

ENVIRONMENTAL AND SOCIAL ACTION PLAN ASEC Algeria, Algeria (#27920) Update July 7, 2010¹			
Item	Action	Completion Indicator	Timetable
	PS1: Social and Environmental Assessment and Management Systems		
1	ASEC Algeria will implement ESIA of all quarry locations.	The Company has conducted the study, acceptable to IFC, and presented the results to the affected communities. The ESIA will be disclosed locally and in the IFC website, when it will become available.	(i) Terms of References acceptable to IFC (ii) Study completed three months prior to projected start of quarry development
2	ASEC Algeria will develop a water sustainability study.	(a) The Company has hired an external consultant and submitted the study development schedule, acceptable to IFC. (b) The Company has submitted the study, acceptable to IFC, which shows that the Project's anticipated water use is sustainable.	(a) Condition of first disbursement. COMPLETED (b) September 2010
3	ASEC Algeria will ensure that the ESIA's and relevant environmental management plans for the gas pipeline and the electric transmission line are developed.	The Company has submitted the studies, acceptable to IFC, and presented the results to the affected communities.	Three months before construction of the lines
4	ASEC Algeria will establish a Project environmental and social management system (ESMS), that will ensure ongoing compliance with (i) requisite environmental, health and safety and social measures (i.e., adopted environmental, social, health and safety (ESHS) standards, Company commitments as outlined in the EIA), (ii) Algerian legal requirements, and (iii) IFC	(a) The Company has submitted to IFC an ESMS development schedule (b) Availability of Operations phase environmental and social management plans, acceptable to IFC.	(a) Six months before operations (b) Three months before operations

¹ This ESAP has been updated as of July 7, 2010, based on a site visit conducted on June 24 – 29, 2010 and further discussions with ASEC. The updated ESAP reflects the current project implementation schedule and the completion of some action items, and links the action timelines to the project development milestones.

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	Performance Standards and EHS Guidelines, as the Project develops and becomes operational. Contractor management documents will also be developed to provide a set of Project specific requirements and guidance to the Contractors to ensure compliance with Project commitments.		
5	ASEC Algeria will apply for and achieve ISO 14001 certification.	The Company has achieved ISO 14001 certification within a period of up to 3 years.	By the third year of operations
6	ASEC Algeria will develop and periodically update a full Quarry Management and Rehabilitation Plan, which will be kept current during the lifetime of the Project. The first issue of the Plan will be disclosed in the IFC website.	The Company has submitted for review the copy of the plan to IFC in advance of the submittal to the local authorities. Annual updates of the plan locally published.	Prior to quarry opening Annual updates on quarry exploitation and rehabilitation activities, as applicable Periodic revision of the Plan (at least once every 5 (five) years)
7	ASEC Algeria will appoint full-time ESHS manager.	The Company has appointed the ESHS manager.	Prior to steel installation and electromechanical works
8	ASEC Algeria will develop and implement a Stakeholder Engagement Plan (SEP) for communities in the vicinity of the plant site (i.e., Oued Sdar and Ain El Ebel) and proximate to the limestone and clay quarry locations. The plan will include a statement of principles for the management of grievances according to IFC standards.	(a) The Company has hired an external consultant and submitted the plan development schedule, acceptable to IFC. (b) Availability of the final SEP, acceptable to IFC (c) Implementation of the SEP.	(a) Condition of first disbursement. COMPLETED (b) September 2010 (c) As per agreed timeline in the SEP
9	ASEC Algeria will develop a Project Environmental Monitoring Plan, including air emissions, ambient air quality, noise and vibrations, effluent quality, groundwater quality and level in community wells	Availability of the Project Environmental Monitoring Plan, acceptable to IFC.	Three months prior to operations

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	and dedicated monitoring wells, solid wastes, and traffic.		
10	ASEC Algeria will prepare and disclose locally on an annual basis a Project's Environmental and Social Report, including this Action Plan, to local communities as it evolves and report on completion of its action items.	(a) Definition of the key performance indicators and annual report template. (b) Availability of the annual report, including updates of this Action Plan.	(a) December 2010 (b) As per timeline defined for national reporting requirements in the final SEP (Action 8)
	PS2: Labor and Working Conditions		
11	ASEC Algeria will develop human resource policy, incorporating the requirements of PS 2, applicable to its own as well as contractor operations and non-employee workers.	Availability of the Human Resources policy, acceptable to IFC. - (a) Clauses relevant to contractor operations - (b) Operational phase HR Policy and Manual	(a) Prior to contract associated with steel installation and electromechanical works (b) Three months before operations
12	ASEC Algeria will develop a Worker Accommodation Policy defining standards (including specific provisions relevant to living conditions, waste and wastewater management) and management requirements.	Availability of the Worker Accommodation Policy, acceptable to IFC.	Prior to contract associated with steel installation and electromechanical works
13	ASEC Algeria will ensure that all Contractors develop and implement a camp management plan meeting relevant standards and ensuring the well-being of the workforce.	Availability of the camp management plans, acceptable to IFC.	Requirements to be included in contract associated with steel installation and electromechanical works. Camp management plans to be made available to IFC as and when available

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	PS3: Pollution Prevention and Abatement		
14	ASEC Algeria will revise the air emission dispersion model for the proposed plant and provide a quantitative assessment of the ambient air quality at the closest human receptors. If needed, the Company will introduce eventual mitigation measures to ensure that WHO air quality criteria are met in the project affected area.	(a) The Company has hired an external consultant and submitted the study development schedule, acceptable to IFC. (b) The Company has revised the model and submitted the results to IFC. A time-bound Action Plan for additional mitigation measures, if needed, has been agreed between the Company and IFC.	(a) Condition of first disbursement. COMPLETED (b) September 2010
15	ASEC Algeria will install continuous monitoring systems for air pollutant emissions (dust, SO ₂ , NO _x , and CO) from the main stacks. Periodic monitoring of total organic carbon and heavy metals will also be performed, as part of the Environmental Monitoring Plan.	Availability of the continuous monitoring systems.	Prior to operations
16	ASEC Algeria will install ambient air monitoring stations or will conduct periodic monitoring at selected distances and locations, including nearest residential receptors, to measure particulate matter (PM10 and PM2.5), and NO _x levels.	Installation of the stations or periodic measurements, as per the agreed Environmental Monitoring Plan.	Three months prior to operations
17	ASEC Algeria will install a monitoring well network specifically designed to monitor groundwater conditions in terms of water quality and water levels.	Submittal of monitoring well design to IFC for review and acceptance. Installation of the monitoring well networks and periodic monitoring included in the agreed Environmental Monitoring Plan.	Installation of the wells: three months prior to operations
18	ASEC Algeria will develop a drainage system for the project areas that will follow storm water management guidance of IFC guidelines and	Design of the project drainage system, acceptable to IFC.	Prior to operations

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	applicable discharge criteria, if discharge outside project boundaries is needed.		
19	ASEC Algeria will install a permanent sewage treatment plant which will treat the wastewater to comply with IFC guidelines. The construction camp will be provided with adequate sewage collection and disposal	(a) Technical review of the sewage collection and disposal at the construction camp, and identification of corrective actions, as needed. (b) Technical specifications of the permanent sewage treatment plant, acceptable to IFC. (c) Installation of the permanent sewage treatment plant.	(a) Prior to next contractor's contract signing (b) Two months prior to construction of the treatment plant (c) Prior to operations
20	ASEC Algeria will repeat baseline daytime and nighttime ambient noise measurements before operations and will conduct periodic ambient noise monitoring at selected distances and locations, including nearest residential receptors.	(a) Availability of baseline daytime and nighttime ambient noise measurements. (b) Inclusion in the agreed Environmental Monitoring Plan.	(a) Three months prior to operations (b) Three months prior to operations
21	ASEC Algeria will conduct a baseline survey of the access roads, closest buildings and infrastructure conditions along the access road from highway N1 to the site, to mitigate against potential claims of vibration induced damage.	Availability of the survey.	Six months prior to operations
22	ASEC Algeria will perform overpressure and vibration monitoring at selected sites adjacent to the quarry site for each blast	Inclusion in the agreed Environmental Monitoring Plan.	Three months prior to operations
23	During operation, ASEC Algeria will quantify direct greenhouse gas (GHG) emissions from their facilities within the physical project boundary and indirect emissions associated with the off-site production of power used by the project. Quantification and monitoring of GHG emissions will be conducted annually in accordance with	Availability of the annual CO2 emission accounting.	As per timeline agreed for annual monitoring reporting

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	internationally recognized methodologies.		
24	ASEC Algeria will audit the local solid waste treatment and disposal centers to ensure that they comply with local regulations and all measures are taken to avoid potential impacts to human health and the environment.	Availability of the audit and definition of a waste management plan with identification of the waste treatment and disposal options, acceptable to IFC.	Three months prior to operations
25	ASEC Algeria will finalize an emergency preparedness and response plan for the operations phase.	Availability of the plan, acceptable to IFC.	Three months prior to operations
	PS4 Community Health, Safety and Security		
26	ASEC Algeria will ensure that the plant site will be fenced and secured as soon as possible, to prevent risks associated to third party intrusion.	Site fenced.	Condition of first disbursement COMPLETED
27	ASEC Algeria will ensure that Contractors stop the use of off-site dumping of inert material and, where this has already occurred, will ensure that the sites are appropriately demarcated and leveled and rehabilitated.	(a) The Company has provided evidence that off-site dumping was stopped. (b) The Company has developed a rehabilitation plan for the dump sites, acceptable to IFC. (c) The Company has rehabilitated the dump sites.	(a) Condition of first disbursement COMPLETED (b) September 2009 COMPLETED (c) December 2009 COMPLETED
28	ASEC Algeria will ensure that quarry operations will be demarcated and boundaries monitored during operations.	Sites demarcated and monitored.	Prior to operations

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29	ASEC Algeria will conduct a thorough traffic assessment and management study.	Availability of the traffic study, acceptable to IFC.	One year prior to operations
30	In association with relevant government authorities, ASEC Algeria will develop and implement plans for (a) traffic management, (b) upgrade and maintenance of the access road, (c) adequate truck parking capacity and (d) appropriate access to the N1 Highway i.e., joiner lands, overpass or underpass, all according to the findings of the traffic study (Action 29).	(a) Availability of the plans, acceptable to IFC. (b) Completion of all agreed actions.	(a) Three months after completion of Action 29 (b) Three months prior to operations
	PS5 Land Acquisition and Involuntary Resettlement		
31	ASEC Algeria will implement a socio-economic land use assessment of the project site, the adjacent areas and all quarry locations.	(a) The Company has hired an external consultant and submitted the study development schedule, acceptable to IFC. (b) Availability of the study, acceptable to IFC.	(a) Condition of first disbursement. COMPLETED (b) September 2010
32	ASEC Algeria will develop and implement an appropriate compensation and mitigation plan for economic displacement caused by development and operation of the Project.	(a) Availability of TOR acceptable to IFC (b) Availability of the plan, acceptable to IFC. (c) Implementation of plan (d) Completion report	(a) Eighteen months prior to projected start of quarry development (b) Twelve months prior to projected start of quarry development (c) No later than six months prior to projected start of quarry development (d) As per agreed timeline in the plan

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33	ASEC Algeria will ensure that an assessment of the expropriation and compensation practices and procedures utilised for securing the ROW for the gas pipeline and electricity transmission lines is conducted, including: (i) summary of Sonelgaz development plans for gas pipeline and electricity transmission line showing ROW; (i) summary of physical and economic displacement and compensation, including number of affected people, levels of compensation, proof of payment.	(a) Sonelgaz contract has conditions stipulating level of detail required in assessment of impact, identification of affected people, levels of compensation paid for land, building and/or crops affected by ROW and proof of compensation and need for provision of summary report (b) Summary report of Sonelgaz land acquisition and compensation including number of people, impact (land, building, crop), compensation paid (land, building, crop)	(a) Before contract signing. (b) Three months after ROW identification and surveys and completion of Sonelgaz process.
34	Where assessment of Sonelgaz expropriation and compensation for ROW demonstrates significant impacts, ASEC Algeria will (i) recruit external consultant to assess gaps between Algerian law and IFC PS5 and (ii) where necessary supplement compensation through appropriate means.	(a) Availability of the plan, acceptable to IFC. (b) Completion report	(a) One month after completion of Sonelgaz ESIA (Action 3) (b) As per agreed timeline in the plan
	PS6 Biodiversity Conservation and Sustainable Natural Resource Management		
35	ASEC Algeria will conduct a biodiversity assessment of the limestone quarry and its surroundings and other sources of raw materials, and ensure that there are not significant impacts to areas of high biodiversity value.	As part of the quarry ESIA.	See Action 1
	PS8 Cultural Heritage		
36	ASEC Algeria will conduct an assessment of the potential existence of cultural heritage on the quarry sites and potential sources of gypsum in the	(a) As part of the quarry ESIA. (b) Availability of the chance find protocol.	(a) See Action 1 (b) Prior to mobilization of quarry

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	Project region. The Company will also develop a chance find protocol which it will include in contracts with relevant contractors operating on the project site and the quarries to ensure that cultural heritage is dealt with appropriately, should it be found to exist.		contractors and construction of Project related facilities.