



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

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COMITÉ EJECUTIVO DEL FONDO MULTILATERAL  
PARA LA APLICACIÓN DEL  
PROTOCOLO DE MONTREAL  
Octogésima octava Reunión  
Montreal, 15-19 de noviembre de 2021<sup>1</sup>

**ENMIENDAS AL PROGRAMA DE TRABAJO DEL BANCO MUNDIAL  
PARA EL AÑO 2021**

<sup>1</sup> Debido a la pandemia del coronavirus, en los meses de noviembre y diciembre de 2021 se realizarán reuniones telemáticas y un proceso de aprobación entre sesiones.

## OBSERVACIONES Y RECOMENDACIONES DE LA SECRETARÍA

1. El Banco Mundial solicita al Comité Ejecutivo aprobar la suma de 693.735 \$EUA más gastos de apoyo de 48.561 \$EUA para las enmiendas al programa de trabajo del año 2021 que se indican en el Cuadro 1. La presentación hecha por el Banco se encuentra adjunta al presente documento.

**Cuadro 1: Enmiendas al programa de trabajo del Banco Mundial, año 2021**

País	Actividad/Proyecto	Monto solicitado (\$EUA)	Monto recomendado (\$EUA)
<b>SECCIÓN A: ACTIVIDADES RECOMENDADAS PARA APROBACIÓN GENERAL</b>			
<b>A1: Renovación de proyectos de fortalecimiento institucional</b>			
Tailandia	Renovación de proyecto de fortalecimiento institucional (fase X)	443.735	443.735
Subtotal A1		443.735	443.735
Gastos de apoyo		31.061	31.061
Total A1		474.796	474.796
<b>A2: Preparación de planes de gestión para la eliminación de HCFC (PGEH)</b>			
Jordania <sup>a</sup>	Preparación de un PGEH (etapa III)	35.000	35.000
	Preparación de actividades de inversión relativas a la eliminación de HCFC (fabricación de equipos de refrigeración comercial)	30.000	30.000
Subtotal A2		65.000	65.000
Gastos de apoyo		4.550	4.550
Total A2		69.550	69.550
<b>A3: Preparación de planes de aplicación de la Enmienda de Kigali</b>			
Viet Nam <sup>b</sup>	Preparación de un plan de aplicación de la Enmienda de Kigali (etapa I)	185.000	185.000
Subtotal A3		185.000	185.000
Gastos de apoyo		12.950	12.950
Total A3		197.950	197.950
Total general (A1, A, A3)		742.296	742.296

<sup>a</sup> Con la ONUDI como organismo de ejecución cooperante.

<sup>b</sup> Con el PNUMA como organismo de ejecución cooperante.

### SECCIÓN A: ACTIVIDADES RECOMENDADAS PARA APROBACIÓN GENERAL

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

##### Descripción

2. El Banco Mundial solicita renovar el proyecto de fortalecimiento institucional que se indica en la sección A1 del Cuadro 1. El detalle consta en el Anexo I al presente documento.

##### Observaciones de la Secretaría

3. La Secretaría analizó la solicitud de renovación del proyecto de fortalecimiento institucional hecha a nombre del Gobierno de Tailandia a la luz de las pautas y decisiones sobre admisibilidad y niveles de financiamiento. La solicitud se contrastó con el plan de fortalecimiento institucional de la fase anterior, el programa país, los datos del artículo 7, el último informe de ejecución del PGEH, el informe de avance presentado por el organismo y las respectivas decisiones de la Reunión de las Partes. Se constata que Tailandia presentó los datos del programa país 2020, que se encuentra en cumplimiento con las metas de control del Protocolo de Montreal, y que su consumo anual de HCFC no supera el máximo permitido en el Acuerdo con el Comité Ejecutivo. Según lo dispone la decisión 74/51 e), se adjuntaron los indicadores de desempeño de las actividades de la siguiente fase del proyecto.

## Recomendación de la Secretaría

4. La Secretaría recomienda la aprobación general de la solicitud de renovación del proyecto de fortalecimiento institucional para Tailandia, al nivel de financiamiento señalado en la sección A1 del Cuadro 1. El Comité Ejecutivo podrá estimar oportuno hacer presente al Gobierno de Tailandia las observaciones que constan en el Anexo II al presente documento.

## A2: Preparación de planes de gestión para la eliminación de HCFC (PGEH)

### Descripción

5. El Banco Mundial, en calidad de principal organismo de ejecución, presentó una solicitud para la preparación de la estrategia transversal para la etapa III del PGEH de Jordania, con la ONUDI como organismo cooperante, así como una solicitud de financiamiento para la elaboración de proyectos relativos a actividades de inversión en el sector de fabricación de equipos de refrigeración comercial que forman parte de la etapa III del PGEH del país, según se muestra en la sección A2 del Cuadro 1.

6. En tanto que organismo cooperante, la ONUDI solicitó en sus enmiendas al programa de trabajo para el año 2021<sup>2</sup> la suma de 25.000 \$EUA más gastos de apoyo de 1.750 \$EUA.

7. La solicitud contenía la justificación del financiamiento solicitado para elaboración de proyectos, un informe sobre la ejecución de la etapa II del PGEH del país, las potenciales actividades y los costos asociados. En apoyo del financiamiento solicitado para la preparación de proyectos de inversión, se entregó además un cálculo del número de empresas restantes y del consumo global en el sector fabricación de equipos de refrigeración.

### Observaciones de la Secretaría

8. El análisis de la Secretaría se hizo en base a lo establecido en la decisión 71/42,<sup>3</sup> a la etapa II del PGEH para Jordania, al estado de ejecución de los tramos a la fecha del presente documento, y a la decisión 84/46 e).<sup>4</sup> La Secretaría constató que el financiamiento solicitado cumple con lo dispuesto en la decisión 71/42 y que el Banco Mundial confirma que los restantes tramos de financiamiento de la etapa II del PGEH se presentarán según lo programado en el Acuerdo entre Jordania y el Comité Ejecutivo.

9. El Banco Mundial confirma que la etapa III del PGEH eliminará el 100 por ciento de la base de comparación para HCFC al 1º de enero de 2030, salvo el consumo como reserva para servicio técnico.

## Recomendación de la Secretaría

10. La Secretaría recomienda la aprobación general de la preparación de proyectos para la etapa III del PGEH para Jordania, al nivel de financiamiento señalado en la sección A2 del Cuadro 1.

## A3: Preparación de planes de aplicación de la Enmienda de Kigali

### Descripción

11. Según consta en la sección A3 del Cuadro 1, el Banco Mundial, en calidad de principal organismo de ejecución, presentó una solicitud para la preparación de la etapa I del plan de aplicación de la Enmienda de Kigali para Viet Nam. El PNUMA, en tanto que organismo de ejecución cooperante, solicitó en sus enmiendas al programa de trabajo para el año 2021 la suma de 35.000 \$EUA más gastos de apoyo de 4.550 \$EUA.<sup>5</sup>

<sup>2</sup> UNEP/OzL.Pro/ExCom/88/32.

<sup>3</sup> Pautas para financiar la preparación de la etapa II del PGEH en países del artículo 5.

<sup>4</sup> La inclusión en el plan administrativo de la etapa III de los PGEH se permite únicamente en el caso de países con una etapa II aprobada que contemple metas de reducción por debajo de las metas fijadas para el año 2025.

<sup>5</sup> UNEP/OzL.Pro/ExCom/88/31.

### **Observaciones de la Secretaría**

12. El análisis de la Secretaría se hizo en base a las pautas para la preparación de planes de aplicación de la Enmienda de Kigali contenidas en la decisión 87/50, a las actividades de preparación de proyectos propuestas y a su relación con las actividades de apoyo y otros proyectos relativos a los HFC en curso en el país. La Secretaría constató que el financiamiento solicitado cumple con lo dispuesto en la decisión 87/50 y que el Banco Mundial, en tanto que principal organismo de ejecución, adjuntó una descripción de las actividades previstas para la elaboración de la estrategia transversal para el plan de aplicación de la Enmienda de Kigali en Viet Nam, utilizando para ello el formato establecido para las solicitudes de preparación de proyectos relativos a dichos planes de aplicación. La solicitud analizaba el HFC y mezclas de HFC importadas en el período 2018-2020 en base a los datos recogidos durante la ejecución de las actividades de apoyo; proponía, para fines del desarrollo de la estrategia transversal, revisar el sistema de licencias y cuotas para permitir el seguimiento y control de las importaciones y exportaciones de HFC y sus mezclas, estudiar el consumo actual de HFC y su distribución en los sectores de fabricación y servicio técnico y hacer una proyección del consumo; proponía además la realización de consultas con actores sociales a fin de elaborar un plan de acción con actividades asociadas (reforzamiento de capacidades, asistencia técnica, tareas de sensibilización) a implementar en el sector servicio técnico de equipos de refrigeración. Durante dichas consultas se considerará la posibilidad de integrar las actividades de reducción de los HFC a las actividades de eliminación de HCFC actualmente en curso.

13. El Banco Mundial aclaró que la preparación de proyectos relativos a la estrategia transversal de reducción de los HFC en Viet Nam se basará en la experiencia de las actividades de apoyo previamente ejecutadas, dado que éstas constituyeron las primeras medidas asociadas a la reducción de HFC y habían contribuido a la ratificación de la Enmienda de Kigali.

14. Tras el análisis, la Secretaría dejó constancia de que el país ratificó la Enmienda de Kigali,<sup>6</sup> de que presentó una nota formal señalando su intención de avanzar rápidamente hacia la reducción de los HFC, y de que el financiamiento solicitado cumple con lo dispuesto en la decisión 87/50.

### **Recomendación de la Secretaría**

15. La Secretaría recomienda la aprobación general de la preparación de proyectos relativos al plan de aplicación de la Enmienda de Kigali para Viet Nam, al nivel de financiamiento señalado en la sección A3 del Cuadro 1.

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<sup>6</sup> El 27 de septiembre de 2019.

Annex I

INSTITUTIONAL STRENGTHENING PROJECT PROPOSALS<sup>7</sup>

Thailand: Renewal of institutional strengthening

Summary of the project and country profile		
Implementing agency:		World Bank
Amounts previously approved for institutional strengthening (US \$):		
Phase I:	Mar-93	400,000
Phase II:	Jul-98	266,667
Phase III:	Jul-03	346,667
Phase IV:	Jul-05	346,668
Phase V:	Jul-07	346,668
Phase VI:	Jul-09	260,001
Phase VII:	Dec-12	346,668
Phase VIII:	Dec-16	443,735
Phase IX:	Dec-18	443,735
	Total:	3,200,809
Amount requested for renewal (phase X) (US \$):		443,735
Amount recommended for approval for phase X (US \$):		443,735
Agency support costs (US \$):		31,061
Total cost of institutional strengthening phase X to the Multilateral Fund (US \$):		474,797
Date of approval of country programme:		1993
Date of approval of HCFC phase-out management plan (stage I):		2012
Date of approval of HCFC phase-out management plan (stage II):		2018
Baseline consumption of controlled substances (ODP tonnes):		
Annex B, Group III (methyl chloroform) (average 1998-2000)		54.6
Annex C, Group I (HCFCs) (average 2009-2010)		927.6
Annex E, (methyl bromide) (average 1995-1998)		183.0
Latest reported ODS consumption (2020) (ODP tonnes) as per Article 7:		
Annex B, Group III (methyl chloroform)		0.00
Annex C, Group I (HCFCs)		350.11
Annex E, (methyl bromide)		0.00
	Total:	350.11
Year of reported country programme implementation data:		2020
Amount approved for projects (as at July 2021) (US \$):		83,130,216
Amount disbursed (as at December 2020) (US \$):		68,322,239
ODS to be phased out (as at July 2021) (ODP tonnes):		8,385.8
ODS phased out (as at December 2020) (ODP tonnes):		8,324.4

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

Summary of activities	Funds approved (US \$)
(a) Investment projects:	70,587,016
(b) Institutional strengthening:	3,200,809
(c) Project preparation, technical assistance, training and other non-investment projects:	9,342,391
	Total:
	83,130,216
(d) HFC activities funded from additional voluntary contributions	463,514

<sup>7</sup> Data as at December 2020 are based on document UNEP/OzL.Pro/ExCom/88/12.

Progress report

2. Under phase IX, the NOU situated in the Department of Industrial Works carried out the following activities: enforced HCFC control measures and the quota system; conducted public awareness including celebrations of International Ozone Day and distribution of public awareness materials; worked with key stakeholders to financially complete the HPMP including a workshop and environmental safeguards report; finalized a project implementation manual and the establishment of a project management unit; participated in Montreal Protocol related meetings; and submitted timely country programme and Article 7 data reports to the Fund and Ozone Secretariats, respectively. Of the 19 performance indicators set, targets for 17 were fully achieved, with one partially achieved and one not achieved.

Plan of action

3. The objectives of the phase X are to continue to ensure sustainable ODS phase-out; build capacity of the NOU and Government agencies; complement implementation of HCFC phase-out activities with relevant policy development and measures; submit data reports to the Fund and Ozone Secretariats conduct public awareness; support the Government's efforts to ratify the Kigali Amendment; find consensus on national HFC phase-down among relevant industries; and support the relevant agencies in terms of energy efficiency in the air-conditioning industries. The NOU will coordinate and implement the allocation of import quotas; monitor imports and exports in collaboration with the Custom Department; provide technical assistance and capacity building including support to the Ministry of Energy to raise the awareness of industry on energy efficiency matters; consider gender balance and work towards gender mainstreaming; and conduct virtual workshops and public awareness activities through online and virtual channels to sustain public support.

## **Anexo II**

### **CONSIDERACIONES PRELIMINARES DEL COMITÉ EJECUTIVO EN CUANTO A LA RENOVACIÓN DE PROYECTOS DE FORTALECIMIENTO INSTITUCIONAL PRESENTADOS ANTE LA 88ª REUNIÓN**

#### **Tailandia**

1. Tras tomar conocimiento del informe adjunto a la solicitud relativa a la renovación del proyecto de fortalecimiento institucional para Tailandia (fase X), el Comité Ejecutivo observa con satisfacción que el Gobierno ha transmitido a la Secretaría del Ozono los datos de los años 2019 y 2020 que confirman el cumplimiento con lo previsto en el Protocolo de Montreal, y que además ha transmitido a la Secretaría del Fondo los datos de la ejecución del programa país. El Comité observa asimismo que, pese a los obstáculos impuestos por la pandemia del coronavirus, la oficina nacional del ozono ha seguido capacitando a funcionarios aduaneros y técnicos en refrigeración y ejecutando actividades de sensibilización. El Comité constata los avances logrados por el Gobierno de Tailandia en cuanto a controlar el consumo de HCFC y prohibir su uso en los sectores de espuma (salvo proyectada) y climatización, así como respecto de ratificar la Enmienda de Kigali. El Comité Ejecutivo espera, por consiguiente, que en el próximo bienio el Gobierno de Tailandia continúe ejecutando la etapa II del plan de gestión para la eliminación de HCFC y el proyecto de fortalecimiento institucional con miras a mantenerse en cumplimiento con las obligaciones adquiridas en virtud del Protocolo de Montreal.

2021 BUSINESS PLAN  
WORK PROGRAM AMENDMENT



**WORLD BANK GROUP**

WORLD BANK IMPLEMENTED  
MONTREAL PROTOCOL OPERATIONS

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

20 September 2021



## **WORK PROGRAM FOR WORLD-BANK IMPLEMENTED MONTREAL PROTOCOL OPERATIONS**

1. This proposed work program amendment for Bank-Implemented Montreal Protocol Operations is prepared on the basis of the 2021-2023 World Bank Business Plan which was approved by the Executive Committee at its 86<sup>th</sup> meeting.
2. The 2021-2023 World Bank Business Plan consists of investment and non-investment activities to assist Article 5 partner countries to meet their HCFC reduction target, the 2020 35% reduction. The Business Plan includes, in addition to deliverables associated with previously approved and new investment activities, requests to extend support for implementation of existing institutional strengthening projects in 2 countries.
3. The present document constitutes WB's 2021 Work Programme Amendment and is being submitted for consideration by the Executive Committee at its 88<sup>th</sup> Meeting. It includes one request for extension of institutional strengthening project and one request for preparatory assistance for Kigali HFC implementation Plan. Funding is requested as follows:
  - Institutional strengthening project amounting to US\$ 474,796 (including US\$31,061 agency support costs); and
  - Preparatory assistance funding for Kigali HFC implementation plan in Viet Nam amounting to US\$ 197,950 (including US\$ 12,950 agency support costs). The preparation will be undertaken by WB as the Lead Implementing Agency and UN Environment as the Cooperating Implementing Agency. This request can be found in **Annex 1**.
  - Project preparation request for Stage III HPMP in Jordan amounting to US\$ 37,450 (including US\$ 2,450 agency support costs). The preparation will be undertaken by WB as the Lead Implementing Agency and UNIDO as the Cooperating Implementing Agency. This request can be found in **Annex 2**.

Total request is US\$ 710,196 (including US\$ 46,461 agency support cost) as summarized in Table 1 below.

*Table 1: Funding Requests Submitted for Consideration by the 88<sup>th</sup> Meeting of the Executive Committee*

<b>Country</b>	<b>Type</b>	<b>Description</b>	<b>Duration (months)</b>	<b>Request (US\$)</b>	<b>Support Costs (US\$)</b>	<b>Total (US\$)</b>
Thailand	INS	Extension of Institutional Strengthening project (Phase X)	24	443,735	31,061	474,796
Viet Nam	PRP	Preparation of Kigali HFC Implementation Plan: Overarching	24	185,000 <sup>1</sup>	12,950	197,950
Jordan	PRP	Preparation of Stage III HPMP	18	35,000	2,450	37,450
Jordan	PRP	Preparation of Investment Project for Stage III HPMP	18	30,000	2,100	32,100
<b>Total</b>				<b>65,000</b>	<b>48,561</b>	<b>742,296</b>

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<sup>1</sup> Not including preparation funding of US\$ 35,000 for UN Environment as Cooperating Implementing Agency

**Annex 1**

**MULTILATERAL FUND FOR THE  
IMPLEMENTATION OF THE MONTREAL PROTOCOL  
KIP PROJECT PREPARATION REQUEST FORM  
KIGALI HFC IMPLEMENTATION PLAN (OVERARCHING)**

**Part I: Project Information**

<b>Project title:</b>	Kigali HFC Implementation Plan Preparation	
<b>Country:</b>	Viet Nam	
<b>Lead implementing agency:</b>	World Bank	
<b>Cooperating agency (1):</b>	UNEP	
<b>Implementation period:</b>	January 2022 – December 2023	
<b>Funding requested:</b>		
<b>Agency</b>	<b>Sector</b>	<b>Funding requested (US \$)</b>
<b>World Bank</b>	Overarching	185,000
<b>UNEP</b>	RAC servicing	35,000

**Part II: Prerequisites for submission**

<b>Item</b>	<b>Yes</b>	<b>No</b>
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. Ratification of the Kigali Amendment by Viet Nam	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

<b>1. Montreal Protocol compliance target to be met in stage I of the KIP</b>			
<b>Phase-down commitment</b>	Freeze 10% reduction	<b>Year of commitment</b>	2024 2029
<input type="checkbox"/> Servicing only	<input type="checkbox"/> Manufacturing only	<input checked="" type="checkbox"/> Servicing and manufacturing	
<b>2. Brief background on previous activities related to the Kigali amendment and the HFC phasedown</b>			
<p>Viet Nam completed an HFC inventory with the financial support of the Climate and Clean Air Coalition and an ODS alternative survey with support of the Multilateral Fund (MLF) for the same time period, both in cooperation with the World Bank (final reports in 2017). The overall survey work (including other ODS alternatives) was undertaken between May 2016 and February 2017 by the Viet Nam Energy and Environment Consultancy Joint Stock Company (VNEEC), with technical guidance and oversight provided by the National Ozone Unit (NOU) of MONRE and the World Bank.</p> <p>Furthermore, in response to Decision 79/46 of the Executive Committee on guidelines for Enabling Activities for HFC Phase down, the Government of Viet Nam in collaboration with UNIDO submitted a proposal which was approved by the 80<sup>th</sup> Executive Committee meeting. After all activities under the enabling activity project for HFC phase-down were completed primarily by the UNIDO consultant</p>			

Ecology and Environment Institute, the government approved a resolution to ratify the Kigali Amendment and Viet Nam became the 82<sup>nd</sup> Party to ratify on 27 September 2019.

In addition, Viet Nam is also receiving support from the Japan International Cooperation Agency (JICA) to develop a legal framework to address GHG including HFCs. A workshop on “Exchanging experiences on fluorocarbon gas (F-gas) management” was jointly organized on April 28, 2021 by JICA, Viet Nam Office and the Department of Climate Change (DCC) under the Ministry of Natural Resources and Environment (MONRE).

**3. Current progress in implementation of Enabling Activities for HFC phase-down (Completed)  
Budget: US\$ 250,000 (Fully disbursed)**

Activity	Description	Implementing agency
Activities to facilitate early ratification of the Kigali Amendment	Coordination with government authorities. Review alternative technologies, development of technology and HFC phase-down roadmap, and assessment of impacts of Kigali Amendment.	UNIDO
Institutional arrangements	Review existing institutional arrangements for control of ODSs and HFCs, and conduct gap analysis for HFC control. Review and propose updating codes and standards for the efficient use of HFCs and ODS alternatives in the entire value chain	UNIDO
Data collection and analysis of HFCs consumption	Identify and collect HFC consumption and equipment containing HFCs in key sectors. Project consumption trends in key sectors under a BAU scenario.	UNIDO
Promoting energy efficiency improvement opportunities in the RAC sector	Review and assess policies and regulations related to energy efficiency in the RAC sector in Viet Nam and other countries. Assessment of alternative technologies and identification of potential energy saving opportunities.	UNIDO

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

Substance	Sector	2018	2019	2020
HFC-23	Fire suppression	1.75	4.28	9.06 <sup>2</sup>
HFC-32	RAC manufacturing and servicing	620.22	926.49	1,220.41 <sup>2</sup>
HFC-125	Fire suppression	2.08	2.59	5.00
HFC-134A	RAC manufacturing and servicing	1,248.06	1,443.38	1,923.25
HFC-152A	Others	1.00	0.30	2.40
HFC-227EA	Fire suppression	3.92	4.00	39.42
R-404A	RAC manufacturing and servicing	153.45	194.03	380.75
R-407C	RAC manufacturing and servicing	56.73	77.84	181.48

<sup>2</sup> Revised after review by DCC

R-410A	RAC manufacturing and servicing	949.94	1,102.96	1,734.56
R-507A	RAC manufacturing and servicing	11.48	16.71	31.66

**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)**

HFCs are mainly used in the manufacturing and servicing of refrigeration and air-conditioning equipment. Other uses in Viet Nam include fire suppression, glass manufacturing, etc. The overall HFC consumption trends are aligned with Vietnam’s high economic growth which averaged nearly 7% annually up until 2020, where GDP grew only by 2.9% - still one of the few countries in the world to see such growth in 2020 during the global pandemic.

HFCs used in the RAC sectors are on an increasing trend given increasing urbanization, expansion of the middle class and regional HCFC phaseout in these sectors, particularly in unitary air-conditioning. Both HFC-32 and R-410A in room AC are experiencing high growth in consumption. HFC-32, starting from nil after its introduction in 2014, had been used in manufacturing a few years later by Daikin Vietnam (and now, a second multinational). Vietnam has a large seafood industry with a cold chain which is also an ongoing source of demand of HFC blends in particular. Lastly, Vietnam manufactures vehicles for primarily domestic sales and thus requires HFC-134a for the initial charge. Use of HFC-134a for servicing however is greater and was the dominant HFC in installed equipment in the country several years ago when the ODS alternative survey was completed. Consumption of HFCs used in the other sectors are also on an increasing trend though their growths are expected to be modest.

Although the increase in HFCs and blends is across the board through 2020, it is important to note that impacts from the global pandemic may have tempered growth somewhat. These impacts are expected to be more pronounced in 2021 when the pandemic and resulting restrictions took greater hold of the country (June onwards).

**6. Description of information that needs to be gathered and updated. Explain why this has not been undertaken during HFC enabling activities.**

Information needed	Description	Agency
Others, specify.	Update Viet Nam HFC survey (inclusion of actual 2019, 2020 and 2021 HFC consumption, and 2022 projections) and analyze the impact of COVID-19 pandemic that may depress the demand of HFCs and HFC-based equipment during the baseline years (2020 – 2022), resulting in a lower HCFC baseline than the previous estimate. Update HFC consumption projections for the immediate period (2023 – 2029) to assess potential compliance risk once demand returns to normal post COVID-19 pandemic.	World Bank

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

Activity	Indicative funding (US \$)	Agency
<b>1. Import and export control</b>		

1.1 Review of the national licensing and quota system to monitor and control the consumption of HFCs and HFC blends. Development of options in alignment with the preparation of the HFC phasedown strategy.	20,000	World Bank
1.2 Capacity building activities related to import/export licensing system including Customs and importers/exporters. Assistance in the development of options as necessary.	10,000	UNEP <sup>3</sup>
<b>2. Data collection and analysis</b>		
2.1 Data collection by sector/sub-sector/HFC substance (2019-21)	50,000	World Bank
2.2 Stakeholder consultation: conducting interviews, organizing workshops and stakeholders' consultations on ODS alternatives and for the integration of national regulations and procedures for KA implementation and coordination of technical capacities in the institutions involved in HFC control	25,000	World Bank
2.3 Data analysis and development of BAU and growth modeling scenarios, sensitivity analysis, review of feasible options along with preparation of a related technology roadmap reflecting current and future HFC alternatives	25,000	World Bank
<b>3. Development of overarching strategy</b>		
3.1 Review and development of implementing policies and approaches as relevant and in the context of Vietnam's forthcoming national plan on the management and disposal of controlled ODS and GHGs, including inter-ministerial/agency and institutional arrangements for HFC phasedown.	10,000	World Bank
3.2 Development of the overarching strategy for the phase-down of HFCs and plan of action for stage I of the KIP to address the freeze and 10 per cent reduction in HFC consumption. HFC phase-down strategy development: Technical and legal experts to prepare all legal and technical documents; and if necessary, recommendations for update of institutional arrangements; consult all key stakeholders and develop detailed strategy.	50,000	World Bank
3.3 Development of and integration of the strategy for the phase-down of HFCs focusing on refrigeration servicing sector into the overarching strategy.	20,000	UNEP
<b>4. Outreach and communication</b>		
4.1 Preparation of a comprehensive communication and outreach plan in consultation with key stakeholders.	5,000	World Bank
4.2 Consultation with relevant stakeholders to identify challenges and conduct need assessment for development of outreach and communication methodology for the servicing sector.	5,000	UNEP
<b>TOTAL</b>	<b>220,000</b>	
<b>8. How will activities related to implementation of HPMP be considered during project preparation for Kigali Implementation Plan?</b>		

<sup>3</sup> Focus on capacity building for implementation

It is expected that there will be opportunities for synergies between the HPMP and the KIP, particularly in refrigeration and air-conditioning sectors that use both HCFCs and HFCs. Previous measures from the HPMPs in these sectors such as capacity building for technicians, can be integrated to a certain extent. However, there are other sectors that only use HFCs such as in the mobile air-conditioning and domestic refrigeration that were not addressed in the HPMPs. Moreover, integration of best practices in installed equipment maintenance related to energy performance was also not covered. Thus, the Kigali Implementation Plan will be broader and more complex undertaking than HCFC phase-out.

**9. How will the Multilateral Fund gender policy be considered during project preparation?**

The Government of Viet Nam is aware of the Multilateral Fund gender policy contained in ExCom document 84/73, and the related Executive Committee decision 84/92. The project preparation will aim to advocate the importance of gender-responsive actions and provisions in developing the Kigali Implementation Plan. Relevant stakeholders will be sensitized on the gender policy and efforts will be made to encourage female stakeholders to contribute to the project preparation. To the extent possible, a gender-disaggregated data will be collected.

## Annex 2

### 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>	Jordan HPMP Stage III Preparation	
<b>Country:</b>	Jordan	
<b>Lead implementing agency:</b>	World Bank	
<b>Cooperating agency (1):</b>	UNIDO	Click or tap here to enter text.
<b>Implementation period:</b>	2022-2030	
<b>Funding requested:</b>		
<b>Agency</b>	<b>Sector</b>	<b>Funding requested (US \$)*</b>
World Bank	Overarching	35,000
World Bank	INV - REF	30,000
UNIDO	Overarching Servicing	25,000

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

#### Part II: Prerequisites for submission

Item	Yes	No
3. Official endorsement letter from Government specifying roles of respective agencies (where more than one IA is involved)	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. 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 type="checkbox"/>	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> <li>Specify meeting at which PRP funding balance had been returned/will be returned</li> </ul>	Click or tap here to enter text.	

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

<b>10. 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>	100%	<b>Year of commitment</b>	2030
<input type="checkbox"/> Servicing only		<input type="checkbox"/> Manufacturing only	<input checked="" type="checkbox"/> Servicing and manufacturing
<b>11. Brief background on previous stage of the HPMP</b> (i.e., when the HPMP was approved; a description of the progress in implementation of the previous stage of the HPMP to demonstrate that substantial progress had been made.)			
<p>Jordan's HPMP stage II was approved by the ExCom during its 77<sup>th</sup> meeting in December 2016 (Decision 77/45) to reduce HCFC consumption in the period 2017-2022 by 50 percent of the baseline. World Bank participates in its execution as the lead implementing agency (US\$ 2,075,236) and UNIDO (US\$ 999,455) as cooperating implementing agency and the Ministry of Environment, through its Project Management Unit, as executing agency. All funds were approved in principle by the ExCom to assist Jordan in complying with the 2020 control measures for HCFCs under the Montreal Protocol comprising of annual/biennial HCFC consumption and phase-out targets as: reducing HCFC consumption by 35% and 50 per cent of its baseline by 2020 and 2022, respectively; by January 2022, a ban on the import of HCFC-141b in bulk and contained in pre-blended polyols. Tranche 1 was approved for World Bank and UNIDO in December 2016, by a total amount of US\$ 983,466 plus support costs. Tranche 2 was approved by the ExCom during its 84<sup>th</sup> meeting in December 2019 for World Bank and UNIDO by a total amount of US \$1,663,211 plus support costs. Tranche 3 was scheduled to be submitted for consideration by the 88<sup>th</sup> ExCom but will be deferred to the next meeting. Jordan is in compliance with the Montreal Protocol provisions and the Agreement with the Executive Committee and the country 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. World Bank as well as UNIDO's preparatory funds for HPMP stage II have fully been disbursed. The endorsement from the Government requesting World Bank as lead</p>			



agency and UNIDO as cooperating agency to prepare HPMP stage III has been received. The remaining eligible consumption of HCFCs is of 23.99 ODP according to document ExCom 77/76, Annex XXI.

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

Activity	Description	Implementing agency
Manufacturing-Foam PU	Individual conversion projects of manufacturers of continuous discontinuous PU foam panels under progress. One individual project have finalized (Maani), two are on their final implementation stage (Al Safa and Yousef Workshop), and another two (Jordan Pioneer, and Al Qnadeel) will finalize its conversion process in the second semester of 2021. One domestic refrigerator manufacturer (Abu Haltam) will start its conversion process in the second semester of 2021. Jordan is addressing technical assistance and will provide support to the small and medium enterprises in the second semester of 2021.	World Bank
Manufacturing-Foam PU	UNIDO is assisting six Jordanian spray foam companies with the procurement of HFO polyol formulation used to produce spray foam insulation in multi layers for roofing, wall and basements. Objective is to achieve the complete phase out of HCFC-141b in the PU spray foam sector by 1st of January 2022 and after a study tour to different foam suppliers of the six beneficiaries, HFO has been selected as alternative to HCFC-141b. The HFO is procured under 3 different batches, first two batches have been successfully distributed and the last procurement is currently taking place and will be completed until end of 2021	UNIDO
Refrigeration servicing sector	The national strategy for the service sector was developed and validated with relevant ministries, private sector, and stakeholders during a workshop in the Dead Sea from 13 to 14 June 2019.4 National experts were recruited and are currently finalizing the training curriculum including training courses for the technicians in service sector, training course for the enforcement offices (Customs officers and Metrological and standard organization) , training course for Industrial schools, certification system, and safety measures. In addition, UNIDO in coordination with the MOE (NOU) organized three workshops on 30 November 2020, 1 December 2020 and 29 December 2020 to raise awareness with the service sector on HCFCs, HFCs and their alternatives.	UNIDO

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

Substance	Sector	2018	2019	2020
HCFC-22	Manufacturing-REF	35	22	5
HCFC-22	RAC servicing	433	283	525
HCFC-141b in imported pre-blended polyols	Manufacturing-Foam PU	220	226	240

## 14. 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)

Jordan does not produce HCFCs and the national consumption is based on imports. HCFC-22 are used in the manufacturing of commercial refrigeration equipment and for servicing room air-conditioning and commercial refrigeration equipment. HCFC-22 used in the manufacturing are on a decreasing trend though the low consumption in 2020 could have been impacted by the government's measures to combat COVID-19 pandemic. HCFC-22 consumption for the servicing sector was lowest in 2019 – 35% drop from 2018 level but then increase 85% in 2020. HCFC-141b in imported pre-blended polyols remains relatively stable during the last three years as the foam enterprises are at various stages during the conversion process.

<b>15. 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>
Analysis of types of equipment using HCFCs	Review available data and collect additional equipment data through questionnaires and interviews with the commercial refrigeration manufacturers.	World Bank
<b>16. Activities to be undertaken for project preparation and funding</b>		
<b>Activity</b>	<b>Indicative funding (US \$)</b>	<b>Agency</b>
Consultant(s) to conduct surveys, interviews, site visits, and consultation with national stakeholders.	10,000	World Bank
Consultant(s) to draft the overarching of the HPMP stage III and tranche 1 request in consultation with the Montreal Protocol focal point, other stakeholders and cooperating implementing agency.	15,000	World Bank
National consultation workshops with key national stakeholders	10,000	World Bank
Consultant(s) <sup>4</sup> to conduct surveys, interviews and consultations with key stakeholders to obtain and up to date assessment of the RAC Sector needs (RAC) in Jordan (operating workshops, training centers, equipment profile, skills, etc...) component of the HPMP stage III	15,000	UNIDO
Consultant(s) <sup>4</sup> to draft the service sector component of HPMP III taking into account the information collected,	5,000	UNIDO
One (1) validation workshop with key stakeholders	5,000	UNIDO
<b>TOTAL</b>	<b>60,000</b>	
<b>17. 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>		
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, supporting the activities developed under HPMP-II and finalizing the efforts to HCFCs phase-out. The strategy will also raise awareness of stakeholders on the Kigali Amendment and its future obligations, focusing in avoiding the increase of high-GWP HFC use as HCFC's alternative.		
<b>18. How will the Multilateral Fund gender policy be considered during project preparation?</b>		
The Government of Jordan is aware of the Multilateral Fund gender policy contained in ExCom document 84/73, and the related Executive Committee decision 84/92. The project preparation will aim to advocate the importance of gender-responsive actions and provisions in developing Stage III HPMP. Relevant stakeholders will be sensitized on the gender policy and efforts will be made to encourage female stakeholders to contribute to the project preparation. To the extent possible, a gender-disaggregated data will be collected.		

### C. Information required for PRP funding request for investment projects as part of the HPMP

<b>1. Agency:</b>	World Bank
<b>2. Sector:</b>	Refrigeration
<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: 2020 <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-22	23.99
HCFC-141b	0

<sup>4</sup> International and national expert

<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
		2015	2019	2020	
Abdin	1974	9.1	N/A	N/A	To be determined
22 small enterprises	Prior to cut-off date	28.8	N/A	N/A	To be determined
<b>6. Activities to be undertaken for preparation of the investment project and funding requested</b>					
Activity			Indicative funding (US \$)		
Consultant(s) to conduct surveys, interviews, site visits, and consultation with commercial refrigeration manufacturers.			20,000		
Consultant(s) to draft the investment component of the HPMP stage III and trance 1 request in consultation with the Montreal Protocol focal point, other stakeholders and cooperating implementing agency.			10,000		
<b>TOTAL</b>			30,000		