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EXECUTIVE COMMITTEE OF  
THE MULTILATERAL FUND FOR THE  
IMPLEMENTATION OF THE MONTREAL PROTOCOL  
Fifty-third Meeting  
Montreal, 26-30 November 2007

**PROJECT PROPOSAL: MOROCCO**

This document consists of the comments and recommendation of the Fund Secretariat on the following project proposal:

Fumigant

- Phase-out of methyl bromide used for soil fumigation in tomato production (fifth tranche)

UNIDO

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## PROJECT EVALUATION SHEET – MULTI-YEAR PROJECTS MOROCCO

**PROJECT TITLE****BILATERAL/IMPLEMENTING AGENCY**

Phase-out of methyl bromide used for soil fumigation in tomato production (fifth tranche)	UNIDO
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<b>NATIONAL CO-ORDINATING AGENCY:</b>	National ozone unit
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**LATEST REPORTED CONSUMPTION DATA FOR ODS ADDRESSED IN PROJECT****A: ARTICLE-7 DATA (ODP TONNES, 2006, AS OF SEPTEMBER 2007)**

Annex E, methyl bromide	383.8		

**B: COUNTRY PROGRAMME SECTORAL DATA (ODP TONNES, 2006, AS OF SEPTEMBER 2007)**

ODS	Aerosol	Foam	Ref.	ODS	Solvents	Process agent	Fumigant
				Methyl bromide			383.8

<b>CFC consumption remaining eligible for funding (ODP tonnes)</b>	
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**CURRENT YEAR BUSINESS PLAN:** Total funding US \$456,210: total phase-out 42.3 ODP tonnes.

PROJECT DATA		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Total
MB (ODP tonnes)	Montreal Protocol limits	744.0	688.4	612.9	570.7	481.7	425.3	347.3	260.9	164.9		
	Annual consumption limit	-	-	34.1	-	39.0	56.4	78.0	86.4	96.0		
	Annual phase-out from ongoing projects											
	Annual phase-out newly addressed											
	Annual unfunded phase-out											
<b>TOTAL ODS CONSUMPTION TO BE PHASED OUT</b>		-	-	34.1	--	39.0	56.4	78.0	86.4	96.0		389.9
Project cost as originally submitted (US \$)												3,957,844
<b>Final project costs (US \$):</b>												
Funding for UNIDO		400,000	0	0	607,513	1,670,995	411,633	424,381	398,427			3,912,949
<b>Total project funding</b>		400,000	0	0	607,513	1,670,995	411,633	424,381	398,427			3,912,949
<b>Final support costs (US \$):</b>												
Support cost for UNIDO		52,000	0	0	45,563	125,325	30,872	31,829	29,882			263,471
<b>Total support costs</b>		52,000	0	0	45,563	125,325	30,872	31,829	29,882			263,471
<b>TOTAL COST TO MULTILATERAL FUND (US \$)</b>		452,000	0	0	653,076	1,796,320	442,505	456,210	428,309			4,176,420
Final project cost effectiveness (US \$/kg)												10.03

**FUNDING REQUEST:** Approval of funding for the fifth tranche (2007) as indicated above.

<b>SECRETARIAT'S RECOMMENDATION</b>	Blanket approval
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## **PROJECT DESCRIPTION**

1. On behalf of the Government of Morocco, UNIDO has submitted a progress report on the implementation of the fourth tranche of the project to phase out 389.9 ODP tonnes of methyl bromide (MB) used for soil fumigation in tomato production in Morocco, as well as a request for funding for the fifth tranche of the project, for consideration by the Executive Committee at its 53rd Meeting. The level of funding requested is US \$424,381 plus agency support costs of US \$31,829.

### **Background**

2. The Executive Committee had previously approved projects to phase out MB use in cut flower and banana production, and in the strawberry sector in Morocco, which amounted to funding of US \$3,196,381. Funding amounting to US \$3,090,041 for the first four tranches of the MB phase-out project for the tomato sector, including a technology change component, has also been approved by the Executive Committee.

### **Progress report**

3. In 2007, UNIDO implemented a number of activities. These include extending a contract for logistical support, preparation of training manuals, the awareness raising of major tomato producers and farmers' associations. Phase II of both the nursery greenhouse and technology transfer centre components of the project began. Also, 66 farmers benefited from the incentive to introduce grafted tomato seedlings, and several farmers used an alternative chemical for soil fumigation (1.3 dichloropropane plus chloropicrin).

4. As of September 2007, of the total funding of US \$3,090,041 approved so far, UNIDO has disbursed US \$2,893,156.

### **Plan of action**

5. Phase-out of an additional 86.4 ODP tonnes of MB is proposed for 2008. The target will be achieved by continuing to implement the training programmes and technical assistance initiatives, completing Phases II of both the nursery component and the development of the technology transfer centre, establishing its MB alternative programme, and continuing to monitor MB users and the performance of MB alternatives.

## **SECRETARIAT'S COMMENTS AND RECOMMENDATION**

### **COMMENTS**

6. The 2006 MB consumption reported by the Government of Morocco under Article 7 of the Montreal Protocol of 383.8 ODP tonnes is already 41.5 ODP tonnes below the maximum allowable level of consumption of 425.3 ODP tonnes for that year under the agreement between the Government and the Executive Committee. Taking into consideration that MB is still used in many other crops in Morocco, the Secretariat sought an explanation of how the Government is controlling the use in the tomato sector. UNIDO indicated that the Government of Morocco's yearly imports (crop season) are limited to the allowed amount of MB for use as a soil fumigant

in the tomato sector, in accordance with the measures put in place by the Government to control the import and use of MB (law 666-87-1997).

7. According to the progress report submitted by UNIDO, Phase II of the nursery component has been delayed because the national counterpart requested the introduction of the grafting technology in the northern region of the country where tomatoes are also increasingly produced. On this basis, it could be assumed that this is a relatively new production area that was not in place at the time the project was approved. To assist in the introduction of MB alternative technologies in this region, the Government decided to implement an outreach programme mainly promoting the grafting technology combined with chemical alternatives. This technology will also benefit other crops. Furthermore, the production of tomatoes in the technology transfer centre has begun using the following alternative technologies: solarization combined with chemical and bio-fumigation alternatives; grafting combined with other alternatives; chemical alternatives (mainly metam-sodium and 1.3 dichloropropene); and biofumigation with natural and enriched organic matter.

### RECOMMENDATION

8. The Secretariat recommends blanket approval of the fifth tranche of the project for the phase-out of MB used for soil fumigation in tomato production in Morocco as specified in the table below.

	<b>Project Title</b>	<b>Project Funding (US \$)</b>	<b>Support Cost (US \$)</b>	<b>Implementing Agency</b>
(a)	Phase-out of methyl bromide used for soil fumigation in tomato production (fifth tranche)	424,381	31,829	UNIDO

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