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EXECUTIVE COMMITTEE OF THE MULTILATERAL FUND FOR THE IMPLEMENTATION OF THE MONTREAL PROTOCOL Fifty-fourth Meeting Montreal, 7-11 April 2008

PROJECT PROPOSAL: MEXICO

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

Phase-out

• National methyl bromide phase-out plan (first tranche)

Canada, Italy, Spain and UNIDO

Pre-session documents of the Executive Committee of the Multilateral Fund for the Implementation of the Montreal Protocol are without prejudice to any decision that the Executive Committee might take following issuance of the document.

PROJECT EVALUATION SHEET – NON-MULTI-YEAR PROJECT MEXICO

			M	EXICO					
PROJECT TI	ΓLE(S)				BILATERA	AL/IMPLE	MENT	ING AGENCY	
National methyl bromide phase-out plan (first tranche)				Canada, I	Canada, Italy, Spain and UNIDO				
NATIONAL	CO-ORDINAT	TING AGE	NCY		Ministry of	Ministry of the Environment (SEMARNAT)			
I ATEST REP	ORTED CON	SUMPTIO	N DATA FO	DR ODS A	DDRESSED IN	J PROJEC	T		
A: ARTICLE						TROJEC	.1		
Annex E, MB		894.6							
B: COUNTRY	PROGRAMN	ME SECTO	RAL DATA	A (ODP T	ONNES, 2006,	AS OF JAI	NUARY	2008)	
ODS	Subsector/qu		Subsector/		Subsector/q	Subsector/quantity		ector/quantity	
MB	QPS / 143.1		Non QPS / 72	2.6					
CFC consum	ption remainin	g eligible fo	or funding (ODP tonn	es)				
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CURRENT YI	EAR BUSINESS	PLAN ALL	OCATIONS		Funding	US \$	Phase-	out ODP tonnes	
				UNIDO		1,075,000		187.5	
				Canada		565,000		0	
				Italy		1,000,000		90	
PROJECT TI	TLE:								
ODS to be phas	ed out (ODP tonr	nes):					895		
Project duration	(months):						72		
Initial amount r	equested (US \$):						10,097,564		
Final project co	sts (US \$): (see ta	able below)							
	Incrementa	al Capital Co	st:					12,564,763	
	Contingen	cy (10 %):					1,256,476		
	Incrementa	al Operating	Cost:				-4,598,860		
	Total Proje	ect Cost:					9,222,379		
Local ownershi	p (%):							100	
Export compon	ent (%):						None		
Requested grant (US \$):					9,222,379				
					10.30				
Implementing agency support cost (US \$):					897,291				
Total cost of project to Multilateral Fund (US \$):						10,159,670			
Status of counterpart funding (Y/N):							Y		
Project monitor	ing milestones in	cluded (Y/N)	:					Y	
Cost (US \$)		2008	2	010	2012	2013	<u> </u>	Total	
Canada (project)	500,		500,000	200,000		17,522	1,417,522	
Canada (suppor	/		527	58,527	23,411		25,462	165,927	
Italy (project)		2,000,	000					2,000,000	
Italy (support)		230,	000	000				230,000	
Spain (project)				800,000	800,000		+	1,600,000	
Spain (support) UNIDO (projec	t)	1,000,	000	93,000 2,000,000	93,000	20	04,857	186,000 4,204,857	
UNIDO (projec			000	150,000	75,000		15,364	315,364	
Total project	<i>'</i>	3,500,		3,300,000	2,000,000		22,379	9,222,379	
Total support		363,		301,527	191,411		40,826	897,291	

For individual consideration

SECRETARIAT'S RECOMMENDATION

PROJECT DESCRIPTION

1. On behalf of the Government of Mexico, UNIDO, as the lead implementing agency, has submitted a national methyl bromide (MB) phase-out plan for Mexico for consideration by the Executive Committee at its 54th Meeting. The project will also be implemented with assistance from the Governments of Canada, Italy and Spain. The total cost of the project as originally submitted is US \$10,097,564 plus agency support costs of US \$1,033,832. The project proposes the complete phase-out of 895 ODP tonnes of MB by the end of 2012. The MB baseline for compliance is 1,130.8 ODP tonnes.

Background

2. At its 42nd Meeting, the Executive Committee approved US \$1,105,000 plus agency support costs of US \$131,209 for the implementation of a technical assistance programme, to phase-out 162.4 ODP tonnes of MB used in soil fumigation and post-harvest applications in order to achieve the 2005 allowable level of consumption. The activities to phase out MB in soil fumigation were implemented by the Government of Spain and UNIDO (lead implementing agency), while the activities to phase out MB in post-harvest applications were implemented by the Government of Canada.

MB uses

3. The current consumption of MB used as a soil fumigant is 804.4 ODP tonnes. MB is applied as a soil fumigant for various crops as shown in the table below:

Crop	Total area (ha)	Area using MB	MB (ODP tonnes)	No. of farmers
Strawberries	6,269	1,097	257.6	69
Tomato	35,727	1,023	214.0	90
Chile bell	6,420	161.25	36.7	83
Melon	17,888	570	57.6	94
Berries	3,439	630	148.2	113
Garlic	1172	53.8	12.7	28
Other	10,619	341	41.1	99
Flowers	14,428	205	36.5	118
Total	95,962	4,081	804.4	694

4. Over 90 ODP tonnes of MB are also used by about 1,180 fumigators for fumigation of the following commodities and structures to control a wide range of pests:

Applications	MB (ODP tonnes)
Warehouses and silos containing grain and other stored products	36.2
Flour mills, food factories	34.4
Wooden materials (non-QPS)	4.2
Museums, historical buildings	1.4
Trucks, railcars, ships, airplanes	10.6
Miscellaneous (dry chilli, spices, dried fruit, nuts, tobacco products)	3.6
Total	90.4

Phase-out project

- 5. The national MB phase-out plan has been developed on the basis of the activities implemented through the technical assistance programme approved at the 42nd Meeting of the Executive Committee. The alternative technologies selected for the phase-out of MB as a soil fumigant have been tested in the field. All the alternatives selected have been thoroughly discussed with farmers.
- 6. The proposed alternative technologies include alternative chemicals as soil fumigants alone or with solarization and non-chemical alternatives, namely soilless substrates, steam, grafting and bio-fumigation. For commodities and structure fumigation, the proposed technologies include phosphine in tablets or pellets or combined with heat and carbon dioxide; controlled atmospheres for products requiring rapid treatment. All the proposed technologies will be implemented together with integrated pest management systems. Training programmes in the use of the various alternatives will be provided to major stakeholders.
- 7. The total cost of the national phase-out programme has been estimated at US \$10,097,564, with a cost effectiveness value of US \$11.27/kg.
- 8. Presently, all importers of MB are registered with the Federal Commission for the Protection against Sanitary Risk. All import licenses are subject to approval by the Commission as well as by the Ministry of the Environment and Natural Resources. The Ministry is committed to enforcing a maximum import quota to ensure compliance with the agreed phase-out schedule. Once the project is completed by end of 2013, the Government of Mexico will enact a ministerial decree banning the import of controlled uses of MB.

SECRETARIAT'S COMMENTS AND RECOMMENDATION

COMMENTS

- 9. The 2006 MB consumption reported by the Government Mexico under Article 7 of the Protocol of 722.6 ODP tonnes is already 182.0 ODP tonnes below the Protocol's maximum allowable level of consumption for that year (904.6 ODP tonnes). In 2007, MB consumption increased to 894.6 ODP tonnes.
- 10. Given the range of different climates and production conditions in Mexico, the Secretariat requested further explanations on the technical viability and sustainability of the technologies selected when introduced in various regions of the country. UNIDO, as the lead implementing agency, indicated that the selection of alternatives was based on experience obtained from previous projects carried out in Mexico, as well as from experiences in other countries with similar climatic conditions. About 20 pilot demonstrations had been established by the end of December 2007, and more would be added during the first quarter of 2008, all in different Mexican States, with different climates and social situations for farmers. Furthermore, local experience and economic efficiency has been analyzed in consultation with participating institutions and key growers as well as technical staff and UNIDO.
- 11. The Secretariat also requested an explanation on how the national, state and/or local institutions involved in the project could benefit in the short term (i.e., during implementation of the project) and the long term, once the project has been completed. UNIDO reported that local

experts have been involved as much as possible from the outset. In the case of grafting technology, there is already a professional Mexican team which is highly reputed among farmers. Grafting technology is to be applied by groups of farmers who will acquire the full technology, making them independent of any supplier. Local producer associations and local experts from institutions in each cultivation area are also involved in the project. The national team will assist farmers directly and transfer the technology to them. The use of international experienced experts will be very limited, as they will basically train the trainers and demonstrate the application of the technology.

The Secretariat and UNIDO discussed issues related to the costs associated with the 12. introduction of soilless technology for strawberries, berries and flowers, and grafting for melons, which were higher than the costs of similar projects approved in other countries. On this issue, UNIDO reported that, based on the excellent results obtained during the technical assistance project in the use of grafting for melons, farmers will not accept other alternatives. Soilless technology has been introduced in flowers because the growers already know the technology and it is cheaper than steam, considering the need to transport boilers over long distances, or increase the number of boilers in order to minimize transport costs. With regard to strawberries and berries, chemical alternatives have been proposed in various regions. However, soilless media is proposed where production is too close to urban areas for the use of chemicals to be acceptable. After further discussions on this issue, UNIDO adjusted the cost of the project by reducing the area with the least cost-effective technologies. The adjusted cost of the project amounts to US \$9,222,379, with an overall cost-effectiveness value of US \$10.30/kg. It was also agreed that the Government of Mexico would have flexibility in using the resources available for the phaseout of MB in any crop or application it deems more appropriate.

Agreement

13. The Government of Mexico submitted a draft agreement between the Government and the Executive Committee setting out the conditions for the complete phase-out of MB in Mexico, which is contained in the annex to the present document.

RECOMMENDATION

14. Based on the above considerations, the Executive Committee may wish to consider approval of the project proposal, on the understanding that no more funding will be provided from the Multilateral Fund for the phase-out of controlled uses of methyl bromide in Mexico.

AGREED CONDITIONS FOR THE PHASE-OUT OF METHYL BROMIDE IN MEXICO (DRAFT)

1. The Executive Committee:

- (a) At its 42nd Meeting, approved US \$1,105,000 as the total funds that will be available to Mexico in order to achieve the 2005 allowable level of methyl bromide consumption (phase-out of 162.4 ODP tonnes);
- (b) At its 54th Meeting, approved in principle an additional US \$9,222,379, as the total funds that will be available to Mexico to achieve the complete phase-out of controlled uses of methyl bromide in soil and commodities fumigation (895 ODP tonnes).
- 2. As reported to the Ozone Secretariat, the methyl bromide baseline for compliance for Mexico is 1,130.8 ODP tonnes; the 2007 methyl bromide consumption was 894.6 ODP tonnes. Accordingly, Mexico has achieved compliance with the Montreal Protocol's 2002 freeze obligation and is in compliance with the Protocol's 20 per cent reduction in 2005.
- 3. Reductions in accordance with the terms of the above-mentioned projects and other commitments presented in the project document will ensure that Mexico meets the reduction schedule presented below. In this regard, Mexico will reduce the national consumption of controlled uses of methyl bromide, excluding quarantine and pre-shipment applications, to no more than the following levels of consumption in the years listed below:

Year	Annual phase-out (ODP tonnes)	Allowable consumption (ODP tonnes)
2008	0	895
2009	100	795
2010	120	675
2011	150	525
2012	200	325
2013	325	

- 4. Mexico commits to permanently sustaining the consumption levels indicated above through the use of import restrictions and other policies it may deem necessary.
- 5. Funding for the projects will be disbursed by UNIDO and the Governments of Canada, Italy and Spain and with the following yearly budget breakdown:

Year		Soil fumigation	Commodities	Total funding	
	UNIDO (US\$)	Italy (US\$)	Spain (US\$)	Canada (US\$)	(US\$)
2008	1,000,000	2,000,000		500,000	3,500,000
2010	2,000,000		800,000	500,000	3,300,000
2012	1,000,000		800,000	200,000	2,000,000
2013	204,857			217,522	422,379
Total	4,204,857	2,000,000	1,600,000	1,417,522	9,222,379

6. The Government of Mexico has reviewed the consumption data identified in all sectors covered by the project and is confident that it is correct. Accordingly, the Government is entering into this agreement with the Executive Committee on the understanding that, in case any

additional methyl bromide consumption is identified at a later date, the responsibility to ensure its phase-out will lie solely with the Government of Mexico.

- 7. The Government of Mexico, in agreement with UNIDO and the Governments of Canada, Italy and Spain, will have flexibility in organizing and implementing the project's components that it deems more important in order to meet the methyl bromide phase-out commitments noted above. UNIDO, and the Governments of Canada, Italy and Spain agree to manage the funding for the project in a manner designed to ensure the achievement of the specific MB reductions agreed upon.
- 8. UNIDO shall report annually to the Executive Committee on the progress achieved in meeting the methyl bromide reductions required in all sectors, as well as on annual costs related to the use of the alternative technologies selected and the inputs purchased with the project funds.

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