

ANNEX IV: SOCIAL AND ENVIRONMENTAL SCREENING TEMPLATE (SESP)

Project Information

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1. Project Title	1) HCFC Phase-Out Management Plan (HPMP Stage-II) For Compliance with the 2020 and 2025 Control Targets
1. Project Number	Output ID- 00110796 (AC Sector) and 00117012 (PMU). Award ID- 00112138
1. Location (Global/Region/Country)	Bangladesh

Part A. Integrating Overarching Principles to Strengthen Social and Environmental Sustainability

QUESTION 1: How Does the Project Integrate the Overarching Principles in order to Strengthen Social and Environmental Sustainability?

Briefly describe in the space below how the Project mainstreams the human-rights based approach

This project's ultimate goal is to implement structural changes in RAC manufacturing and servicing sectors for cleaner production and contribute to the quality of people's lives, through the protection of the ozone layer and reduction in direct and indirect emissions. The technical and the enough financial assistance provided through this project remain one of the key inputs needed to minimize the burden of transition on consumers and local industries. The project also seeks to empower all State agencies and private companies that are linked to the acquisition and use of ODS to promote the use of ODS free and low GWP technologies that do not deplete the ozone layer and reduce emissions. In compliance with the UN Declaration of Human rights, the project has mandate to protect the health and environment through the reduction and phase-out of harmful chemicals able to deplete the Ozone layer and interfere climate change. The project was created to protect human right on promoting healthier environment and human wellbeing.

Briefly describe in the space below how the Project is likely to improve gender equality and women's empowerment

While the project does not have a specific gender related dimension, it will implement a wide range of activities for capacity-building relating to the protection of the environment, the elimination of HCFCs and the promotion of the use of alternate cleaner technologies, aimed at the central public institutions and sectors of RAC services. The project team will promote the participation of women in consultation meetings and will address gender inequalities in terms of access to clean production, finance, and decision-making and capacity building of women when applicable. Project have direct impact on training of women technicians on RAC sector. Project activities have an indirect impact on the level of knowledge of women users of home appliances that will be made ozone friendly under the project.

Briefly describe in the space below how the Project mainstreams environmental sustainability

The project mainstreams environmental sustainability through reducing or completely eliminate the dependence/use of chemicals (HCFCs) that deplete the ozone layer from the manufacturing and servicing sectors which are the key activities of the second phase of the HPMP implementation. The project will support implementation of the country's environmental policy and contributes to the global efforts to safeguard the environment and mitigate the climate change while helping restore the stratospheric ozone layer. It also contributes to the national efforts towards attaining the SDGs.

Part B. Identifying and Managing Social and Environmental Risks

<p>QUESTION 2: What are the Potential Social and Environmental Risks?</p> <p><i>Note: Describe briefly potential social and environmental risks identified in Attachment 1 – Risk Screening Checklist (based on any “Yes” responses). If no risks have been identified in Attachment 1 then note “No Risks Identified” and skip to Question 4 and Select “Low Risk”. Questions 5 and 6 not required for Low Risk Projects.</i></p>	<p>QUESTION 3: What is the level of significance of the potential social and environmental risks?</p> <p><i>Note: Respond to Questions 4 and 5 below before proceeding to Question 6</i></p>			<p>QUESTION 6: What social and environmental assessment and management measures have been conducted and/or are required to address potential risks (for Risks with Moderate and High Significance)?</p>
<p>Risk Description</p>	<p>Impact and Probability (1-5)</p>	<p>Significance (Low, Moderate, High)</p>	<p>Comments</p>	<p>Description of assessment and management measures as reflected in the Project design. If ESIA or SESA is required note that the assessment should consider all potential impacts and risks.</p>
<p>Risk 1(standard 3.7): Improper handling of flammable alternatives to HCFCs (e.g. hydrocarbons) used in the RAC sector</p>	<p>I = 3 P = 2</p>	<p>High</p>		<p>The safety system of the projects will be evaluated by an independent safety auditor. Following ISO Standard will be used to ensure the safety and environmental requirement:</p> <ul style="list-style-type: none"> (i) BDT ISO 5149-1:2018 Refrigerating systems and heat pumps-safety and environmental requirements-part 1: Definitions, classifications and deletion criteria. (ii) BDT ISO 5149-2:2018 Refrigerating systems and heat pumps-Safety and environmental requirements-Part 2: Design, construction, testing, marking and documentation (iii) BDS ISO 5149-3:2018 Refrigerating systems and heat pumps-Safety and environmental requirements-Part 3: Installation site (iv) BDS ISO 5149-4: 2018 Refrigerating systems and heat pumps-safety and environmental requirements-Part 4: Operating, maintenance, repair and recover
<p>Risk 2 (Standard 3.8): The project can risk the livelihoods of informal sector engaged in waste collection and processing and small energy and construction sectors.</p>	<p>I=3 P=2</p>	<p>Moderate</p>	<p>Health hazard of waste pickers at the waste disposal site is often poor. Unhygienic as well as unorganized handling may possess serious and long-term impact on the urban poor population whose income generation depends on waste picking and collection from landfills and dump sites</p>	<p>The Project will check the involvement of informal workers and improved working conditions and occupational health and safety standards of workers and community people where such community-ward based waste management committees operates.</p>

<p>Risk 5 (Principle 2.1): Lack of participation of women in project planning and implementation process</p>	<p>I=3 P=3</p>	<p>Moderate</p>	<p>Traditionally there is less representation and participation of women in the technical education system in Bangladesh particularly RAC sector</p>	<p>Women will be engaged during the consultation meetings, prioritized to avail the program and be included in the different capacity building programs. Walton Hi-Tech Industries Ltd., has been guided to involve women in AC production line during conversion of lines from HCFC-22 to R-290.</p>
QUESTION 4: What is the overall Project risk categorization?				
Select one (see SESP for guidance)			Comments	
<i>Low Risk</i>			<input type="checkbox"/>	.
<i>Moderate Risk</i>			<input type="checkbox"/>	
<i>High Risk</i>			<input checked="" type="checkbox"/>	<p>The overall project risk categorization is high due to flammability of refrigerant. Although the risk can be managed "know as engineering control" by applying safety sensors, devices, etc.</p>
QUESTION 5: Based on the identified risks and risk categorization, what requirements of the SES are relevant?				
Check all that apply			Comments	
<i>Principle 1: Human Rights</i>			<input type="checkbox"/>	<p>The project is consistent with the relevant human rights conventions that Government of Bangladesh has ratified including relevant sectors of human rights that are provided by the Constitution of Bangladesh.</p>

	Principle 2: Gender Equality and Women's Empowerment	<input type="checkbox"/>	The project gives enough space for knowledge generation and sharing, awareness raising, training and practice of decision-making roles for all including women.
	Principle 3 : Environmental sustainability		The environmental impacts of the project activities can be mitigated through the implementation of an appropriate environmental code of practice and environmental management plan,
	1. Biodiversity Conservation and Natural Resource Management	<input type="checkbox"/>	The project does not pose any adverse impact on any natural habitat, neither to any wildlife species and biodiversity because of the Project interventions will be within the involved company's/factories premises. In addition, the Project is expected to have no impacts on the management, protection, or utilization of natural forests or plantations and biodiversity or any ecosystem.
	2. Climate Change Mitigation and Adaptation	<input checked="" type="checkbox"/>	The expected environmental and social impacts can be mitigated through implementation of an appropriate environmental code of practice and environmental and social management plans. The project activities will contribute to reduce global warming potential and positively contribute to climate change mitigation.
	3. Community Health, Safety and Working Conditions	<input checked="" type="checkbox"/>	Project activities have some risks to worker's occupational health and safety. However, proper occupational health and safety measures and codes will be followed and ISO standardization will be implemented to ensure safety
	4. Cultural Heritage	<input type="checkbox"/>	No negative impact on landscapes with archaeological, paleontological, historical, architectural, religious, aesthetic, or other cultural significance is expected.
	5. Displacement and Resettlement	<input type="checkbox"/>	The project component would not pose risk of displacement and resettlement of any people or communities.
	6. Indigenous Peoples	<input type="checkbox"/>	Therefore, the project activities would not likely pose any adverse impact on indigenous people.
	7. Pollution Prevention and Resource Efficiency	<input checked="" type="checkbox"/>	This project will promote energy and other resource efficiency.

Final Sign Off

<i>Signature</i>	<i>Date</i>	<i>Description</i>
QA Assessor		Programme Specialist, UNDP
QA Approver		Deputy Resident Representative, UNDP
PAC Chair		Resident Representative, UNDP

SESP Attachment 1. Social and Environmental Risk Screening Checklist

Checklist Potential Social and Environmental <u>Risks</u>		
Principles 1: Human Rights		Answer (Yes/No)
1.	Could the Project lead to adverse impacts on enjoyment of the human rights (civil, political, economic, social or cultural) of the affected population and particularly of marginalized groups?	No
2.	Is there a likelihood that the Project would have inequitable or discriminatory adverse impacts on affected populations, particularly people living in poverty or marginalized or excluded individuals or groups? ¹⁰	No
3.	Could the Project potentially restrict availability, quality of and access to resources or basic services, in particular to marginalized individuals or groups?	No
4.	Is there a likelihood that the Project would exclude any potentially affected stakeholders, in particular marginalized groups, from fully participating in decisions that may affect them?	No
5.	Is there a risk that duty-bearers do not have the capacity to meet their obligations in the Project?	No
6.	Is there a risk that rights-holders do not have the capacity to claim their rights?	No
7.	Have local communities or individuals, given the opportunity, raised human rights concerns regarding the Project during the stakeholder engagement process?	Yes
8.	Is there a risk that the Project would exacerbate conflicts among and/or the risk of violence to project-affected communities and individuals?	No
Principle 2: Gender Equality and Women's Empowerment		
1.	Is there a likelihood that the proposed Project would have adverse impacts on gender equality and/or the situation of women and girls?	No
2.	Would the Project potentially reproduce discriminations against women based on gender, especially regarding participation in design and implementation or access to opportunities and benefits?	No
3.	Have women's groups/leaders raised gender equality concerns regarding the Project during the stakeholder engagement process and has this been included in the overall Project proposal and in the risk assessment?	No
4.	Would the Project potentially limit women's ability to use, develop and protect natural resources, taking into account different roles and positions of women and men in accessing environmental goods and services? <i>For example, activities that could lead to natural resources degradation or depletion in communities who depend on these resources for their livelihoods and well being</i>	No
Principle 3: Environmental Sustainability: Screening questions regarding environmental risks are encompassed by the specific Standard-related questions below		
Standard 1: Biodiversity Conservation and Sustainable Natural Resource Management		
1.1	Would the Project potentially cause adverse impacts to habitats (e.g. modified, natural, and critical habitats) and/or ecosystems and ecosystem services? <i>For example, through habitat loss, conversion or degradation, fragmentation, hydrological changes</i>	No
1.2	Are any Project activities proposed within or adjacent to critical habitats and/or environmentally sensitive areas, including legally protected areas (e.g. nature reserve, national park), areas proposed for protection, or recognized as such by authoritative sources and/or indigenous peoples or local communities?	No
1.3	Does the Project involve changes to the use of lands and resources that may have adverse impacts on habitats, ecosystems, and/or livelihoods? (Note: if restrictions and/or limitations of access to lands would apply, refer to Standard 5)	No
1.4	Would Project activities pose risks to endangered species?	No

¹⁰ Prohibited grounds of discrimination include race, ethnicity, gender, age, language, disability, sexual orientation, religion, political or other opinion, national or social or geographical origin, property, birth or other status including as an indigenous person or as a member of a minority. References to "women and men" or similar is understood to include women and men, boys and girls, and other groups discriminated against based on their gender identities, such as transgender people and transsexuals.

1.5	Would the Project pose a risk of introducing invasive alien species?	No
1.6	Does the Project involve harvesting of natural forests, plantation development, or reforestation?	No
1.7	Does the Project involve the production and/or harvesting of fish populations or other aquatic species?	No
1.8	Does the Project involve significant extraction, diversion or containment of surface or ground water? <i>For example, construction of dams, reservoirs, river basin developments, groundwater extraction</i>	No
1.9	Does the Project involve utilization of genetic resources? (e.g. collection and/or harvesting, commercial development)	No
1.10	Would the Project generate potential adverse transboundary or global environmental concerns?	No
1.11	Would the Project result in secondary or consequential development activities which could lead to adverse social and environmental effects, or would it generate cumulative impacts with other known existing or planned activities in the area? <i>For example, a new road through forested lands will generate direct environmental and social impacts (e.g. felling of trees, earthworks, potential relocation of inhabitants). The new road may also facilitate encroachment on lands by illegal settlers or generate unplanned commercial development along the route, potentially in sensitive areas. These are indirect, secondary, or induced impacts that need to be considered. Also, if similar developments in the same forested area are planned, then cumulative impacts of multiple activities (even if not part of the same Project) need to be considered.</i>	No
Standard 2: Climate Change Mitigation and Adaptation		
2.1	Will the proposed Project result in significant ¹¹ greenhouse gas emissions or may exacerbate climate change?	No
2.2	Would the potential outcomes of the Project be sensitive or vulnerable to potential impacts of climate change?	No
2.3	Is the proposed Project likely to directly or indirectly increase social and environmental vulnerability to climate change now or in the future (also known as maladaptive practices)? <i>For example, changes to land use planning may encourage further development of floodplains, potentially increasing the population's vulnerability to climate change, specifically flooding</i>	No
Standard 3: Community Health, Safety and Working Conditions		
3.1	Would elements of Project construction, operation, or decommissioning pose potential safety risks to local communities?	No
3.2	Would the Project pose potential risks to community health and safety due to the transport, storage, and use and/or disposal of hazardous or dangerous materials (e.g. explosives, fuel and other chemicals during construction and operation)?	No
3.3	Does the Project involve large-scale infrastructure development (e.g. dams, roads, buildings)?	No
3.4	Would failure of structural elements of the Project pose risks to communities? (e.g. collapse of buildings or infrastructure)	No
3.5	Would the proposed Project be susceptible to or lead to increased vulnerability to earthquakes, subsidence, landslides, erosion, flooding or extreme climatic conditions?	No
3.6	Would the Project result in potential increased health risks (e.g. from water-borne or other vector-borne diseases or communicable infections such as HIV/AIDS)?	No
3.7	Does the Project pose potential risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during Project construction, operation, or decommissioning?	Yes
3.8	Does the Project involve support for employment or livelihoods that may fail to comply with national and international labor standards (i.e. principles and standards of ILO fundamental conventions)?	No
3.9	Does the Project engage security personnel that may pose a potential risk to health and safety of communities and/or individuals (e.g. due to a lack of adequate training or accountability)?	Yes
Standard 4: Cultural Heritage		

¹¹ In regards to CO₂, 'significant emissions' corresponds generally to more than 25,000 tons per year (from both direct and indirect sources). [The Guidance Note on Climate Change Mitigation and Adaptation provides additional information on GHG emissions.]

4.1	Will the proposed Project result in interventions that would potentially adversely impact sites, structures, or objects with historical, cultural, artistic, traditional or religious values or intangible forms of culture (e.g. knowledge, innovations, practices)? (Note: Projects intended to protect and conserve Cultural Heritage may also have inadvertent adverse impacts)	No
4.2	Does the Project propose utilizing tangible and/or intangible forms of cultural heritage for commercial or other purposes?	No
Standard 5: Displacement and Resettlement		
5.1	Would the Project potentially involve temporary or permanent and full or partial physical displacement?	No
5.2	Would the Project possibly result in economic displacement (e.g. loss of assets or access to resources due to land acquisition or access restrictions – even in the absence of physical relocation)?	No
5.3	Is there a risk that the Project would lead to forced evictions? (Force evictions include acts and/or omissions involving the coerced or involuntary displacement of individuals, groups, or communities from homes and/or lands and common property resources etc.)	No
5.4	Would the proposed Project possibly affect land tenure arrangements and/or community based property rights/customary rights to land, territories and/or resources?	No
Standard 6: Indigenous Peoples		
6.1	Are indigenous peoples present in the Project area (including Project area of influence)?	No
6.2	Is it likely that the Project or portions of the Project will be located on lands and territories claimed by indigenous peoples?	No
6.3	Would the proposed Project potentially affect the human rights, lands, natural resources, territories, and traditional livelihoods of indigenous peoples (regardless of whether indigenous peoples possess the legal titles to such areas, whether the Project is located within or outside of the lands and territories inhabited by the affected peoples, or whether the indigenous peoples are recognized as indigenous peoples by the country in question)? <i>If the answer to the screening question 6.3 is "yes" the potential risk impacts are considered potentially severe and/or critical and the Project would be categorized as either Moderate or High Risk.</i>	No
6.4	Has there been an absence of culturally appropriate consultations carried out with the objective of achieving FPIC on matters that may affect the rights and interests, lands, resources, territories and traditional livelihoods of the indigenous peoples concerned?	No
6.5	Does the proposed Project involve the utilization and/or commercial development of natural resources on lands and territories claimed by indigenous peoples?	No
6.6	Is there a potential for forced eviction or the whole or partial physical or economic displacement of indigenous peoples, including through access restrictions to lands, territories, and resources?	No
6.7	Would the Project adversely affect the development priorities of indigenous peoples as defined by them?	No
6.8	Would the Project potentially affect the physical and cultural survival of indigenous peoples?	No
6.9	Would the Project potentially affect the Cultural Heritage of indigenous peoples, including through the commercialization or use of their traditional knowledge and practices?	No
Standard 7: Pollution Prevention and Resource Efficiency		
7.1	Would the Project potentially result in the release of pollutants to the environment due to routine or non-routine circumstances with the potential for adverse local, regional, and/or transboundary impacts?	No
7.2	Would the proposed Project potentially result in the generation of waste (both hazardous and non-hazardous)?	Yes
7.3	Will the proposed Project potentially involve the manufacture, trade, release, and/or use of hazardous chemicals and/or materials? Does the Project propose use of chemicals or materials subject to international bans or phase-outs? <i>For example, DDT, PCBs and other chemicals listed in international conventions such as the Stockholm Conventions on Persistent Organic Pollutants or the Montreal Protocol</i>	No
7.4	Will the proposed Project involve the application of pesticides that may have a negative effect on the environment or human health?	No
7.5	Does the Project include activities that require significant consumption of raw materials, energy, and/or water?	No