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EXECUTIVE COMMITTEE OF
THE MULTILATERAL FUND FOR THE
IMPLEMENTATION OF THE MONTREAL PROTOCOL
Sixty-fourth Meeting
Montreal, 25-29 July 2011

Addendum

PROJECT PROPOSAL: BRAZIL

This document is issued to:

- **Add** the project evaluation sheet as contained in Annex I to this document.
- **Replace** US \$12,009,056 **with** US \$14,238,538, and US \$11.09/kg **with** US \$9.80/kg in paragraph 33.
- **Replace** paragraph 44 **with** the following:

44. A number of the enterprises covered under stage I of the HPMP received assistance from the Multilateral Fund for conversion from CFC-11 to HCFC-141b technology. In providing the justification for considering second-stage conversion projects in stage I of the HPMP (as per decisions 60/44 (b) and 62/16), UNDP explained that only 49 of the 273 integral skin/flexible moulded foam enterprises to be converted are second-stage conversion projects, which represents less than 18 per cent of the total enterprises (i.e., 64.4 mt (7.1 ODP tonnes) equivalent to 18.0 per cent of the total consumption). Excluding the second-stage conversion enterprises would have a negative impact on the phase-out strategy given that it is based on conversion of the entire subsector so as to avoid market distortion and to minimize issues related to monitoring and compliance. Furthermore, no new equipment will be provided to second-stage conversion enterprises. Any of the continuous panel foam enterprises covered under the project had received assistance from the Fund. With regard to the small rigid foam enterprises, 23 enterprises with a total consumption of 245.5 mt tonnes (27.0 ODP tonnes) are related to second stage conversion projects (the remaining 75 foam enterprises have a total consumption of 205.2 mt (22.6 ODP tonnes) of HCFC-141b). Based on the information available, the total level of HCFC-141b consumption associated with second stage conversions is 309.9 mt (34.1 ODP tonnes), representing 20.0 per cent of the total consumption of 1,534.1 mt (168.8 ODP tonnes) by all enterprises.

- **Replace 1,038,895 with 1,096,882** in paragraph 61.
- **Replace Table 11 with the following table:**

Table 11. Impact on the climate

Substance	GWP	Tonnes/year	CO2-eq (tonnes/year)
Before conversion			
HCFC-141b	725	1,534.1	1,112,223
Total			
After conversion			
Methyl formate/cyclopentane	20	767.1	15,341
Net impact			(1,096,882)

- **Replace paragraphs 64, 65 and 66 with the following:**

Overall cost of the HPMP

64. Cost issues related to the phase-out of HCFC-141b used by moulded/integral skin enterprises through six systems houses were further discussed and agreed between the Secretariat and UNDP. Trials, testing and project management were adjusted according to the level of HCFC consumption by the foam enterprises. Incremental operating costs were recalculated based on a modified formulation of the systems resulting in a cost of US \$0.12 per kilogram of systems used (instead of US \$0.15 per kilogram as originally proposed). Additional detailed information was also provided on the small rigid foam enterprises, which included 98 foam enterprises (instead of 45 in the original proposal) with a total HCFC-141b consumption of 450.7 mt (49.6 ODP tonnes). All these enterprises will be converted to methyl formate through their systems houses. The total level of funding for the phase-out of HCFC-141b in the foam sector agreed between the Secretariat and UNDP is shown in Table 13. The overall cost-effectiveness of the foam sector is US \$9.80/kg, with the following subsector breakdown: US \$11.67/kg for the flexible moulded/integral skin, and US \$7.83/kg for the rigid foam.

Table 13. Total agreed cost for the conversion of the foam sector in Brazil

Description	No of enterprises	HCFC-141b		Cost (US \$)		
		mt	ODP tonnes	Capital	Operating	Total
Flexible moulded/integral skin through six systems houses						
Amino				225,500		225,500
Foam enterprises	49	62.3	6.8	770,880	150,000	920,880
Arinos				294,800		294,800
Foam enterprises	85	98.5	10.8	1,401,180	236,400	1,637,580
Ariston				154,000		154,000
Foam enterprises	7	12.4	1.4	73,700	30,000	103,700
Ecoblaster				173,800		173,800
Foam enterprises	17	51.8	5.7	467,500	126,000	593,500
Purcom				309,100		309,100
Foam enterprises	101	107.1	11.8	1,859,990	256,320	2,116,310
Shimtek				145,200		145,200
Foam enterprises	14	26.8	2.9	227,480	64,200	291,680
Subtotal	273	358.7	39.5	6,103,130	862,920	6,966,050
Cost-effectiveness (US\$/kg)						19.42
Flexible moulded/integral skin						
Cairu	1	30.0	3.3	159,500	19,800	179,300
Cantegril	1	7.6	0.8	95,150	5,013	100,163
Duoflex	1	27.6	3.0	100,650	18,225	118,875
Espumatec	1	108.9	12.0	220,000	71,894	291,894
Frisokar	1	64.2	7.1	618,200	42,390	660,590

Description	No of enterprises	HCFC-141b		Cost (US \$)		
		mt	ODP tonnes	Capital	Operating	Total
Kalf Plasticos	1	40.0	4.4	100,650	26,400	127,050
Luguez	1	120.0	13.2	149,050	79,200	228,250
Spandy Group	4	32.1	3.5	511,500	21,198	532,698
Subtotal	11	430.4	47.3	1,954,700	284,119	2,238,819
Cost-effectiveness (US\$/kg)						5.20
Continuous panels						
Danica	1	69.6	7.7	797,500	(45,216)	752,284
Isoeste	1	45.0	5.0	429,000	(58,037)	370,963
Barra do Piraí - MBP	1	152.5	16.8	779,900	(18,156)	761,744
Panisol	1	27.0	3.0	390,500	(56,700)	333,800
Subtotal	4	294.1	32.4	2,396,900	(178,109)	2,218,791
Cost-effectiveness (US\$/kg)						7.54
Small rigid foam applications						
Total cost	98	450.7	49.6	3,083,300	529,297	3,612,597
Cost effectiveness (US\$/kg)						8.02
Total	386	1,534.1	168.8	13,538,030	1,498,227	15,036,257
Overall cost-effectiveness (US\$/kg)						9.80

65. UNDP also reiterated that during the preparation of the project proposal the Government of Brazil attempted, to the extent possible, to exclude ineligible foam enterprises (i.e., due to foreign ownership or establishment post the 21 September 2007 cut-off date). However, given the large number of foam enterprises to be converted during stage I (i.e., 386 enterprises), this information will be validated in the field during the implementation of the project. Any enterprise that would be found to be ineligible will not receive assistance from the Multilateral Fund. This information would be reported to the Executive Committee.

66. Given the activities proposed to address HCFC-22 consumption in the servicing sector during stage I of the HPMP, the level of funding for regulatory actions (i.e., regulations limiting leakage during servicing practices, replacement of end-of-life equipment with non-ODS based refrigerants) was adjusted to US \$120,000. Similarly, the funding for the project implementation and monitoring unit was adjusted to US \$950,000 given the support that will be provided to the foam enterprises through the systems houses. The total agreed cost of the activities proposed in stage I of the HPMP to be funded through the Multilateral Fund amounts to US \$20,197,166 (excluding agency support costs). These activities will result in the phase-out of 220.3 ODP tonnes (2,469.9 mt) of HCFCs with an overall cost-effectiveness of US \$8.18/kg, as shown in Table 14. The total amount of HCFCs to be phased-out in stage I of the HPMP represents 16.6 per cent of the estimated baseline for compliance.

Table 14. Overall agreed cost of the HPMP of stage 1 of the HPMP for Brazil

Activity	HCFC to be phased out		Total cost (US \$)
	mt	ODP tonnes	
Regulatory action	26.7	1.5	120,000
Activities in the foam sector	1,534.1	168.8	15,036,257
Activities in the refrigeration servicing sector	909.1	50.0	4,090,909
Project implementation and monitoring unit			950,000
Total	2,469.9	220.3	20,197,166
Cost effectiveness (US\$/kg)			8.18

Draft Agreement

67. A draft Agreement between the Government of Brazil and the Executive Committee for HCFC phase-out is contained in Annex II to the present document.

RECOMMENDATION

68. The Executive Committee may wish to consider:

- (a) Approving, in principle, stage I of the HCFC phase-out management plan (HPMP) for Brazil for the period 2011 to 2015, at the amount of US \$21,865,135, consisting of US \$16,106,257, plus agency support costs of US \$1,207,969 for UNDP, and US \$4,090,909, plus agency support costs of US \$460,000 for the Government of Germany;
 - (b) Noting that the Government of Brazil had agreed to establish an estimated baseline of 1,327.5 ODP tonnes as its starting point for sustained aggregate reduction in HCFC consumption, calculated using actual consumption of 1,415.5 ODP tonnes reported for 2009 and consumption of 1,239.5 ODP tonnes estimated for 2010;
 - (c) Deducting 220.3 ODP tonnes of HCFCs from the starting point for sustained aggregate reduction in HCFC consumption;
 - (d) Approving the draft Agreement between the Government of Brazil and the Executive Committee for the reduction in consumption of HCFCs, as contained in Annex II to the present document;
 - (e) Requesting the Fund Secretariat, once the baseline data were known, to update Appendix 2-A to the draft Agreement to include the figures for maximum allowable consumption, and to notify the Executive Committee of the resulting levels of maximum allowable consumption, and of any potential related impact on the eligible funding level, with any adjustments needed being made when the next tranche was submitted;
 - (f) Approving the first tranche of stage I of the HPMP for Brazil, and the corresponding implementation plan, at the amount of US \$6,152,567, consisting of US \$4,456,257, plus agency support costs of US \$334,219 for UNDP, and US \$1,209,091, plus agency support costs of US \$153,000 for the Government of Germany.
- **Add** the draft HPMP Agreement as Annex II to this document.

Annex I
PROJECT EVALUATION SHEET – MULTI-YEAR PROJECTS
Brazil

(I) PROJECT TITLE	AGENCY
HPMP	UNDP (lead)

(II) LATEST ARTICLE 7 DATA	Year: 2009	1,415.5 (ODP tonnes)
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(III) LATEST COUNTRY PROGRAMME SECTORAL DATA (ODP tonnes)							Year: 2010			
Chemical	Aerosol	Foam	Fire fighting	Refrigeration		Solvent	Process agent	Lab Use	Total sector consumption	
				Manufacturing	Servicing					
HCFC123			0.0		0.4					0.4
HCFC124					7.0					7.0
HCFC141b		374.6				19.7				394.3
HCFC142b		6.8								6.8
HCFC22		2.5		124.7	703.9					831.0
HCFC225										

(IV) CONSUMPTION DATA (ODP tonnes)			
2009 - 2010 baseline estimate:	1,327.5	Starting point for sustained aggregate reductions:	1,327.5
CONSUMPTION ELIGIBLE FOR FUNDING (ODP tonnes)			
Already approved:	0.0	Remaining:	1,107.2

(V) BUSINESS PLAN		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
Germany	ODS phase-out (ODP tonnes)	13.6	33.4		3.6							50.6
	Funding (US \$)	1,260,000	3,071,338	0	330,000	0	0	0	0	0	0	4,661,338
UNDP	ODS phase-out (ODP tonnes)	78.9	78.9	78.9	32.2	3.9	0.0	0.0	0.0	0.0	0.0	272.8
	Funding (US \$)	6,698,647	6,698,647	6,698,647	2,750,382	345,000	0	0	0	0	0	23,191,323

(VI) PROJECT DATA		2011	2012	2013	2014	2015	Total
Montreal Protocol consumption limits (estimate)		n/a	n/a	1,327.5	1,327.5	1,194.8	n/a
Maximum allowable consumption (ODP tonnes)		n/a	n/a	1,327.5	1,327.5	1,194.8	n/a
Project Costs requested in principle(US\$)	UNDP	Project costs	4,456,257	4,000,000	3,000,000	3,000,000	16,106,257
		Support costs	334,219	300,000	225,000	225,000	1,207,969
	Germany	Project costs	1,209,091	2,472,727	0	0	4,090,909
		Support costs	153,000	262,000			460,000
Total project costs requested in principle (US \$)		5,665,348	6,472,727	3,000,000	3,000,000	2,059,091	20,197,166
Total support costs requested in principle (US \$)		487,219	562,000	225,000	225,000	168,750	1,667,969
Total funds requested in principle (US \$)		6,152,567	7,034,727	3,225,000	3,225,000	2,227,841	21,865,135

(VII) Request for funding for the first tranche (2011)			
UNDP		4,456,257	334,219
Germany		1,209,091	153,000

Funding request:	Approval of funding for the first tranche (2011) as indicated above
Secretariat's recommendation:	For individual consideration

Annex II

DRAFT AGREEMENT BETWEEN THE GOVERNMENT OF BRAZIL AND THE EXECUTIVE COMMITTEE OF THE MULTILATERAL FUND FOR THE REDUCTION IN CONSUMPTION OF HYDROCHLOROFLUOROCARBONS

1. This Agreement represents the understanding of the Government of Brazil and the Executive Committee with respect to the reduction of controlled use of the ozone-depleting substances (ODS) set out in Appendix 1-A (“The Substances”) to a sustained level of 1,194.8 ODP tonnes by 1 January 2015 in compliance with Montreal Protocol schedule, with the understanding that this figure is to be revised one single time, once the baseline consumption for compliance has been established based on Article 7 data.
2. The Country agrees to meet the annual consumption limits of the Substances as set out in row 1.2 of Appendix 2-A (“The Targets, and Funding”) in this Agreement as well as in the Montreal Protocol reduction schedule for all Substances mentioned in Appendix 1-A. The Country accepts that, by its acceptance of this Agreement and performance by the Executive Committee of its funding obligations described in paragraph 3, it is precluded from applying for or receiving further funding from the Multilateral Fund in respect to any consumption of the Substances which exceeds the level defined in row 1.2 of Appendix 2-A (“Maximum allowable total consumption of Annex C, Group I Substances”) as the final reduction step under this Agreement for all of the Substances specified in Appendix 1-A, and in respect to any consumption of each of the Substances which exceeds the level defined in rows 4.1.3, 4.2.3, 4.3.3, 4.4.3 and 4.5.3 (remaining eligible consumption).
3. Subject to compliance by the Country with its obligations set out in this Agreement, the Executive Committee agrees in principle to provide the funding set out in row 3.1 of Appendix 2-A (“The Targets, and Funding”) to the Country. The Executive Committee will, in principle, provide this funding at the Executive Committee meetings specified in Appendix 3-A (“Funding Approval Schedule”).
4. In accordance with sub-paragraph 5(b) of this Agreement, the Country will accept independent verification of the achievement of the annual consumption limits of the Substances as set out in row 1.2 of Appendix 2-A (“The Targets, and Funding”) of this Agreement. The aforementioned verification will be commissioned by the relevant bilateral or implementing agency.
5. The Executive Committee will not provide the Funding in accordance with the Funding Approval Schedule unless the Country satisfies the following conditions at least 60 days prior to the applicable Executive Committee meeting set out in the Funding Approval Schedule:
 - (a) That the Country has met the Targets for all relevant years. Relevant years are all years since the year in which the hydrochlorofluorocarbons phase-out management plan (HPMP) was approved. Exempt are years for which no obligation for reporting of country programme data exists at the date of the Executive Committee Meeting at which the funding request is being presented;
 - (b) That the meeting of these Targets has been independently verified, except if the Executive Committee decided that such verification would not be required;

- (c) That the Country had submitted annual implementation reports in the form of Appendix 4-A (“Format of Implementation Reports and Plans”) covering each previous calendar year, that it had achieved a significant level of implementation of activities initiated with previously approved tranches, and that the rate of disbursement of funding available from the previously approved tranche was more than 20 per cent;
- (d) That the Country has submitted and received approval from the Executive Committee for an annual implementation plan in the form of Appendix 4-A (“Format of Implementation Reports and Plans”) covering each calendar year until and including the year for which the funding schedule foresees the submission of the next tranche or, in case of the final tranche, until completion of all activities foreseen; and
- (e) That, for all submissions from the 68th Meeting onwards, confirmation has been received from the Government that an enforceable national system of licensing and quotas for HCFC imports and, where applicable, production and exports is in place and that the system is capable of ensuring the Country's compliance with the Montreal Protocol HCFC phase-out schedule for the duration of this Agreement.

6. The Country will ensure that it conducts accurate monitoring of its activities under this Agreement. The institutions set out in Appendix 5-A (“Monitoring Institutions and Roles”) will monitor and report on implementation of the activities in the previous annual implementation plans in accordance with their roles and responsibilities set out in Appendix 5-A. This monitoring will also be subject to independent verification as described in paragraph 4 above.

7. The Executive Committee agrees that the Country may have the flexibility to reallocate the approved funds, or part of the funds, according to the evolving circumstances to achieve the smoothest reduction of consumption and phase-out of the Substances specified in Appendix 1-A.

- (a) Reallocations categorized as major changes must be documented in advance in an annual implementation plan and approved by the Executive Committee as described in sub-paragraph 5(d) above. Major changes would relate to issues potentially concerning the rules and policies of the Multilateral Fund; changes which would modify any clause of this Agreement; changes in the annual levels of funding allocated to individual bilateral or implementing agencies for the different tranches; and provision of funding for programmes or activities not included in the current endorsed annual implementation plan, or removal of an activity in the annual implementation plan, with a cost greater than 30 per cent of the total cost of the tranche;
- (b) Reallocations not categorized as major changes may be incorporated in the approved annual implementation plan, under implementation at the time, and reported to the Executive Committee in the annual implementation report; and
- (c) Any remaining funds will be returned to the Multilateral Fund upon closure of the last tranche of the plan.

8. Specific attention will be paid to the execution of the activities in the refrigeration servicing sub-sector, in particular:

- (a) The Country would use the flexibility available under this Agreement to address specific needs that might arise during project implementation; and
- (b) The Country and the bilateral and implementing agencies involved will take full account of the requirements of decisions 41/100 and 49/6 during the implementation of the plan.

9. The Country agrees to assume overall responsibility for the management and implementation of this Agreement and of all activities undertaken by it or on its behalf to fulfil the obligations under this Agreement. UNDP has agreed to be the lead implementing agency (the “Lead IA”) and the Government of Germany has agreed to be the cooperating implementing agency (the “Cooperating IA”) under the lead of the Lead IA in respect of the Country’s activities under this Agreement. The Country agrees to evaluations, which might be carried out under the monitoring and evaluation work programmes of the Multilateral Fund or under the evaluation programme of any of the agencies taking part in this Agreement.

10. The Lead IA will be responsible for carrying out the activities of the overall plan with the changes approved as part of the subsequent submissions, including but not limited to independent verification as per sub-paragraph 5(b). This responsibility includes the necessity to co-ordinate with the Cooperating IA to ensure appropriate timing and sequence of activities in the implementation. The Cooperating IA will support the Lead IA by implementing the activities listed in Appendix 6-B under the overall co-ordination of the Lead IA. The Lead IA and Cooperating IA have reached consensus on the arrangements regarding inter-agency planning, reporting and responsibilities under this Agreement to facilitate a co-ordinated implementation of the Plan, including regular co-ordination meetings. The Executive Committee agrees, in principle, to provide the Lead IA and the Cooperating IA with the fees set out in rows 2.2 and 2.4 of Appendix 2-A.

11. Should the Country, for any reason, not meet the Targets for the elimination of the Substances set out in row 1.2 of Appendix 2-A or otherwise does not comply with this Agreement, then the Country agrees that it will not be entitled to the Funding in accordance with the Funding Approval Schedule. At the discretion of the Executive Committee, funding will be reinstated according to a revised Funding Approval Schedule determined by the Executive Committee after the Country has demonstrated that it has satisfied all of its obligations that were due to be met prior to receipt of the next tranche of funding under the Funding Approval Schedule. The Country acknowledges that the Executive Committee may reduce the amount of the Funding by the amount set out in Appendix 7-A in respect of each ODP kg of reductions in consumption not achieved in any one year. The Executive Committee will discuss each specific case in which the Country did not comply with this Agreement, and take related decisions. Once these decisions are taken, this specific case will not be an impediment for future tranches as per paragraph 5 above.

12. The Funding of this Agreement will not be modified on the basis of any future Executive Committee decision that may affect the funding of any other consumption sector projects or any other related activities in the Country.

13. The Country will comply with any reasonable request of the Executive Committee, and the Lead IA and the Cooperating IA to facilitate implementation of this Agreement. In particular, it will provide the Lead IA and the Cooperating IA with access to information necessary to verify compliance with this Agreement.

14. The completion of the HPMP and the associated Agreement will take place at the end of the year following the last year for which a maximum allowable total consumption has been specified in Appendix 2-A. Should at that time activities be still outstanding which were foreseen in the Plan and its subsequent revisions as per sub-paragraph 5(d) and paragraph 7, the completion will be delayed until the end of the year following the implementation of the remaining activities. The reporting requirements as per sub-paragraphs 1(a), 1(b), 1(d), and 1(e) of Appendix 4-A continue until the time of the completion if not specified by the Executive Committee otherwise.

15. All of the conditions set out in this Agreement are undertaken solely within the context of the Montreal Protocol and as specified in this Agreement. All terms used in this Agreement have the meaning ascribed to them in the Montreal Protocol unless otherwise defined herein.

APPENDICES

APPENDIX 1-A: THE SUBSTANCES

Substance	Annex	Group	Starting point for aggregate reductions in consumption (ODP tonnes)
HCFC-22	C	I	792.1
HCFC-141b	C	I	521.8
HCFC-142b	C	I	5.6
HCFC-123	C	I	0.3
HCFC-124	C	I	7.7
Total	C	I	1,327.5

Average of 2009/2010 consumption

APPENDIX 2-A: THE TARGETS, AND FUNDING

		2011	2012	2013	2014	2015	Total
1.1	Montreal Protocol reduction schedule of Annex C, Group I substances (ODP t.)	N/A	N/A	1,327.5	1,327.5	1,194.8	N/A
1.2	Maximum allowable total consumption of Annex C Group I substances (ODP t.)	N/A	N/A	1,327.5	1,327.5	1,194.8	N/A
2.1	Lead IA UNDP agreed funding (US \$)	4,456,257	4,000,000	3,000,000	3,000,000	1,650,000	16,106,257
2.2	Support costs for Lead IA (US \$)	334,219	300,000	225,000	225,000	123,750	1,207,969
2.3	Cooperating IA Germany agreed funding (US \$)	1,209,091	2,472,727	0	0	409,091	4,090,909
2.4	Support costs for Cooperating IA (US \$)	153,000	262,000			45,000	460,000
3.1	Total agreed funding (US \$)	5,665,348	6,472,727	3,000,000	3,000,000	2,059,091	20,197,166
3.2	Total support costs (US \$)	487,219	562,000	225,000	225,000	168,750	1,667,969
3.3	Total agreed costs (US \$)	6,152,567	7,034,727	3,225,000	3,225,000	2,227,841	21,865,135
4.1.1	Total phase-out of HCFC-22 agreed to be achieved under this agreement (ODP tonnes)						51.5
4.1.2	Phase-out of HCFC-22 to be achieved in previously approved projects (ODP tonnes)						0
4.1.3	Remaining eligible consumption for HCFC-22 (ODP tonnes)						740.6
4.2.1	Total phase-out of HCFC-141b agreed to be achieved under this agreement (ODP tonnes)						168.8
4.2.2	Phase-out of HCFC-141b to be achieved in previously approved projects (ODP tonnes)						0
4.2.3	Remaining eligible consumption for HCFC-141b (ODP tonnes)						353.0
4.3.1	Total phase-out of HCFC-142b agreed to be achieved under this agreement (ODP tonnes)						0.0
4.3.2	Phase-out of HCFC-142b to be achieved in previously approved projects (ODP tonnes)						0.0
4.3.3	Remaining eligible consumption for HCFC-142b (ODP tonnes)						5.6
4.4.1	Total phase-out of HCFC-123 agreed to be achieved under this agreement (ODP tonnes)						0.0
4.4.2	Phase-out of HCFC-123 to be achieved in previously approved projects (ODP tonnes)						0.0
4.4.3	Remaining eligible consumption for HCFC-123 (ODP tonnes)						0.3
4.5.1	Total phase-out of HCFC-124 agreed to be achieved under this agreement (ODP tonnes)						0.0
4.5.2	Phase-out of HCFC-124 to be achieved in previously approved projects (ODP tonnes)						0.0
4.5.3	Remaining eligible consumption for HCFC-124 (ODP tonnes)						7.7

APPENDIX 3-A: FUNDING APPROVAL SCHEDULE

1. Funding for the future tranches will be considered for approval not earlier than the second meeting of the year specified in Appendix 2-A.

APPENDIX 4-A: FORMAT OF IMPLEMENTATION REPORTS AND PLANS

1. The submission of the Implementation Report and Plan for each tranche request will consist of five parts:
 - (a) A narrative report regarding the progress since the approval of the previous tranche, reflecting on the situation of the Country in regard to phase out of the Substances, how the different activities contribute to it and how they relate to each other. The report should further highlight successes, experiences and challenges related to the different activities included in the Plan, reflecting on changes in the circumstances in the Country, and providing other relevant information. The report should also include information about and justification for any changes vis-à-vis the previously submitted tranche plan, such as delays, uses of the flexibility for reallocation of funds during implementation of a tranche, as provided for in paragraph 7 of this Agreement, or other changes. The narrative report will cover all relevant years specified in sub-paragraph 5(a) of the Agreement and can in addition also include information about activities in the current year;
 - (b) A verification report of the HPMP results and the consumption of the Substances mentioned in Appendix 1-A, as per sub-paragraph 5(b) of the Agreement. If not decided otherwise by the Executive Committee, such a verification has to be provided together with each tranche request and will have to provide verification of the consumption for all relevant years as specified in sub-paragraph 5(a) of the Agreement for which a verification report has not yet been acknowledged by the Committee;
 - (c) A written description of the activities to be undertaken until the planned submission of the next tranche request, highlighting their interdependence, and taking into account experiences made and progress achieved in the implementation of earlier tranches. The description should also include a reference to the overall plan and progress achieved, as well as any possible changes to the overall plan foreseen. The description should cover the years specified in sub-paragraph 5(d) of the Agreement. The description should also specify and explain any revisions to the overall plan which were found to be necessary;
 - (d) A set of quantitative information for the report and plan, submitted into a database. As per the relevant decisions of the Executive Committee in respect to the format required, the data should be submitted online. This quantitative information, to be submitted by calendar year with each tranche request, will be amending the narratives and description for the report (see sub-paragraph 1(a) above) and the plan (see sub-paragraph 1(c) above), and will cover the same time periods and activities; it will also capture the quantitative information regarding any necessary revisions of the overall plan as per sub-paragraph 1(c) above. While the quantitative information is required only for previous and future years, the format will include the option to submit in addition information regarding the current year if desired by the Country and the Lead IA; and
 - (e) An Executive Summary of about five paragraphs, summarizing the information of above sub-paragraphs 1(a) to 1(d).

APPENDIX 5-A: MONITORING INSTITUTIONS AND ROLES

1. The Ministry of Environment (Ministério do Meio Ambiente (MMA)) is responsible for the overall coordination of activities to be undertaken in the HCFC Phase-Out Management Plan and acts as the National Ozone Unit. The Brazilian Institute of Environment and Natural Renewable Resources (IBAMA) is the enforcement institution linked to MMA which is responsible for carrying out national policies and legislations regarding the control of ozone depleting substances. The National Ozone Unit

(under MMA) monitors at managerial level the consumption of all ozone depleting substances (ODS). IBAMA controls, through the licensing system, the ODS consumption (import and export) and end-user level. The Lead and Cooperating agencies will be responsible of implementing and monitoring the activities under their responsibility. The Government has offered continuity of activities and endorsement for the projects through the institutional support over the next years.

2. Close monitoring of all activities and coordination between stakeholders is an essential element of the HPMP and key to reach compliance. There will be regular coordination meetings with industry stakeholders, HCFC importers, relevant Government stakeholders (i.e. PROZON), various industrial associations, and all sectors involved, in order to enact the necessary agreements and measures to carry out the investment and non-investment activities on time and in a coordinated manner. In the manufacturing sector the implementation process and the achievement of the phase-out will be monitored through site visits at enterprise level.

3. Yearly monitoring will be carried out through the ODS licensing and quota system. Verification site visits will be undertaken by independent international experts and auditors.

APPENDIX 6-A: ROLE OF THE LEAD IMPLEMENTING AGENCY

1. The Lead IA will be responsible for a range of activities. These can be specified in the project document further, but include at least the following:

- (a) Ensuring performance and financial verification in accordance with this Agreement and with its specific internal procedures and requirements as set out in the Country's HPMP;
- (b) Assisting the Country in preparation of the Implementation Plans and subsequent reports as per Appendix 4-A;
- (c) Providing verification to the Executive Committee that the Targets have been met and associated annual activities have been completed as indicated in the Implementation Plan consistent with Appendix 4-A;
- (d) Ensuring that the experiences and progress is reflected in updates of the overall plan and in future annual implementation plans consistent with sub-paragraphs 1(c) and 1(d) of Appendix 4-A;
- (e) Fulfilling the reporting requirements for the annual implementation reports, annual implementation plans and the overall plan as specified in Appendix 4-A for submission to the Executive Committee. The reporting requirements include the reporting about activities undertaken by the Cooperating IA;
- (f) Ensuring that appropriate independent technical experts carry out the technical reviews;
- (g) Carrying out required supervision missions;
- (h) Ensuring the presence of an operating mechanism to allow effective, transparent implementation of the Implementation Plan and accurate data reporting;
- (i) Co-ordinating the activities of the Cooperating IA, and ensuring appropriate sequence of activities;
- (j) In case of reductions in funding for failure to comply in accordance with paragraph 11 of the Agreement, to determine, in consultation with the Country and the Cooperating IA,

the allocation of the reductions to the different budget items and to the funding of each implementing or bilateral agency involved;

- (k) Ensuring that disbursements made to the Country are based on the use of the indicators; and
- (l) Providing assistance with policy, management and technical support when required.

2. After consultation with the Country and taking into account any views expressed, the Lead IA will select and mandate an independent organization to carry out the verification of the HPMP results and the consumption of the Substances mentioned in Appendix 1-A, as per sub-paragraph 5(b) of the Agreement and sub-paragraph 1(b) of Appendix 4-A.

APPENDIX 6-B: ROLE OF THE COOPERATING IMPLEMENTING AGENCY

1. The Cooperating IA will be responsible for a range of activities. These activities are specified in the overall plan further, but include at least the following:

- (a) Providing policy development assistance when required;
- (b) Assisting the Country in the implementation and assessment of the activities funded by the Cooperating IA, and refer to the Lead IA to ensure a co-ordinated sequence in the activities; and
- (c) Providing reports to the Lead IA on these activities, for inclusion in the consolidated reports as per Appendix 4-A.

APPENDIX 7-A: REDUCTIONS IN FUNDING FOR FAILURE TO COMPLY

1. In accordance with paragraph 11 of the Agreement, the amount of funding provided may be reduced by US \$180 per ODP kg of consumption beyond the level defined in row 1.2 of Appendix 2-A for each year in which the target specified in row 1.2 of Appendix 2-A has not been met.