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EXECUTIVE COMMITTEE OF  
THE MULTILATERAL FUND FOR THE  
IMPLEMENTATION OF THE MONTREAL PROTOCOL  
Seventy-seventh Meeting  
Montreal, 28 November - 2 December 2016

**PROJECT PROPOSAL: RWANDA**

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

Phase-out

- HCFC phase-out management plan (stage I, third tranche) UNEP and UNIDO

**PROJECT EVALUATION SHEET – MULTI-YEAR PROJECTS  
Rwanda**

(I) PROJECT TITLE	AGENCY	MEETING APPROVED	CONTROL MEASURE
HCFC phase out plan (Stage I)	UNEP (lead), UNIDO	64 <sup>th</sup>	35% by 2020

<b>(II) LATEST ARTICLE 7 DATA (Annex C Group I)</b>	Year: 2015	3.61 (ODP tonnes)
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<b>(III) LATEST COUNTRY PROGRAMME SECTORAL DATA (ODP tonnes)</b>								<b>Year: 2015</b>	
Chemical	Aerosol	Foam	Fire fighting	Refrigeration		Solvent	Process agent	Lab use	Total sector consumption
				Manufacturing	Servicing				
HCFC-123		0.12							0.12
HCFC-141b		0.22							0.22
HCFC-142b		0.14							0.14
HCFC-22					3.13				3.13

<b>(IV) CONSUMPTION DATA (ODP tonnes)</b>			
2009 - 2010 baseline:	4.10	Starting point for sustained aggregate reductions:	4.10
<b>CONSUMPTION ELIGIBLE FOR FUNDING (ODP tonnes)</b>			
Already approved:	1.44	Remaining:	2.66

<b>(V) BUSINESS PLAN</b>		2016	2017	2018	2019	2020	Total
UNEP	ODS phase-out (ODP tonnes)	0.2		0.2		0.1	0.4
	Funding (US \$)	33,900		33,900		31,640	99,440
UNIDO	ODS phase-out (ODP tonnes)	0.3	0.0	0.0	0.0	0.0	0.3
	Funding (US \$)	59,950	0	0	0	0	59,950

<b>(VI) PROJECT DATA</b>			2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total	
Montreal Protocol consumption limits			n/a	n/a	4.10	4.10	3.69	3.69	3.69	3.69	3.69	2.67	n/a	
Maximum allowable consumption (ODP tonnes)			n/a	n/a	4.10	4.10	3.69	3.69	3.69	3.69	3.69	2.67	n/a	
Agreed funding (US\$)	UNEP	Project costs	42,000	0	40,000	0	0	30,000	0	30,000	0	28,000	170,000	
		Support costs	5,460	0	5,200	0	0	3,900	0	3,900	0	3,640	22,100	
	UNIDO	Project costs	55,000	0	0	0	0	55,000	0	0	0	0	0	110,000
		Support costs	4,950	0	0	0	0	4,950	0	0	0	0	0	9,900
Funds approved by ExCom (US\$)	Project costs	97,000	0	40,000	0	0	0.0	0.0	0.0	0.0	0.0	0.0	137,000	
	Support costs	10,410	0	5,200	0	0	0.0	0.0	0.0	0.0	0.0	0.0	15,610	
Total funds requested for approval at this meeting (US\$)	Project costs						<b>85,000</b>						85,000	
	Support costs						<b>8,850</b>						8,850	

<b>Secretariat's recommendation:</b>	Individual consideration
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## PROJECT DESCRIPTION

1. On behalf of the Government of Rwanda, UNEP<sup>1</sup> as the lead implementing agency, has submitted to the 77<sup>th</sup> meeting a request for funding for the third tranche of stage I of the HCFC phase-out management plan (HPMP), at a total cost of US \$93,850, consisting of US \$30,000, plus agency support costs of US \$3,900 for UNEP, and US \$55,000, plus agency support costs of US \$4,950 for UNIDO. The submission includes a progress report on the implementation of the second tranche, the verification report on HCFC consumption and the tranche implementation plan for 2017 to 2018.

### Report on HCFC consumption

#### *HCFC consumption*

2. The Government of Rwanda reported a consumption of 3.61 ODP tonnes of HCFC in 2015. The 2011-2015 HCFC consumption is shown in Table 1.

**Table 1. HCFC consumption in Rwanda (2011-2015 Article 7 data)**

HCFC	2011	2012	2013	2014	2015	Baseline
<b>Metric tonnes</b>						
HCFC-22	79.80	57.80	56.00	47.60	57.00	68.32
HCFC-123	10.01	5.80	8.30	0.00	5.80	3.00
HCFC-141b	3.80	2.00	4.00	5.10	2.00	1.47
HCFC-142b	7.25	2.20	1.50	1.58	2.20	1.98
<b>Total (mt)</b>	<b>100.86</b>	<b>67.80</b>	<b>69.8</b>	<b>54.28</b>	<b>67.00</b>	<b>74.77</b>
<b>ODP tonnes</b>						
HCFC-22	4.39	3.18	3.08	2.62	3.13	3.75
HCFC-123	0.20	0.12	0.16	0.00	0.12	0.06
HCFC-141b	0.42	0.22	0.44	0.56	0.22	0.16
HCFC-142b	0.47	0.14	0.10	0.10	0.14	0.13
<b>Total (ODP tonnes)</b>	<b>5.48</b>	<b>3.66</b>	<b>3.78</b>	<b>3.28</b>	<b>3.61</b>	<b>4.1</b>

3. HCFC consumption data shows a decreasing trend from 2011 to 2014. In 2015, HCFC consumption increased by 10 per cent but remains within the maximum allowable consumption for that year resulting from the development of the Kigali International Conference Centre which required cooling facilities. A significant decrease of HCFC imports is expected in 2016. All HCFC-22 consumption occurs in the domestic, commercial and industrial air-conditioning sectors.

#### *Country programme (CP) implementation report*

4. The Government of Rwanda reported HCFC sector consumption data under the 2015 CP implementation report which is consistent with the data reported under Article 7 of the Montreal Protocol.

### Progress report on the implementation of the second tranche of the HPMP

5. The licensing and quota system has been established for all ODS, including HCFCs. The Government has amended the legislation to include the accelerated phase-out schedule for HCFCs and a quota system for HCFCs has been introduced since 1 January 2014. The Government of Rwanda issued a ban on the imports of HCFC-based equipment from 1 January 2015.

<sup>1</sup> As per the letter of 18 October 2016 from the Rwanda Environment Management Authority to UNEP.

6. The activities implemented under the second tranche are summarized as follows:
- (a) Three training workshops for 60 customs officers on the identification of HCFC refrigerants, illegal trade, and on the importance of the ozone layer in general;
  - (b) Review of the Customs training modules and HCFC-22 phase-out schedules included in the training curricula;
  - (c) One training workshop for 40 refrigeration servicing technicians on good servicing practices, recovery and recycling, and safe use of hydrocarbon (HC);
  - (d) Update of the training curricula for the technical college to emphasize the safe handling of HC refrigerants;
  - (e) Preparation of an action plan for the implementation of the certification scheme for refrigeration and air-conditioning (RAC) technicians; and
  - (f) A press conference on the impact of ozone depletion on human health.

#### Level of fund disbursement

7. As of September 2016, of the US \$137,000 so far approved, US \$112,000 had been disbursed (US \$57,000 for UNEP and US \$55,000 for UNIDO). The balance of US \$25,000 will be disbursed in 2016 (Table 2).

**Table 2. Financial report of stage I of the HPMP for Rwanda (US \$)**

Agency	First tranche		Second tranche		Total approved	
	Approved	Disbursed	Approved	Disbursed	Approved	Disbursed
UNEP	42,000	22,000	40,000	35,000	82,000	57,000
UNIDO	55,000	55,000	0	0	55,000	55,000
<b>Total</b>	<b>97,000</b>	<b>77,000</b>	<b>40,000</b>	<b>35,000</b>	<b>137,000</b>	<b>112,000</b>
<b>Disbursement rate (%)</b>	80		88		82	

#### Implementation plan for the third tranche of the HPMP

8. The following activities will be implemented:
- (a) Two training workshops for 30 customs and law enforcement officers on the identification of HCFC refrigerants and illegal trade (UNEP) (US \$10,000);
  - (b) Strengthening of three regional retrofitting centres through provision of technical assistance, equipment (e.g. HC air-conditioners and tools) and incentive programme for reduction of HCFCs and carbon emissions in the RAC sector (UNIDO) (US \$55,000);
  - (c) Strengthening of vocational and technical institutions and three training workshops for 40 refrigeration technicians on refrigeration good practices including safe use of HC refrigerants (UNEP) (US \$10,000); and
  - (d) Monitoring, coordination and reporting of HPMP activities (UNEP) (US \$10,000).

## SECRETARIAT'S COMMENTS AND RECOMMENDATION

### COMMENTS

#### Progress report on the implementation of the second tranche of the HPMP

##### *Verification report*

9. During the project review process, UNEP decided to withdraw the verification report in order to address issues raised by the Secretariat relating to data inconsistency. The revised verification report is planned to be submitted by 11 November 2016.

##### *Legal framework*

10. The Government of Rwanda has already issued HCFC import quota for 2016 at 3.69 ODP tonnes.

##### *Refrigeration servicing sector*

11. With regard to the long-term sustainability of the training programmes, UNEP indicated that the training module on good practices in refrigeration and safe handling of HC is part of the training curricula of Vocational Training Centres and polytechnic schools. The country strengthened RAC Association and handed over capacity building activities for technicians to the Association.

12. Concerning the retrofitting activities to HC refrigerants UNEP reported that the Government is well aware of the relevant decisions of the Executive Committee<sup>2</sup>. According to UNEP, retrofits to HC are not taking place outside the HPMP in Rwanda; however, the Government has engaged on training for RAC technicians on safe handling of HC refrigerants. The establishment of standard and codes of practice for HC refrigerants will be completed during the third tranche. Currently, HC-based appliances are beginning to increase but the majority of appliances are now HFC-based.

#### Conclusion

13. The Secretariat noted that the country's import licensing and quota system is operational and will enable HCFC consumption reductions in line with the Montreal Protocol's phase-out schedule. The HPMP is progressing and the 2015 consumption level was below the maximum allowable consumption set in the Agreement with the Executive Committee. The project is progressing and 82 per cent of the funds approved so far have been disbursed. The activities already implemented and those planned under the third tranche will further strengthen the servicing sector and ensure the long term sustainability of the activities. As explained in paragraph 9 above, UNEP decided to withdraw the verification report for Rwanda in order to address issues related to data inconsistency detected by the Secretariat.

### RECOMMENDATION

14. The Executive Committee may wish to consider:

- (a) Noting the progress report on the implementation of the second tranche of stage I of the HCFC phase-out management plan of (HPMP) for Rwanda; and
- (b) Approving the third tranche of stage I of the HPMP for Rwanda and the corresponding 2017-2018 tranche implementation plan, at the amount of US \$93,850, consisting of US \$30,000, plus agency support costs of US \$3,900 for UNEP; and US \$55,000, plus

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<sup>2</sup> Decisions 72/17 and 73/34.

agency support costs of US \$4,950 for UNIDO, on the understanding that:

- (i) If the Government of Rwanda were to decide to proceed with retrofits and associated servicing to flammable and toxic refrigerants in refrigeration and air-conditioning equipment originally designed for non-flammable substances, it would do so assuming all associated responsibilities and risks and only in accordance with the relevant standards and protocols; and
  - (ii) The approved funds will not be transferred to UNEP and UNIDO until the Secretariat has reviewed the verification report and confirmed that the Government of Rwanda is in compliance with the Montreal Protocol and the Agreement between the Government and the Executive Committee.
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