thousand tCO<sub>2</sub>eq. in the year 2030.

However this can be avoided through introduction of low-GWP based alternatives to replace HCFCs and HFCs.

**5. Description of information that needs to be gathered and updated. Explain why this has not been undertaken in previous projects.**

Information needed	Description	Agency
Updated ODS alternatives data	Review available data and collect additional sector-specific data for the years 2016-2018 through questionnaires and interviews as this was not included in the enabling activities and previous ODS alternatives data collection only covered data until 2015.	UNIDO

**6. Activities to be undertaken for project preparation and funding**

Activity	Indicative funding (US \$)	Agency
Ground work: Consultant to prepare and conduct questionnaires and interviews with relevant stakeholders to update available data on ODS alternatives; consultant to contact surveys and consultations with key stakeholders for the integration of national regulations and procedures for KA implementation and	45,000 Number of meetings: 2 Number of experts or consultants: 3	UNIDO

consolidation of technical capacities in the institutions involved in HFC control		
HFC phase-down strategy development: Technical and legal experts to prepare all legal and technical documents, consult all key stakeholders and develop detailed strategy, including: - assessment and development/update trainings and certification scheme in use of flammable refrigerants, developing training plan and organizing workshops with main stakeholders and training institutions; - Communication and outreach plan preparation and development of awareness raising activities; - Enhance the training program on recovery and recycling of refrigerants and improve the monitoring and evaluation system of R&R practices	55,000 Number of meetings: 3 Number of experts or consultants: 3	UNIDO
Conducting studies, stakeholders' workshops and assessment related to the promotion of energy efficiency in all sectors, by: - Promoting upgrades for mandatory and voluntary standards;- Promoting the replacement of RAC equipment in homes, businesses and industry; - Promoting efficient practices of operation, maintenance and installation in RAC systems; - Developing detail studies for RAC equipment characterization and project portfolio evaluation for energy efficiency upgrades.	40,000 Number of meetings: 2 Number of experts or consultants: 2	UNIDO
Validation: Consultations, review and validation of the prepared strategy	10,000 Number of meetings: 2 Number of experts or consultants: 0,5	UNIDO
<b>TOTAL</b>	<b>150,000</b>	
<b>7. How will activities related to the stage II of the HPMP implementation be considered during project preparation for the HFC phase-down management plan?</b>		
Synergies from ongoing and future HPMP activities will be assessed and integrated into the HFC phase-down management plan development to the extent possible.		
<b>8. How will the Multilateral Fund gender policy be considered during project preparation?</b>		
Consideration to the gender policy of the Multilateral Fund will be given in all possible areas during project preparation. Budget of the components to be prepared, will take into account allocations for the proposed gender activities (e.g., capacity building activities for female technicians). Also each project component in terms of stakeholders and participation will ensure that both women and men can provide inputs, access and participate in		

project activities (e.g., through outreach / invitations of female technicians to participate in stakeholder consultations, expert recruitment etc).

<b>Country:</b>	<b>Sudan</b>
<b>Title:</b>	Project preparation for HFC-related projects in the manufacturing of air-conditioning units at J.M. Group/Mina factory to gain experience in ICCs and IOCs associated with the phase-down of HFCs
<b>Project Duration:</b>	24 months
<b>Project Budget:</b>	US\$ 30,000 (excl. 7.0% Agency Support Costs)
<b>Implementing Agency:</b>	UNIDO
<b>Coordinating Agency:</b>	National Ozone Unit – Higher Council for Environment and Natural Resources

---

## **Project Summary**

The Executive Committee has decided in Decision 78/3 (g) *“To consider approving a limited number of HFC-related projects in the manufacturing sector only, without prejudice to different kinds of technology, no later than at the first meeting of 2019, to allow the Committee to gain experience in the ICCs and IOCs that might be associated with phasing down HFCs in Article 5 countries...”*

In response to that above decision, UNIDO has received an official request from the Government of Sudan for the preparation of a demonstration project in the manufacturing sector in order to convert from HFC using equipment to non-GWP alternatives and to gain relevant experience in the associated ICCs and IOCs.

Regarding the Kigali Amendment to the Montreal Protocol the Government of Sudan has made all the necessary preparations for the ratification that is expected soon. The preparation activities include seminars with stakeholders, drafting amendments to the legal frameworks enabling the additional control of HFC imports through quotas and licensing. The phase-down strategy has been compiled and states: *“There are currently three enterprises consuming HFCs as initial charge of the refrigeration and air-conditioning equipment. The enterprises will be converted to use hydrocarbons (propane and isobutane as refrigerants).”*

The air-condition manufacturing of J.M.Group/Mina Factory has been identified as an efficient demonstration platform. The enterprise would be willing to initiate early actions and convert from HFCs to non-GWP alternatives in the air-conditioner manufacturing, where alternative technology is mature and readily available, in order to gain experience in ICCs and IOCs.

The strategy followed by Sudan is based on the following criteria and priorities:

- I. Application of well-known, affordable, available and widely used replacement alternatives and related technologies, while supporting efforts for identification and selection of such alternatives.



- II. To start phasing-down HFCs in those HFC manufacturing sectors, where low/non- GWP and mature alternatives are available.
- III. Through adoption of appropriate alternative technologies, limit climate and adverse environmental impact of converted enterprises and comply with safety, economic and sustainability requirements.

**Background on J.M. Group/Mina Factory**

J.M. Group/Mina Factory is 100% Sudan-owned enterprise. The Group was established in 1990. The Mina Factory is producing refrigerators and freezers; the production of air-conditioning equipment started in 2011. The Mina Factory has 19 outlets of its own and more than 200 distributors in Sudan. Service activities (especially the warranty service) are partially run by the company itself, partially sub-contracted by individual workshops.

The in addition to the air-conditioners the Factory makes refrigerators and electrical home appliances.

	<b>J.M. Group/Mina Factory</b>
<b>Ownership</b>	100% national
<b>Annual HFC consumption in air-conditioning equipment</b>	Approximately 9,000 kg
<b>HFC-based equipment</b>	Air-conditioner equipment, split units
<b>Baseline equipment</b>	- R-134a/R-410A) charging machines - vacuum pump - fixed gas detector - portable gas detectors

In the framework of the proposed project, it is planned that the R134a (or R410a) based products will be converted to R-290 (propane). Choosing propane is based on the prepared national strategy. Sudan prefers to avoid a large variety of different refrigerants anticipating that the future maintenance and service activities and training will be easier when the number of substances is limited. Training of the service technicians is a bottleneck in a large country even though there as on-going and planned training programs.

UNIDO has already procured, for demonstration purposes, from abroad some 80 pieces of R-290 run air-conditioner units to Sudan, which equipment is being distributed among vocational training centers, Sudan Technical University, Refrigeration Technicians’ Association and other stakeholders to support the on-going training and enhance the safe use low/non-GWP equipment and introduce local technicians to the operation of this kind of equipment. The Mina Factory is also receiving some pieces.

The J.M. Group/Mina Factory company is still using HCFC-141b foam insulation in the refrigerator manufacturing, but a conversion to hydrocarbon/cyclopentane under the HPMP II is currently taking place and will be soon completed. Further, the Factory has already made some trials on isobutane (R-600a) refrigeration equipment. Thus the management and staff starts to be introduced to the handling of hydrocarbons and related safety issues. It is therefore understood that the implementation proposed conversion project will be technically relatively easy.

### **Expected results**

The project will contribute directly to the phase-down of the HFC consumption in Sudan and indirectly enhance the service and maintenance capacity of hydrocarbon run equipment. It is expected that the project also serves as an example for the conversion of other HFC run installations to low-GWP or no-GWP installations. Information on incremental and operational and capital costs and their elaboration will be utilized for other conversions in the country. The project serves as a demo for other installations and enables them to benefit from the forthcoming financial and technical support when the country has ratified the Kigali amendment and got eligible for MLF finance.

Information on the expected energy savings will be effectively distributed and a workshop/seminar on the issue will be arranged after the conversion is finalized.

### **Activities to be undertaken**

- Data collection, verification and validation at the company and manufacturing plant level including the preliminary (warranty) service procedure of the products
- Technology review of available HC-equipment taking into consideration of the beneficiary company's production scale and including the required safety arrangements together with the existing and foreseen local regulations GWP alternatives
- Cost assessment of conversion (ICC and IOC)
- Evaluation of the climate co-benefits of the selected alternative and possible interventions and related costs for additional climate benefits
- Preparation, review, endorsement and submission of the project document

### **Funding Requirements**

The preparatory funds are requested for UNIDO, as follows:

<b>Activities</b>	<b>Cost US\$</b>
Local activities (national expert, local travel costs, coordination meetings etc.)	10,000
International consultant (project preparation and development)	15,000
International travel costs (staff)	5,000
<b>TOTAL</b>	<b>30,000</b>

## **Activities to be undertaken**

- Detailed data collection, verification and validation at the enterprise level
- Technology review of available, mature technical alternatives and discussion with the enterprises and the Government e.g. on the required safety standards and official requirements regarding occupational health and safety.
- Cost assessment of conversion (ICC and IOC)
- Evaluation of the climate co-benefits of the selected alternative and possible interventions and related costs for additional climate benefits
- Assessment of the energy saving aspects of the hydrocarbon products during their life-cycle
- Preparation, review, endorsement and submission of the project document

## Project Concept

<b>Country:</b>	Libya
<b>Title:</b>	Extension of Institutional Strengthening for the implementation of Montreal Protocol in Libya – Phase VI
<b>Project Duration:</b>	24 months (July 2020 – June 2022)
<b>Project Budget:</b>	174,164 (excl. 7% Agency Support Costs)
<b>Implementing Agency:</b>	UNIDO
<b>Coordinating Agency:</b>	National Ozone Unit/ Environmental General Authority

---

## Project Summary

The project is addressing further institutional strengthening and capacity building for the National Ozone Unit/ Environmental General Authority and will ensure that the Government will meet its obligations under the Montreal Protocol on the substances that deplete the Ozone Layer.

In this context, the role and functions of the National Ozone Unit (NOU) established within the Environmental General Authority of Libya in the past two years remained unchanged.

During phase V, the Libyan NOU was fully staffed. Significant efforts were made, given the country political and security situation, to continue with the implementation of the Montreal Protocol activities. Quotas for the period 2018 – 2020 were established and are being monitored on regular basis. The country consumption is below the control limits. The NOU continued to maintain cooperation with other public institutions through regular bilateral meetings, inter-ministerial meetings and steering committees. Country programme data and Article 7 data reports for 2017 and 2018 were submitted. Ozone Day Celebrations were organized in 2018 and 2019. Libyan officials attended the Meetings of the Party and Open-ended Working Group meetings in the reporting period.

During phase VI the NOU will continue to monitor HCFCs consumption to maintain compliance with quota system and with licensing system. Quotas will be issued for the years 2021 and 2022 to maintain HCFC consumption in line with the Agreement between the Executive Committee and the Executive Committee and with its commitments in decision XXVII/11. Activities planned under the next phase include: CP and Article 7 data reporting; continued monitoring the licensing system and allocate quotas to achieve full control over the imports of all HCFCs; continuing making efforts to introduce a ban importing or manufacturing HCFC equipment; continue cooperation with custom authorities and industry representatives; facilitate the ratification process of the Kigali Amendment through implementation of the enabling activities project. Public awareness activities will include celebration of international ozone day and the country plans to participate in regional network and Montreal Protocol meetings. The country has included 15 performance indicators for phase VI.

## Project Concept

### SECTION 3

Country	Project Title	Extension Duration (months)	Reason for extending the duration	Official request for extension received?
Jordan	Enabling activities for HFC phase-down (JOR/SEV/82/TAS/104)	12	Priorities were put on the support for the ratification of the Kigali amendment, which was successfully completed. The process of identification and recruitment of experts for the remaining activities needed additional time and an extension kindly requested to achieve results as planned.	Yes
Qatar	Enabling activities for HFC phase-down (QAT/SEV/82/TAS/24)	12	Due to the NOU restructuring, additional time is needed to complete all activities as planned.	Yes