

GEF-6 REQUEST FOR PROJECT ENDORSEMENT/APPROVAL

PROJECT TYPE: Medium-sized Project

TYPE OF TRUST FUND:GEF Trust Fund

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PART I: PROJECT INFORMATION

Project Title: Application of Green Chemistry in Viet Nam to support green growth and reduction in the use and release of POPs/harmful chemicals						
Country(ies): Viet Nam GEF Project ID: ¹ 9379						
GEF Agency(ies):	UNDP (select) (select)	GEF Agency Project ID: 5723				
Other Executing Partner(s):		Submission Date:	10 April 2017			
GEF Focal Area (s):	Chemicals and Wastes	Project Duration (Months)	36			
Integrated Approach Pilot	IAP-Cities IAP-Commodities IAP-	Food Security Corporate Pr	ogram: SGP			
Name of Parent Program	[if applicable]	Agency Fee (\$)	189,981			

A. FOCAL AREA STRATEGY FRAMEWORK AND OTHER PROGRAM STRATEGIES²

Focal Area		Trust	(in	\$)
Objectives/Programs	Focal Area Outcomes	Fund	GEF Project Financing	Co- financing
(select) CW-1 Program 1 (select)	Outcome 1.2: Innovative technologies are successfully demonstrated, deployed and transferred	GEFTF	430,000	2,000,000
(select) CW-2 Program 3 (select)	Outcome 3.1: Quantifiable and verifiable tonnes of POPs eliminated or reduced	GEFTF	1,100,000	5,400,000
(select) CW-2 Program 4 (select)	Outcome 4.1: Mercury is reduced	GEFTF	469,800	1,000,000
(select) (select) (select)		(select)		
(select) (select) (select)		(select)		
(select) (select) (select)		(select)		
(select) (select) (select)		(select)		
(select) (select) (select)		(select)		
	Total project costs		1,999,800	8,400,000

B. PROJECT DESCRIPTION SUMMARY

Project Objective: The proposed project aims to create the enabling environment for the introduction of Green Chemistry in Viet Nam and introduce Green Chemistry applications in productive sectors with the purpose of reducing the use and release of chemicals controlled under MEAs. The project also expects to result in a reduction in the use and release of chemicals of concern not covered under MEAs, as well as improve energy and natural resource efficiency and generate Green House Gas (GHG) release reduction co-benefits in the sectors and industries supported by the project.

			ect Outcomes Project Outputs		(in \$)	
Project Components/	Financing	Project Outcomes			GEF	Confirmed
Programs	Type ³	i rojeci Outcomes	Troject Outputs	Fund	Project	Co-
					Financing	financing
Component 1:	TA	Outcome 1.1 –	Output 1.1.1 National	GEFTF	250,000	400,000
Developing the		Enabling Environment	institutional capacity for			

¹ Project ID number remains the same as the assigned PIF number.

² When completing Table A, refer to the excerpts on <u>GEF 6 Results Frameworks for GETF, LDCF and SCCF</u> and <u>CBIT programming directions</u>. ³ Financing type can be either investment or technical assistance.

Engling Englisher t		for Adaptic - f C	Cream Chamister			
Enabling Environment for Green Chemistry		for Adoption of Green Chemistry Practices	Green Chemistry adoption assessed			
in Viet Nam.		Established	Output 1.1.2 Regulatory			
		Lstablished	and policy assessment			
			pertaining to Green			
			Chemistry and POPs			
			completed and gaps			
			identified.			
			Output 1.1.3 Specific			
			standards and			
			regulations on Green			
			Chemistry, including			
			incentive scheme,			
			developed.			
			Output 1.1.4 Green			
			Chemistry incentives			
			introduced following			
			Cost-Benefit Analyses			
			(CBAs).			
			Output 1.1.5 A network			
			of GC experts and			
			institutional expertise			
			created through capacity			
			building and training.			
Component 2:	ТА	Outcome 2.1 –	Output 2.1.1 Awareness	GEFTF	200,000	1,660,000
Promote awareness on		Awareness on GC and	on Green Chemistry			
Green Chemistry and		its guiding principles	created among decision			
the benefits of the		increased to a level	makers and			
application of Green		necessary to support a	stakeholders.			
Chemistry and its		shift to GC	Output 2.1.2 Corporate			
guiding principles		application.	Social Responsibility			
(Implemented by			(CSR) Green Chemistry initiatives initiated.			
MOIT and MONRE)			Output 2.1.3 Green			
			Chemistry extra-lecture			
			integrated in the			
			universities and MOIT			
			training institutes .			
			Output 2.1.4. InfoTech			
			exhibition: MOST and			
			commercial/trade			
			promotion of advance			
			tech countries.			
Component 3:	ТА	Outcome 3.1 - 15 g-	Output 3.1.1 In-depth	GEFTF	1,200,000	6,040,000
Introduce Green		TEQ/a of UPOPs	GC assessments		1,200,000	0,010,000
Chemistry approaches		releases, 1 tonne of	concluded of priority			
into priority sectors		POPs, 0.002 tonnes of	production/manufacturin			
and at least 2 entities		mercury reduced	g sectors.			
		through the	Output 3.1.2 Technical			
		introduction of GC in	tools and guidance			
		priority sectors.	developed for			
			introduction of Green			
			Chemistry in priority			
			sectors.			
			Output 3.1.3 Green			
			Chemistry approaches			
			introduced in at least 2			

			entities.			
Component 4: Project Monitoring and Evaluation and Dissemination of Project Results, Lessons Learned and Experiences	ТА	Outcome 4.1 - Project results monitored, adaptive management applied in response to needs identified and findings extracted. Outcome 4.2 - Lessons-learned, experiences, and best practices extracted and disseminated at national, regional and global level.	Output 4.1.1 Adaptive management applied in response to needs, annual and PIR findings. Output 4.2.1 Lessons- learned, best practices and experiences collected and disseminated at national, regional and global level to support replication.	GEFTF	168,000	
	(select)			(select)		
	(select)			(select)		
	(select)			(select)		
	(select)			(select)		
	Subtotal					8,100,000
	Project Management Cost (PMC) ⁴					300,000
			Total project costs		1,999,800	8,400,000

C. CONFIRMED SOURCES OF <u>CO-FINANCING</u> FOR THE PROJECT BY NAME AND BY TYPE

Sources of Co- financing	Name of Co-financier	Type of Cofinancing	Amount (\$)
GEF Agency	UNDP	Grants	200,000
Recipient Government	MOT	In-kind	700,000
Donor Agency	ЛСА	Grants	1,500,000
Private Sector	Plato	Equity	2,000,000
Private Sector	Key Lab	In-kind	1,000,000
Private Sector	Bai Bang Pulp and Paper	Equity	1,000,000
Recipient Government	Viet Nam Environmental Protection Fund	Loans	2,000,000
(select)		(select)	
(select)		(select)	
Total Co-financing			8,400,000

Please include evidence for <u>co-financing</u> for the project with this form.

D. TRUST FUND RESOURCES REQUESTED BY AGENCY(IES), COUNTRY(IES), FOCAL AREA AND THE PROGRAMMING OF FUNDS

					(in \$)			
GEF Agency	Trust Fund	Country Name/Global	Focal Area	Programming of Funds	GEF Project Financing (a)	Agency Fee ^{a)} (b) ²	Total (c)=a+b	
UNDP	GEF TF	Viet Nam	Chemicals and Wastes	SAICM	430,000	40,850	470,850	
UNDP	GEF TF	Viet Nam	Chemicals and Wastes	POPS	1,100,000	104,500	1,204,500	
UNDP	GEF TF	Viet Nam	Chemicals and Wastes	Mercury	469,800	44,631	514,431	

⁴ For GEF Project Financing up to \$2 million, PMC could be up to10% of the subtotal; above \$2 million, PMC could be up to 5% of the subtotal. PMC should be charged proportionately to focal areas based on focal area project financing amount in Table D below.

(select)	(select)	(select)	(select as applicable)			,
(select)	(select)	(select)	(select as applicable)			0
(select)	(select)	(select)	(select as applicable)			,
(select)	(select)	(select)	(select as applicable)			,
(select)	(select)	(select)	(select as applicable)			,
(select)	(select)	(select)	(select as applicable)			,
(select)	(select)	(select)	(select as applicable)			,
Total Gr	Total Grant Resources			1,999,800	189,981	2,189,781

a) Refer to the Fee Policy for GEF Partner Agencies

E. PROJECT'S TARGET CONTRIBUTIONS TO GLOBAL ENVIRONMENTAL BENEFITS⁵

Provide the expected project targets as appropriate.

Corporate Results	Replenishment Targets	Project Targets
1. Maintain globally significant biodiversity and the ecosystem goods and services that it provides to society	Improved management of landscapes and seascapes covering 300 million hectares	hectares
 Sustainable land management in production systems (agriculture, rangelands, and forest landscapes) 	120 million hectares under sustainable land management	hectares
3. Promotion of collective management of transboundary water systems and implementation of the full range of policy, legal, and institutional reforms and	Water-food-ecosystems security and conjunctive management of surface and groundwater in at least 10 freshwater basins;	Number of freshwater basins
investments contributing to sustainable use and maintenance of ecosystem services	20% of globally over-exploited fisheries (by volume) moved to more sustainable levels	Percent of fisheries, by volume
4. Support to transformational shifts towards a low-emission and resilient development path	750 million tons of CO_{2e} mitigated (include both direct and indirect)	65 metric tons
 Increase in phase-out, disposal and reduction of releases of POPs, ODS, mercury and other chemicals of global 	Disposal of 80,000 tons of POPs (PCB, obsolete pesticides)	1 metric tons
concern	Reduction of 1000 tons of Mercury	0,002 metric tons
	Phase-out of 303.44 tons of ODP (HCFC)	ODP tons
6. Enhance capacity of countries to implement MEAs (multilateral environmental agreements) and mainstream into national and sub-national	Development and sectoral planning frameworks integrate measurable targets drawn from the MEAs in at least 10 countries	Number of Countries:
policy, planning financial and legal frameworks	Functional environmental information systems are established to support decision-making in at least 10 countries	Number of Countries:

F. DOES THE PROJECT INCLUDE A "NON-GRANT" INSTRUMENT? No

(If non-grant instruments are used, provide an indicative calendar of expected reflows to your Agency and to the GEF/LDCF/SCCF/CBIT Trust Fund) in Annex D.

PART II: PROJECT JUSTIFICATION

A. DESCRIBE ANY CHANGES IN ALIGNMENT WITH THE PROJECT DESIGN WITH THE ORIGINAL PiF^6

⁵ Update the applicable indicators provided at PIF stage. Progress in programming against these targets for the projects per the *Corporate Results Framework* in the *GEF-6 Programming Directions*, will be aggregated and reported during mid-term and at the conclusion of the replenishment period.

⁶ For questions A.1 –A.7 in Part II, if there are no changes since PIF , no need to respond, please enter "NA" after the respective question.

A.1. *Project Description*. Elaborate on: 1) the global environmental and/or adaptation problems, root causes and barriers that need to be addressed; 2) the baseline scenario or any associated baseline projects, 3) the proposed alternative scenario, GEF focal area⁷ strategies, with a brief description of expected outcomes and components of the project, 4) incremental/additional cost reasoning and expected contributions from the baseline, the GEFTF, LDCF, SCCF, CBIT and <u>co-financing</u>; 5) global environmental benefits (GEFTF) and/or <u>adaptation benefits</u> (LDCF/SCCF); and 6) innovativeness, sustainability and potential for scaling up.

There are no significant changes compared to the PIF, except that in some cases the outputs are more concretely defined and the baseline updated and detailed. This is explained in the section below.

1) The global environmental and/or adaptation problems, root causes and barriers that need to be addressed.

Please refer to Section II (Development Challenges) Chapter 1 and Annex O of the project document.

2) The baseline scenario or any associated baseline projects.

Please refer to Section II (Development Challenges) Chapter 2 and Annex P of the project document.

3) The proposed alternative scenario, GEF focal area strategies, whith a brief description of expected outcomes and components of the project.

Limited changes were introduced in the proposed alternative scenario, with the main purpose to identify in a concrete manner the outputs and activity to be undertaken, and the target industrial sectors.

The proposed alternative scenario and brief description of expected outcomes is reported in Section IV, Chapter 6 of the project document. The project remains unchanged in term of components, while at the level of outputs the following has been introduced:

Outcome /	PIF	Project Document
output		
Output	National institutional capacity for Green	National institutional capacity for Green
1.1.1	Chemistry adoption assessed and sector	Chemistry adoption assessed (sector baseline
	baselines established	to assessed in Output 3.1.1)
Output	Institutions and entities capacitated to	Specific standards and regulations on Green
1.1.3	develop, improve and operationalize the	Chemistry, including incentive scheme,
	regulatory and policy framework for	developed.
	Green Chemistry and POPs	
Output	Green Chemistry modules integrated in	Green Chemistry extra-lecture integrated in
2.1.3	higher education curricula	the universities and MOIT training institutes .
Output		InforTech exhibition: MOST and
2.1.4 (new)		commercial/trade promotion of advance
		technology countries
Outcome	3.1 15 g-TEQ/a of UPOPs releases, 1	15 g-TEQ/a of UPOPs releases, 1 tonne of
3.1	tonne of POPs, 0.002 tonnes of Mercury	POPs, 0.002 tonnes of mercury reduced and
	and X tonnes (to be determined during	at least 65 tons of CO2 through the
	PPG) of GHGs reduced through the	introduction of GC in priority sectors
	introduction of GC in priority sectors.	

A.2. Child Project? If this is a child project under a program, describe how the components contribute to the overall program impact.

n/a

⁷ For biodiversity projects, in addition to explaining the project's consistency with the biodiversity focal area strategy, objectives and programs, please also describe which <u>Aichi Target(s)</u> the project will directly contribute to achieving.

A.3. <u>Stakeholders</u>. Identify key stakeholders and elaborate on how the key stakeholders engagement is incorporated in the preparation and implementation of the project. Do they include civil society organizations (yes $\[mu]/no[]\]$)? and indigenous peoples (yes $\[mu]/no[]\]$)? ⁸

Stakeholder analysis is reported in Section IV, Chapter 7 (Partnership) of the project document. The list of stakeholders is reported in Table 9 of the project document.

A.4. <u>Gender Equality and Women's Empowerment</u>. Elaborate on how gender equality and women's empowerment issues are mainstreamed into the project implementation and monitoring, taking into account the differences, needs, roles and priorities of women and men. In addition, 1) did the project conduct a gender analysis during project preparation (yes [A]/no[])?; 2) did the project incorporate a gender responsive project results framework, including sex-disaggregated indicators (yes [A]/no[])?; and 3) what is the share of women and men direct beneficiaries (women X%, men X%)?

A gender analysis was carried out in the course of the PPG. The analysis is reported as Annex Q of the project document (Page 106). A specific gender mainstreaming plan has been developed (please refer to Table 10 in Section IV, Chapter 7 "Mainstreaming Gender" of the project document (Page 52). The Gender Mainstreaming Action Plan includes quantitative indicators and target, disaggregated by sex, on equal job opportunities, equal access to training and information, gender specific chemical risk assessment and management, including Personal Protective Equipment. The actions and indicators identified in the plan have been integrated in the project results framework to make it gender responsive.

A.5 *Risk.* Elaborate on indicated risks, including climate change, potential social and environmental risks that might prevent the project objectives from being achieved, and, if possible, the proposed measures that address these risks at the time of project implementation.(table format acceptable):

Please refer to Annex I "UNDP Risk Log" of the project document.

A.6. Institutional Arrangement and Coordination. Describe the institutional arrangement for project implementation. Elaborate on the planned coordination with other relevant GEF-financed projects and other initiatives.

A detailed analysis of the planned coordination with ongoing initiatives is reported in Section II (Development Challenges), Chapter 2 "The Baseline Scenario or any associated Baseline Projects" (Page 9), and Section III (Strategy), Chapter 3, "Linkage and Coordination with other GEF projects" (Page 21).

Additional Information not well elaborated at PIF Stage:

A.7 *Benefits*. Describe the socioeconomic benefits to be delivered by the project at the national and local levels. How do these benefits translate in supporting the achievement of global environment benefits (GEF Trust Fund) or adaptation benefits (LDCF/SCCF)?

After the PIF; a big effort of the project drafting team has been paid to identify the priority sectors to be demonstrated under the project and possible incentive mechanism. The baseline analysis of the selected sectors is reported in Annex P of the project document. The list of potential Green Chemistry interventions for each sector are reported in Table 3 to 8 of the project document. It should be stressed that several Green Chemistry principles envisage a more efficient use of resources and energy. This will result not only in a reduced manufacturing cost, but also in the reduction of GHG and U-POPs emission, both bringing in a substantial social and ecomic benefit for the country, as the 6 selected sectors represent not only the ones where Green Chemistry can be effectively demonstrated, but they are also among the largest manufacturing sectors in Viet Nam in term of financial share of the nation's economy. These are: Pulp and paper; Plastic; Textile and fibers; Chrome Plating; Paint and Solvents; Pesticide formulation.

In addition to the above, the project intends to develop an incentive mechanism which will facilitate the shifting from conventional manufacturing production to the green chemistry appproach. Finally, the demonstration of at least one

⁸ As per the GEF-6 Corporate Results Framework in the GEF Programming Directions and GEF-6 Gender Core Indicators in the Gender Equality Action Plan, provide information on these specific indicators on stakeholders (including civil society organization and indigenous peoples) and gender.

⁹ Same as footnote 8 above.

Corporate Social Responsibility initiative promoted by one of the 6 sectors will further enhance the social and economical benefit brought by the project.

A.8 *Knowledge Management*. Elaborate on the knowledge management approach for the project, including, if any, plans for the project to learn from other relevant projects and initiatives (e.g. participate in trainings, conferences, stakeholder exchanges, virtual networks, project twinning) and plans for the project to assess and document in a user-friendly form (e.g. lessons learned briefs, engaging websites, guidebooks based on experience) and share these experiences and expertise (e.g. participate in community of practices, organize seminars, trainings and conferences) with relevant stakeholders.

A specific outputs related to Knowledge Management will be achieved under project Component 4 (Knowledge Management and Monitoring). Under this component, results from the project will be disseminated within and beyond the project intervention area through existing information sharing networks and fora. The project will identify and participate, as relevant and appropriate, in scientific, policy-based and/or any other networks, which may be of benefit to the project. The project will identify, analyse and share lessons learned that might be beneficial to the design and implementation of similar projects and disseminate these lessons widely. There will be continuous information exchange between this project and other projects of similar focus in the same country, region and globally. Knowledge management is however an important part of other project components: under Component 1, Output 1.1.5, a network of trained experts, consultants and firms who will work as an help desk to provide advice to industry in adopting Green Chemistry practices will be established. In practical terms, this will be established through a blog platform or a Green Chemistry line which can be accessed by the industry to ask specific question on the implementation of Green Chemistry. Under Component 2, workshops for disseminating the knowledge on Green Chemistry potential, and the specific project results will be held under Output 2.1.1. Finally, training stages will be organized at manufacturing facilities selected among the six reference sectors (Output 2.1.3). At least 20 trainees for each sector will be trained in this training cycle. This will allow trainees to base their knowledge on practical experience rather than only on theoretical classroom training.

B. DESCRIPTION OF THE CONSISTENCY OF THE PROJECT WITH:

B.1 *Consistency with National Priorities.* Describe the consistency of the project with national strategies and plans or reports and assessements under relevant conventions such as NAPAs, NAPs, ASGM NAPs, MIAs, NBSAPs, NCs, TNAs, NCSAs, NIPs, PRSPs, NPFE, BURs, INDCs, etc.:

Please refer to Section II (Development Challenge), Chapter 3 "Consistency of the Project with National Policies" of the project document (Page 16).

C. DESCRIBE THE BUDGETED M & E PLAN:

Please refer to Section VII "Monitoring and Evaluation (M&E) Plan as well as to Annex B (Monitoring Plan) of the project document (Page 66).

PART III: CERTIFICATION BY GEF PARTNER AGENCY(IES)

A. GEF Agency(ies) certification

This request has been prepared in accordance with GEF policies¹⁰ and procedures and meets the GEF criteria for CEO endorsement under GEF-6.

Agency Coordinator, Agency Name	Signature	Date (MM/dd/yyyy)	Project Contact Person	Telephone	Email Address
Ms. Adriana	1 1	04/10/2017	Xiaofang Zhou	212-906-	
Dinu Executive	-ADMM		Director,	5782	xiaofang.zhou@undp.org
Coordinator,	Carden Street Stre		Montreal		
UNDP Global			Protocol		
Environmental			Unit/Chemicals		
Financie					

¹⁰ GEF policies encompass all managed trust funds, namely: GEFTF, LDCF, SCCF and CBIT GEF6 CEO Endorsement /Approval Template-August2016

ANNEX A: PROJECT RESULTS FRAMEWORK (either copy and paste here the framework from the Agency document, or provide reference to the page in the project document where the framework could be found). Please refer to Section VI of the project document "Project Results Framework" (Page 55-63).

ANNEX B: RESPONSES TO PROJECT REVIEWS (from GEF Secretariat and GEF Agencies, and Responses to Comments from Council at work program inclusion and the Convention Secretariat and STAP at PIF).

The project was recommended for CEO approval without comments in May 2016. In the GEF-6, the GEF Secretariat review of the PIF confirmed that "The use of Green Chemistry principles in manufacturing supports sustainable consumption and production and will in the long term be a sustainable solution to the emissions and releases of POPs and mercury. The GEF 6 Strategy articulates Green Chemistry approaches as a means of reducing POPs and Mercury."

ANNEX C: STATUS OF IMPLEMENTATION OF PROJECT PREPARATION ACTIVITIES AND THE USE OF FUNDS¹¹

A. Provide detailed funding amount of the PPG activities financing status in the table below:

PPG Grant Approved at PIF: 50,000						
	GETF/	LDCF/SCCF/CBIT A	mount (\$)			
Project Preparation Activities Implemented	Budgeted Amount	Amount Spent To date	Amount Committed			
International consultants	22,000	12,438.00	9,531.20			
Local consultants	15,000	18,314.76	5,990.45			
Travel	5,000	107.49	0.0			
Miscellaneous	2,000	0.0	2,000.28			
(reserve budget for Prodoc translation to						
Vitnamese once approved by GEF)						
Workshop	6,000	1,617.82	0.0			
Total	<u>50,000</u>	32,478.07	<u>17,521.93</u>			

¹¹ If at CEO Endorsement, the PPG activities have not been completed and there is a balance of unspent fund, Agencies can continue to undertake the activities up to one year of project start. No later than one year from start of project implementation, Agencies should report this table to the GEF Secretariat on the completion of PPG activities and the amount spent for the activities. Agencies should also report closing of PPG to Trustee in its Quarterly Report.

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ANNEX D: CALENDAR OF EXPECTED REFLOWS (if non-grant instrument is used)

Provide a calendar of expected reflows to the GEF/LDCF/SCCF/CBIT Trust Funds or to your Agency (and/or revolving fund that will be set up)

n/a