

TERMINAL REPORT
Phase XII, 1/2018-12/2019

AND
REQUEST FOR EXTENSION OF INSTITUTIONAL STRENGTHENING FUNDING
Phase XIII, 1/2020 to 12/2021

Sections 1 to 12 and 15 to be completed by the country concerned prior to transmission to the implementing agency for comments in 14.

1. Country: **MALAYSIA**
2. National implementing agency / ozone unit: **Department of Environment, Ministry of Energy, Science, Technology, Environment and Climate Change, Government of Malaysia**
3. Implementing agency: **UNDP**
4. Institutional strengthening (IS) project phases (approved):

Phase	Duration (dd/mm/yy)	MLF Funding (Approved) (US\$)	MLF Funding (Disbursed) (US\$)
Phase I	January 1995– December 1997	322,520	306,817
Phase II	January 1998– December 1999	215,000	209,447
Phase III	January 2000– December 2001	215,000	215,000
Phase IV	January 2002– December 2003	215,000	215,000
Phase V	January 2004– December 2005	279,500	259,000
Phase VI	January 2006– December 2007	279,500	121,675
Phase VII	January 2008– December 2009	279,500	279,500
Phase VIII	January 2010– December 2011	279,500	279,500
Phase IX	January 2012– December 2013	279,500	279,500
Phase X	January 2014– December 2015	279,500	279,500
Phase XI	January 2016– December 2017	357,760	357,760
Phase XII	January 2018– December 2019	357,760	220,763*

* The disbursement as of 31 August 2019. The balance amount will be disbursed for planned activities by the end of December 2019.

5. a) Reporting period (mm/yy to mm/yy): **January 2018 to December 2019**
- b) Requested (phase funding (US \$), and period):
Phase XIII (US\$ 357,760) for January 2020 to December 2021

6. Data reporting:

Reporting requirement	Reported		Years reported	Years submitted
	yes	no		
Article 7	✓		2018	2019
Country programme implementation	✓		2018	2019

7. Describe the role and position of the National Ozone Unit (NOU) within the national administration, the way its work is supervised and its access to senior decision-makers (this may include cooperation with steering committees, advisory groups or inter-ministerial bodies).

The NOU is within the organization of the Department of Environment (DOE) under the Ministry of Energy, Science, Technology, Environment and Climate Change. The NOU has direct access to senior decision makers such as the Director General of Environment. A National Steering Committee on Ozone Protection, which comprises government-related agencies, representatives of industries and NGOs, was established since 1989, chaired by the Secretary General of the Ministry.

8. Indicate the total number staff in the NOU:

- How many are paid under the IS? 4 Full time Half time
- How many are paid by the Government? 7 Full time Half time

9. Is the unit fully staffed?

YES NO

If no, explain: Vacant Post of Assistant Environmental Control Officer yet to be filled due to Promotion

10. Please provide details on the status of the implementation of the activities approved from the previous IS phase and planned activities for the requested phase. Please add specific performance indicators.

Objectives (please add as necessary)	Activities in current phase	Achievements in current phase (specify XII/1/2018-12/2019)	Planned activities in next phase (specify XII/1/2020-12/2021)	Expected results for next phase
Objective 1: Adoption/implementation of ODS legislation and regulation to control and monitor ODS consumption				
Introduction of licensing and quota system for HCFCs	Processing applications online for the approval of import and export of HCFC as well as export of polyol with HCFC 141b	<p>2018 – 265 were approved out of 282 applications from 16 registered importers.</p> <p>2019 – (As of September) 185 approvals out of 191 applications from 16 registered importers.</p>	<p>- Continue processing application online for approval of import and export of HCFC</p> <p>Performance indicator: Quota for import set for the year</p>	Compliance with the regulations and achievement of targeted reduction of HCFC consumption.

	Organize bi-annual meetings as scheduled	Ban the export of HCFC-141b contained in pre-blended polyols by 31 December 2018 Bi-annual meetings to decide on quota given to qualified importers were held on 4 July 2018, 22 November 2018 and 26 June 2019.		Reduction of HCFC imports according to the obligated amount.
Enforcement of control measures to sustain ODS phase out	Enforcement visits to importers, MAC and RSS workshops Carry out technicians training as required by the law	2018: - 51 ATC throughout the country - Trained technicians: 2996 - Total competent technicians: 2515 2019 (January–September): - 51 ATC for technician trainings - Trained technicians of 2718 - Competent technicians 2198 - 2 Training of Master Trainers: 69 2018-19: - Total Master Trainers: 69	Continue monitoring activities	Ensured and monitored quality servicing by competent technicians.
Monitoring illegal ODS trade (all ODS)	Working closely with Customs Department, organize training for Customs officers	Training provided to 85 officers including Customs and DOE enforcement officers.	Continue to work closely with Customs Department to eliminate illegal importation.	Good collaboration with Customs Department to eliminate illegal imports
Ratification of amendments to the Montreal Protocol	Ratified amendments	Kigali amendment ratification is in progress 2019 11th Jan 2019 Focus Group review meeting with chemical importers and suppliers at the DOE 6th Mac 2019 Discussions with pharmaceutical regulatory agency, associations and industry on Kigali Amendment 3rd Apr 2019 Meeting and discussion with Pharmaceutical Association of Malaysia (PhAMA) on Kigali	Kigali amendment will be ratified Discussions, Dialogues, Meeting and Consultation with relevant stakeholders are being held throughout the year	Malaysia is in Group 1 of the Kigali Amendment. Baseline will start from 2020, 2021 and 2022 and freeze on 2024.

		<p>Amendment</p> <p>8th Apr 2019 Meeting and discussion with the Malaysian Organisation of Pharmaceutical Industries (MOPI) on Kigali Amendment</p> <p>30th Apr 2019 Meeting and discussion with Daikin Malaysia on Kigali Amendment</p> <p>7th May 2019 - Meeting and discussion with Unique Fire Industry Sdn Bhd on Kigali Amendment</p> <p>27th June 2019 Consultation with Chemical importers Westech Chemicals Sdn Bhd on Kigali Amendment</p> <p>11th June 2019 Meeting with 3M Malaysia</p>		
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Objective 2: Efficient and timely data collection and reporting

Monitoring customs import/export	Verification visit, data auditing and training for enforcement officers	Verification visits to 10 registered importers in 2018 and to 12 registered importers in 2019 (Until Sep 2019)	Continue to carry out monitoring and enforcement activities	Compliance with the regulations and quota set for HCFC importation
Article 7 data reporting	<u>Data obtained from Customs Department and Statistics Department</u>	<u>2017 data submitted on 4 June 2018 and 2018 data submitted on 21 June 2019</u>	Timely preparation and submission for 2020 and 2021 Performance indicator: A7 data submitted on time	Compliance with data reporting
Country programme data reporting	<u>Data obtained from Customs Department and Statistics Department</u>	<u>2017 data submitted on 28 Mei 2018 and 2018 data submitted on 30 April 2019</u>	Timely preparation and submission for 2018 and 2019 Performance indicator: CP data submitted on time	Compliance with data reporting

Objective 3: Consultations and coordination with other national agencies/stakeholders

Steering Committee	NSC Meetings will be held as scheduled	47 th NSC meeting held on 22 Mei 2018 48 th NSC meeting held on 20	NSC meetings and PSC meetings will be held as scheduled	Better cooperation from all agencies
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		Feb 2019		to implement policies and strategies for HPMP
	Technical Committee will meet to discuss quota allocation for 2018 and 2019	22 November 2018 – Quota Technical Committee Meeting finalized 2018 quota allocation	Technical Committee will meet to discuss quota allocations for 2020 and 2021	Quota allocation to meet the reduction target for 2016 onwards
	HPMP PSC meetings will be held as scheduled.	26 June 2019 - Quota Technical Committee Meeting to update the progress of 2019 allocation PSC Meeting was held on 20 December 2018 PSC Meeting was held on 15 July 2019	HPMP PSC meetings were held as scheduled.	Continuous monitoring of progress on HPMP implementation Continuous monitoring and enforcement
	Consultation with Royal Customs of Malaysia	Meetings held from time to time especially on implementation of import/export of ODS	Continue consultation with Royal Customs of Malaysia	
Industry associations	Consultation meeting with industries held for Montreal Protocol related activities	6 Disember 2018 – Seminar on Kigali Amendmend with the industries and industry association (FMM). 29 November 2018 - Seminar On Recovery And Reclamation Of Fluorocarbons For Protection Of Ozone Layer And Mitigation Of Global Warming 17 – 20 October 2018 – Participate in Greentech & Eco Products Exhibition & Conference Malaysia (IGEM 2018)	Continue consultation meetings with industries on proposed regulatory actions about the Montreal Protocol Organize briefings on the progress of ongoing HPMP projects	Better cooperation and participation from industries and stakeholders to phase out ODS and the related amendment.
	Establishment of Flammable Refrigerant Standard	Committee members involved actively in the establishment of the Standards with SIRIM and other related stakeholders. Held 6 series of Seminar on Halon Management and MS:2678:2017 Flammable Refrigerant System - Code Of		

		Practice on 4,11,12,17,19 April 2018 and 10 Mei 2018		
Objective 4: Supervision of timely implementation of phase-out activities and reduction in ODS consumption				
HCFC phase-out management plan preparation/implementation	Monitoring of ongoing HPMP projects in the servicing sector - Enforcement of the amended Refrigeration Management regulations.	HPMP Stage I project successfully completed in 2018. Target successfully met. HPMP Stage II project initiated and the phase out projects is ongoing.	Continue monitoring of ongoing HPMP projects The Amendment is yet to be gazetted. DOE state offices continue to enforce and monitor the present EQA (Refrigerant Management) regulation.	Successful Implementation of HPMP II
Objective 5: Awareness raising and information exchange				
Information dissemination to key stakeholders	Organize seminar/workshop, including roadshows on HPMP Stage-II, on alternative technologies for HCFC phase-out. Organize awareness activities	2018 Held 6 series of Seminar on Refresher Course For Technicians In Mobile Air Conditioner Sector (Mac) And Reclamation In Refrigerant Management on: 14, 21, 28 January 2018, 4 & 25 February 2018 and 5 March 2018 23 -26 April 2018 - Refresher Course For Master Trainers For Technicians In Refrigeration And Air Conditioning Servicing Sector 25 September 2018 - Workshop On Recycle And Reclaim Of Refrigerants And The Emerging Alternatives In The Market (Refrigeration And Air Conditioning Sector) 25 September 2018 - Workshop On Safety And Alternatives On	Continue activities related to awareness generation	Enhanced awareness on ODS phase-out and ozone layer protection, especially in terms of the implementation of HPMP Stage-II and its linkage to climate change.

		<p>Blowing Agent For Malaysian Industries In Foam Sector</p> <p>10 - 14 December 2018 –</p> <p>Meeting & Workshop On Modul Tool Kit And Revision Of Exam Questions On CSTP</p> <p>2019</p> <p>9 – 11 April 2019 - Training for Master Trainer (MARA)</p> <p>15 – 18 April 2019 – Hands on Training on Flammable Refrigerants by Centre of Excellence (UNIKL-MFI)</p> <p>29 August 2019 - Consultation and Meeting to Kick Start with Second Group of Foam Recipients</p> <p>23 – 27 September 2019 – Course for New Master Trainer under CSTP Program</p> <p>24 September 2019 – Seminar Cooling Technology In Refrigeration & Air Conditioning Sector (Food & Beverages Industry)</p> <p>23 – 25 September 2019 – Hands on Training on Flammable Refrigerants by Centre of Excellence (UNIKL-MFI)</p> <p>2018</p> <p>Awareness bunting :</p> <ul style="list-style-type: none"> - HPMP Stage II - Recycle & Reclaim - R & R Brochures (3000) - CSTP Brochures (3000) <p>Paper bag (1000 bag)</p> <p>Notebook (1000 book)</p> <p>Thermos (1000)</p>		
	<p>Development of publications and knowledge products</p>			

		<p>Poster (1000) Pens (1000) Foldable & Recycle Bag (1000) Ozone Buletin (1000) Thumb drive (500 unit)</p> <p>Distributed during seminars, Technician trainings and State offices</p> <p>2019</p> <p>Slip Slap Slop Book (3000) Thumb drive (300) Recycle Bags (3000) Towels (1000) Bottles with No Single use Plastic theme (3000) Note Book (1000 unit) Posters (1000) Ozone Buletin (1000)</p>		
International Ozone Day	<p>Ozone Day Message in major newspapers</p> <p>Seminar/ awareness activities</p>	<p>2018</p> <p>- World Ozone Day launched by Secretary General of Energy, Science, Technology & the Environment (MESTECC) on 25 September 2018 at Saujana Hotel, Subang.</p> <p>- World Ozone Day Celebration 2018 message posted on major newspapers, DOE websites and Social Media (FB & IG)</p> <p>Interview with Director of Air Division at National Radio to inform on the Ozone Day Celebration on 16 September</p> <p>Organise Short Video Competition on Ozone Layer Protection for Public Participation in Conjunction with the Celebration</p> <p>Organise Colouring Contest for School Children on Ozone Layer Protection in Conjunction with the Celebration</p>	<p>World Ozone Day Message in DOE website and social media (FB & IG)</p> <p>Seminar /awareness activities</p>	<p>Enhanced awareness on ODS phase-out and HFC phase down and its linkage to climate change, and country's obligation to the Montreal Protocol</p>

		<p>Exhibition by Government Agencies, Industries & Association on the phasing out of ODS & the use of alternatives to ODS in HVAC</p> <p>2019:</p> <p>World Ozone Day launched by Director General of Environment on 24 September 2019 at Tenera Hotel, Bangi.</p> <p>- World Ozone Day Celebration 2018 message posted on DOE websites and Social Media (FB & IG)</p> <p>Exhibition by Government Agencies, Industries & Association on the phasing out of ODS & the use of alternatives to ODS</p> <p>World Ozone Day Celebration was celebrated by the State Office:</p> <p>KL - 12 Sept Terengganu - 14 & 21 Sept Negeri Sembilan - 13 Sept Pahang - 28 Sept Malacca - 7 & 24 Sept Sabah – 19 Sept Sarawak - 19 Sept Perlis – 14 Sept Johor - 20 Oct Perak - 2 Oct Pulau Pinang - 29 Oct</p>		
Objective 6: Regional cooperation and participation to Montreal Protocol meetings				
Regional network participation	Participate in meetings/trainings to be held in 2018 and 2019	<p>2018:</p> <p>15 - 19 January 2018 - Inter Regional Network Meeting (Paris)</p> <p>8 -10 April 2018 - Joint Meeting of NOU & Back to back with ozone2Climate Industry Roadshow (China)</p> <p>Twinning Workshop on Energy Efficient Refrigeration & Air</p>	Continue participation in meetings/trainings to be held in 2020 and 2021	<p>Capacity building, knowledge enhancement especially for new ozone officers</p> <p>Sharing of experience among the NOU officers in the region and</p>

		<p>Conditioning (China)</p> <p>9 - 10 July -Workshop on Energy Efficiency While Phasing Down HFCs (Vienna)</p> <p>4 September -ATMOSphere Asia Conference 2018 (Singapore)</p> <p>8 - 10 October - Green Supply Workshop (Indonesia)</p> <p>2019:</p> <p>18 – 22 February - 2nd Inter Regional Thematic Network Meeting & EE Workshop (Paris)</p> <p>30 July – 3 August - SEAP Network Meeting (Philippines)</p> <p>11-15 February – 13th EAP ODES Workshop (Bangkok)</p>		<p>knowledge enhancement on alternative technologies</p>
Open-ended Working Group /Meeting of the Parties	Participation in OEWG, MOP and other Montreal Protocol Meetings	<p>2018</p> <p>Participated in the 40th Session of the Open-ended Working Group of the Parties (OEWG 40) in Vienna, Austria, from 9-14 July 2018.</p> <p>Participated in the 30th Meeting of the Parties (MOP 30) from 5-9 November 2018 in Quito, Ecuador</p> <p>2019 (upto Sep 2019):</p> <p>Participated in the 41st Meeting of the Open-ended Working Group (OEWG 41) of the Parties to the Montreal Protocol from 1-5 July in Bangkok</p>	<p>Participation in OEWG, MOP and other Montreal Protocol Meetings</p> <p>Performance indicator: Participation in network and Montreal Protocol meetings (target to participate each year)</p>	<p>Keep informed of the new development on HCFC and HFC alternatives, and Montreal Protocol-related decisions that may affect industrial development.</p>

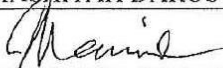
11. Financial report:

Item of expenditure	Budget for current phase (US\$)	Disbursement (for current phase) (US\$) (as of 30 Sep 2019)		Estimated budget (for requested phase) (US\$)	Government funding (in kind contribution) (US\$)	
		Actual	Obligated		Current phase	Requested phase
Staff (including consultants)	70,000	24,999	45,001	70,000	156,000	156,000
Equipment	25,000	0	25,000	25,000	0	0
Operational cost (i.e. meetings, consultations, etc.)	180,000	166,961	13,039	180,000	10,000	10,000
Public awareness	60,000	22,669	37,331	60,000	0	0
Other	22,760	13,339	9,421	22,760	0	0
TOTAL	357,760	227,968	129,792	357,760	166,000	166,000

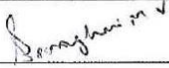
12. Please evaluate the IS in meeting the following indicators:

Indicator	Evaluation			Comments
	Very good	Satisfactor y	Poor	
1. Effectiveness of import control measures	✓			Since 2013, the Online Licensing System has been implemented to facilitate approval for HCFC imports according to the quota given to the registered companies. The monitoring system of ODS imports and exports is an ongoing activity and is functioning well. For the years 2013 – 2018, Malaysia has achieved their compliance targets for consumption as per agreement with Executive Committee of the Montreal Protocol. It reflects that the Government has a comprehensive control mechanism through a permit system and close interface with customs for controlling and monitoring HCFCs.
2.Integration of ozone protection issues into national plans	✓			Ozone layer protection issue is incorporated into the national strategy and resulted in the amendment of the Customs Acts 1967 and the Environmental Quality Acts 1974 to control import and export of ODS and prohibit venting of refrigerants.
3.Completion of phase-out projects	✓			In May 2018, the stage I of HPMP was successfully completed. The project is closed financially in May 2019 as required and also PCR is submitted as per due date. The successful implementation of HPMP included HCFC phase out in 13 PU Foam enterprises, capacity building of 4 system houses, setting up of 6 reclaim centres, replacement of 82 HCFC based residential ac units, demonstration of CO2 system in super market, distribution of tools/equipment to technicians, setting up of 51 ATC (Authorised training centres), training of 6000 technicians, training of custom and enforcement officers and many awareness activities for stakeholders. The HPMP I successfully met its HCFC phase out target and phase out 111.85 ODP tonnes.
4.Efficient data reporting	✓			The NOU has submitted the required reports to the Ozone Secretariat and MLFS in a timely manner.

13. Government endorsement:

Action plan authorized by (name):	MASHITAH DARUS
Signature of authorising authority:	
Title:	DIRECTOR OF AIR DIVISION
Supervising Organization/Agency/Ministry:	DEPARTMENT OF ENVIRONMENT MALAYSIA
Date:	4.10.2019

14. Submission of action plan:

Name of implementing agency:	UNDP
Name of Project Officer:	Manisha Sanghani
Signature of Project Officer:	 5 10 2019
Date:	
Comments of the implementing agency:	<p>Malaysia successfully implemented IS-XII and the country is in compliance with the HCFC phase-out target under the Montreal Protocol. Required regulation is in place to ensure sustainability of ODS phase-out. The HPMP Stage I has successfully completed and closed as per plan. The Foam sector technology and RAC servicing sector technical assistance were provided effectively. The NOU also participated in most of the network meetings to ensure knowledge exchange and keep them updated on Montreal Protocol activities.</p> <p>In the next IS Phase XIII, Malaysia is expected to continue to strengthen the national management capacity to effectively implement and monitor HCFC phase-out, to enforce the HCFC policies and regulations, and to sustain awareness and commitment on Montreal Protocol and ODS phase-out. The HPMP II implementation is ongoing.</p>