

BUTANTAN FOUNDATION PROJECT – BRAZIL Environmental and Social Action Plan (PAAS or ESAP – Rev. 1)

No.	Aspect	Measure		Product/Result		Compliance Date		
PS 1: Assessment and Management of Environmental and Social Risks and Impacts								
1.1	Meet National Legislation Requirements	 Obtain, update, and submit environmental licenses for the project facilities to be funded. 	1.	Environmental licenses and other applicable permits	1.	Six months after the first disbursement and thereafter as part of the Environmental and Socia Compliance Report (ESCR)		
		 Obtain and submit approvals granted by the planning agencies CONPRESP and CONDEPHAAT for the project facilities to be funded. 	2.	Publications in the Official Gazette containing approvals by CONPRESP and CONDEPHAAT for all the project facilities to be funded	2.	Six months after the first disbursement		
		 Periodically demonstrate compliance with all environmental licensing requirements. 	3.	Evidence of compliance with all environmental licensing requirements of the facilities included in the Project	3.	As part of the ESCR		
1.2	Environmental and Social Management System (ESMS)	 Prepare an Environmental and Social Management System (ESMS), including: i) an Environmental and Social Management Policy; ii) a risk and impact assessment matrix, to be periodically updated; iii) environmental and social management procedures, iv) description of the organizational capacity for ESMS management, v) a Stakeholder Engagement Plan; vi) at Emergency Preparedness and Response Plan, and vii) periodic audit and monitoring procedures. 	1	Environmental and Social Management System	1.	Six months after the first disbursement		
		Implement the proposed ESMS.	2.	Evidence of implementation	2.	As part of the ESCR		
		Conduct annual audits of the ESMS.	3.	Annual audit reports.	3.	As part of the ESCR		
1.3	Stakeholder Engagement	 Prepare a Stakeholder Engagement Plan, including: i) identification and mapping of the stakeholders of the Project; ii) assessment of the stakeholders to identify their levels of importance and influence on the Project; iii) structure of the social communication team accountable for implementing the plan; iv) design of stakeholders engagement procedures; v) preparation of a time line with annual action planning for the social communication area; vi) review of the grievance channels (audit/SAC) for the adequate handling of complaints submitted by the stakeholders, including anonymous complaints, and vii) description of procedures to disseminate knowledge on these channels and how grievances are submitted, handled and responded. 		Stakeholder Engagement Plan	1.	Six months after the first disbursement		
		Implement the Stakeholder Engagement Plan.	2.	Report on the implementation of the Stakeholder Engagement Plan	2.	As part of the ESCR		
		Report requests and grievances submitted to SAC and grievance channels related to the Project.		Report on stakeholders' requests and grievances	3.	As part of the ESCR		
1.4	Emergency Preparedness and Response	 Report emergencies, describing for each Emergency Action Plan activation instance: i) control measures implemented; ii) results; iii) emergency period and iv) corrective action plans implemented to prevent recurrences. 		Emergency reports	1.	As part of the ESCR		
		2. Report training and drills in preparation to address emergencies.	2.	Reports on training and drills to address emergencies	2.	As part of the ESCR		



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2.1	Supply Chain	Create contract provisions that require vendors to comply with the following: non-discrimination; health and safety; environment; moral/sexual harassment prevention; and prevention of forced and child labour.	Copies of the contract clauses	Three months after the first disbursement					
2.2	Grievance Channel	Submit a report with a summary of worker requests and complaints presented to the "Talk to HR Channel" (Canal Fale com o RH).	Report on the Talk to HR Channel	As part of the ESCR					
2.3	Accidents	Submit accident reports in Project facilities during works and operations. Indicate the causes, severity, investigations performed, the treatment offered to victims, formal documentation and incident and accident rates with and without absences for the period.	Accident reports	As part of the ESCR					
PS 3: Res	PS 3: Resource Efficiency and Pollution Prevention								
3.1	Greenhouse Gases	Prepare a Monitoring Plan for Greenhouse Gas Emissions. 1.	Monitoring Plan for Greenhouse Gas Emissions	Twelve months after the first disbursement					
		Implement the Greenhouse Gas Monitoring Plan. 2.	Evidence of implementation	As part of the ESCR					
		3. Submit an inventory of greenhouse gas emissions for Scopes 1 and 2. 3.	Emissions report	4. As part of the ESCR					
3.2	Management of Hazardous Materials	Implement the Civil Construction Solid Waste Management Plan (PIGRIB) 1. pertaining to Project operations.	PIGRIB implementation reports for project facilities.	As part of the ESCR					
		Present the monitoring results of treated industrial effluents generated by Project facilities. Present the monitoring results of treated industrial effluents generated by Project facilities.	Monitoring reports on the quality of the treated effluent	2. As part of the ESCR					
PS 4: Community Health, Safety and Security									
4.1	Community Health and Safety	Conduct noise monitoring campaigns during project construction focusing on noise sensitive receptors.	Noise monitoring reports	Every six months, during works, as part of the ESCR					
		Upgrade the Air Emissions Monitoring Program (PMEA) adding monitoring of sensitive receptors with the parameters in CONAMA Resolution No. 491/2018.	Air emission monitoring reports	3. As part of the ESCR					