

**SIGNATURE PAGE**

Country: Kingdom of Bahrain

UNDAF Outcome(s)/Indicator(s):  
(Link to UNDAF outcome; if no UNDAF, leave blank)

Expected Outcome(s)/Indicator (s): Better compliance with Montreal Protocol control measures and build national capacities of related stakeholders/institutions to enhance adopting initiatives/activities towards protecting the Ozone Layer

Expected Output(s)/Indicator(s): 100 % Phase out the consumption of the Chlorofluorocarbons (CFCs) by the year 2010

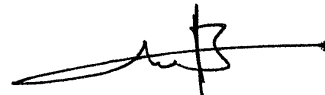
Implementing partner: Public Commission for the Protection of Marine Resources, Environment and Wildlife

(Designated institution/Executing agency)

Other Partners: United Nations Environment Programme (UNEP)  
(Formerly implementing agencies)

<p>Programme Period: 2006-2008 Programme Component: Energy and environment for sustainable development Project Title: BHA/PHA/50/INV/16 - Terminal Phase Out Project (1<sup>st</sup> Tranche)  Project ID: Project Duration: 24 months  Management Arrangement: NEX</p>	<p>Budget US\$ 272,500 General Management Support Fee - Total budget: US\$ 272,500 Allocated resources: • Government _____ • Regular _____ • Other: US\$ 272,500 • Donor MLF-MPU ○ Donor _____ ○ Donor _____ • In kind contributions Unfunded budget: _____</p>
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Agreed by Government: **Prof. Dr. Ismail M. Al-Madani**  
**Vice President & Director General**  
**Environment & Wildlife Affairs**



Agreed by UNDP: **Mr. Sayed Aqa**  
**Resident Representative**  
**UNDP, Bahrain**





UNDP Project Document

UNDP-MLF

Government of the Kingdom of Bahrain

United Nations Development Programme

**BHA/PHA/50/INV/16 – Terminal Phase-out Management Plan (1<sup>st</sup> Tranche)**

The Terminal Phase-Out Management Plan for the Kingdom of Bahrain will result in the complete phase-out of CFCs between 2006 and 2010. The project addresses all remaining eligible consumption of CFC with its baseline consumption was 135.441 Tonnes. The project includes training, technical assistance and investment activities. The TPMP will allow Bahrain to phase-out its CFCs consumption by January 2010. Because of the very nature of the project, it is essential to adopt a flexible approach in the implementation phase to allow the government to adapt and adjust the proposed strategy according to its needs in accordance with related flexibility decisions of the Multilateral Fund.

The grant requested to the MLF by the government of Bahrain for the complete and final phase-out of CFCs in the refrigeration sector is US\$ 642,500 (these amounts do not include agency support costs).

Funds will be disbursed in line with the attached agreement. As a result oriented agreement, second tranche payment will be based on the achievement of the objectives, in respect to the conditions included in the agreement.

UNEP is the lead implementing agency of this TPMP.

First Tranche funding approved for UNDP is US\$272,500

**Executing Agency: Public Commission for the Protection of Marine Resources, Environment and Wildlife**  
**Starting Date: March 2007**  
**Total Budget: US\$642,500**

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## ACRONYMS

<b>CFC</b>	<b><i>Chlorofluorocarbon</i></b>
<b>HCFC</b>	<b><i>Hydro chlorofluorocarbon</i></b>
<b>HFC</b>	<b><i>Hydro fluorocarbon</i></b>
<b>IA</b>	<b><i>Implementing Agency</i></b>
<b>MAC</b>	<b><i>Mobile Air Conditioning (Systems)</i></b>
<b>MDI</b>	<b><i>Metered Dose Inhaler</i></b>
<b>MLF</b>	<b><i>Multilateral Fund</i></b>
<b>ODP</b>	<b><i>Ozone Depleting Potential</i></b>
<b>ODS</b>	<b><i>Ozone Depleting Substances</i></b>
<b>TPMP</b>	<b><i>Terminal Phase-Out Management Plan</i></b>

## **SECTION I : Narrative**

### **PART I: Situational analysis**

The government of Bahrain acceded to the Vienna Convention for the Protection of the Ozone Layer and the Montreal Protocol for the Phase-out of Ozone Depleting Substance (ODS) in 1990 and operates under paragraph 1 of Article V of the Montreal Protocol.

The Executive Committee of the Multilateral Fund approved the Country Programme of the Kingdom of Bahrain at its 20<sup>th</sup> Meeting in October 1996 held at Montreal. It was followed by the approval of a National Programme for Recovery and Recycling of Refrigerants excluding MAC to be executed by UNDP in May 1997 (BAH/REF/22/TAS/04). The Refrigerant Management Plan consisting of Training of Trainers in Good Refrigerant Management Practices (BAH/REF/26/TRA/05) and Training of Customs (BAH/REF/26/TRA/06) to be implemented by UNEP was approved in November 1998. Two investment projects for conversion of two commercial refrigeration manufacturers were approved in November 1999 for implementation by UNDP (BAH/REF/29/INV/09 and BAH/REF/29/INV/10).

The implementation of the Refrigerant Management Plan, RMP, has been completed and the PCRs submitted. The RMP addressed 20 ODP Tonnes to be phased out through Recovery and Recycling. Reduction in ODS consumption, to ensure meeting the Montreal Protocol obligations has been achieved through legislation. However, there is still use of CFC-12 particularly in the refrigeration sector in domestic and commercial refrigeration servicing, chiller servicing and MAC applications. These equipment are being gradually phased out, but cannot be done too rapidly as it would cause economic hardship. The 43<sup>rd</sup> Meeting of Executive Committee approved a project preparation for an RMP update for Bahrain to be carried out by UNDP (BAH/REF/43/PRP/13). Through the preparatory phase it was clearly noted that it would be too late to submit an RMPU by end of 2005 to meet the early 2007 control measures, therefore it was agreed between the Kingdom of Bahrain, UNDP and UNEP to extend the preparation for a TPMP preparation instead. It was also agreed that UNEP will be the lead agency in this project since it is the IA for ISP as well as its presence in the country (UNEP Regional Office for West Asia is based in the Kingdom of Bahrain) which will enable UNEP to provide instantaneous support and close monitoring during the implementation. This TPMP addresses the remaining ODP consumption in the Refrigeration service sector, including MAC and should be approved as soon as possible to keep the momentum going and allow for equipment to be phased out in an economically acceptable manner.

The TPMP is essential and will allow the Kingdom of Bahrain to meet with its 2010 objectives.

- ❖ The Executive Committee has approved this project in accordance with the agreement between the Government of The Kingdom of Bahrain and the Executive Committee (Annex 1)

### **PART II: Strategy**

The funds requested (US\$ 642,500) will help the country to put in place a national structure for the implementation of the activities required to meet the Montreal Protocol objectives. The funds disbursement criteria covering the years 2007 – 2010 are detailed in the Agreement attached to the present document as Annex 1.

The country will use a flexible approach to fulfil particular needs that could arise during the project implementation.

The technical assistance programme for the service sub-sector of the refrigeration sector will be implemented step by step so that funds could be reallocated to other activities, additional trainings, equipment purchases, as needed, to meet with the obligations of the project, according to Appendix 5-A of the Agreement (Annex 1).

Funds will be disbursed in line with the Agreement available in Annex 1. As a result oriented agreement, future payments will be based on the achievement of the objectives, in respect to the conditions included in the Agreement.

During the 1<sup>st</sup> year, the following activities will be implemented (UNDP): Purchase of MAC recovery and recycling equipment and training, purchase of recovery machines, ancillary equipment and cylinders and training, to give technical advice and assist in the training and monitoring activities of the UNDP executed projects (international consultant).

UNEP is the lead implementing agency under this TPMP and UNDP the cooperating implementing agency.

The total funding approved by the ExCom for this TPMP is US \$ 642,500 (UNEP and UNDP). The role of both agencies is detailed in the Agreement (annex I), Appendix 6-A and 6-B.

### **PART III: Management Arrangements**

The project will be managed as nationally executed project (NEX) by the Government of the Kingdom of Bahrain, Public Commission for the Protection of Marine Resources, Environment and Wildlife through its National Ozone Unit.

Annual meetings will be organised to discuss the annual report to be presented to the following Executive Committee meeting. The national consultants will be in charge of the preparation and editing of the document. This component will also ensure the yearly audits required for TPMPs as per existing guidance from the Executive Committee.

As part of the TPMP, the Steering Committee ( UNEP,UNDP and NOU) will select an independent local organization/firm to monitor effectiveness of implementation of the TPMP, including reductions of CFC consumption levels, and to measure the impact of training programs on the overall phase out strategy and program

In accordance with standard UNDP procedures, all resources/ equipment gained through project support remains the property of UNDP until project closure when a decision will be taken as to how to dispose of these resources. It is a standard practice to leave resources with DI after project closure as a contribution to the development of national capacity.

## **SECTION II: STRATEGIC RESULTS FRAMEWORK**

The funds disbursement criteria are presented in the section 6 of the project document, "TPMP Milestones".

Section 4 of the Project Document also provides details of each by activity including objective and expected impact.

### **SECTION III: TOTAL BUDGET AND WORKPLAN**

The table below only covers the activities to be implemented by UNDP.

Country: Kingdom of Bahrain  
 Business Unit: BHR10  
 Short Title: BHA/PHA/50/INV/16 - TPMP (1st Tranche)  
 Long Title: Terminal Phase-out Management Plan  
 Total Budget: US\$272,500

Atlas Activity	Responsible Party	Atlas Budget Description	2007 amount (USD)	Dept. ID	Operation Unit	Fund	Implementing Agency	Donor ID
Activity 1 Refrigeration Sector Recycling and Recovery Programme	Public Commission for the Protection of Marine Resources, Environment and Wildlife	72200 Recovery and Recycling Equipment and Tools for Refrigeration Servicing Sector	187,500	tbd	tbd	63080	tbd	10009
		71200 International Expert	25,000	tbd	tbd	63080	tbd	10009
Activity 2 MAC Recovery & Recycling and Retrofit Campaign	Public Commission for the Protection of Marine Resources, Environment and Wildlife	72200 MAC Recovery and Recycling Equipment	45,000	tbd	tbd	63080	tbd	10009
Activity 3 Monitoring and Evaluation	Public Commission for the Protection of Marine Resources, Environment and Wildlife	71200 International Consultant	15,000	tbd	tbd	63080	tbd	10009
		<b>Total</b>	<b>272,500</b>					

tbd - To be determined by the Country Office