

Environmental and Social Monitoring Fourth Report

Project Number: 48368-001
January 2019

MYA: Myingyan Natural Gas Power Project Part 3

Prepared by Environ Myanmar Co Ltd.

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Myingyan Natural Gas Power Project
Lenders' Environmental and Social Consultant (LESC) Fourth Monitoring Visit
Monitoring Plan

Monitoring Visit Date:	28 th -30 th August 2018	Site Location:	Sembcorp Myingyan Power Company Ltd. Myingyan, Myanmar
Monitoring Team:	<p>The monitoring team will comprise:</p> <ul style="list-style-type: none"> • Ms Sharon Maharg, Ramboll Environ – Social Specialist Mobile: +1 917 326 9330, E-mail: smaharg@ramboll.com • Ms. Sharmini Ramanathan, Ramboll Environ – Environmental Specialist Mobile: +60123065172, E-mail: sramanathan@ramboll.com 		
Principal Client Representatives:	<ul style="list-style-type: none"> • H C Chew, Senior Vice President, Strategic Communications and Sustainability Email: chew.hehchwen@sembcorp.com • Kenneth Ng, Assistant Manager, Strategic Communications and Sustainability Email: kenneth.ng@sembcorp.com • Mr Htoon Nay Htoon, Commercial Manager, Sembcorp Myingyan Power Company Ltd. Tel: +95 1 9345 233~234 Ext-15, E-mail: htoon.nayhtoon@sembcorp.com • Mr. Kevin Heng, Commercial Analyst, Sembcorp. E-mail: kevin.heng@sembcorp.com • Mr Tin Aung Swe – Project HSE Manager Tel: +65 6723 3371, E-mail: tin.aungswes@sembcorp.com • Mr. Aung Lwin Oo – Development Manager Tel: +95 9 9726 08080, E-mail: aung.lwinoo@sembcorp.com • Ms. Mya Thandan – Project Human Resources Manager • Naing Naing Aung -HR and Admin Manager 		
Persons to be Notified of Monitoring Visit:	<p>In addition to those listed above:</p> <ul style="list-style-type: none"> • Dennis Foo, General Manager, Sembcorp Myingyan Power Company Ltd Mobile: +95 9 9769 37101, E-mail: dennis.foo@sembcorp.com • Leonilo Barre Caraos -Plant Manager • Yazar Myo Thein -Deputy Plant Manager • Viswanathan Ramasubramanian - Senior Safeguards Specialist, ADB, Tel: +63 2 683 1447, E-mail: vramasubramanian@adb.org • Beatrice Gomez, Safeguards Specialist, ADB Tel: +632 632 4444, E-mail: bgomez@adb.org • Benjamin Man Ling Li, IFC E-mail: bli1@ifc.org 		

	<ul style="list-style-type: none"> • Victor Chuanzhi Su, AIIB E-mail: csu@aiib.org • Che Yu Kok, DZ Bank E-mail: cheyu.kok@dzbank.de
Scope of Monitoring:	<p>The 4th environmental and social monitoring visit will cover the CCGT site and its associated facilities, including any remaining construction locations, the operational Open Cycle facility, transmission line, water supply pipeline, wastewater pipeline, gas receiving station, and any worker accommodation camps that remain open.</p> <p>It will also include an assessment of the current project workforce, land acquisition and other social issues associated with the 13 affected local communities and persons affected by the Project (PAPs).</p> <p>Ramboll Environ will review the management of construction and operations phase environmental and social risks and impacts, as defined in the construction and operations phase Environmental and Social Management Plans (ESMPs), which are designed to ensure that the project complies with Applicable E&S Standards and with commitments made in the project ESIA. Ramboll Environ expects the Operational ESMPs (OESMPs) to be provided at the time of the visit or before. A high level review will be made for the purpose of the site monitoring assessment.</p> <p>We will also assess the status of gaps identified during the previous monitoring visit (January 2018) and of items noted in the environmental and social action plan (ESAP).</p>
Objectives:	<p>The primary objectives of the monitoring visit, as defined in the scope of work, are to:</p> <ol style="list-style-type: none"> a) verify that the Project complies with the Applicable Standards in relation to the environment, local communities, health and safety; b) identify any E&S, labour, and Health and Safety (H&S) related impacts, risks or liabilities which have not been properly mitigated or controlled in the Project; c) assess the technical adequacy and the implementation status of the Project's environmental, safety and social management systems, its management plans and other related documents; and d) recommend any necessary additional preventive and corrective actions to address any ESHS related impacts, risks or liabilities identified to achieve compliance to the Lenders safeguard policy requirements.
Components of Monitoring Plan:	<p>The monitoring visit will include:</p> <ul style="list-style-type: none"> • Inspections of the main construction site including: • Storage of hazardous materials (e.g. oil, fuel, paint and chemicals), including above ground and below ground bulk storage tanks and other storage areas. • Storage of construction materials such as aggregate and cement. • Equipment and materials laydown areas and concrete batching plant (if still operational) • Waste handling and storage areas. • Wastewater treatment facilities (e.g. septic tanks, and silt trap serving vehicle wash facility). • Management of surface water runoff. • Measures to control dust and noise.

- Site medical facilities.
- Project vehicles and designated vehicle routes.
- Inspect open cycle power plant, including:
 - General site inspection
 - Hazardous materials storage
 - Waste storage
 - Process wastewater treatment and disposal
 - Domestic sewage treatment and disposal
 - Stormwater drainage
 - Water treatment plant (demineralised water)
- Inspection of raw water intake station, process water discharge point, pipeline right of way, transmission towers, and gas receiving station.
- Social-related activities off-site, including:
 - Visits to random PAPs (farmers) who were temporarily economically displaced along the elevated water pipeline route.
 - Visits to landowners by the T-line towers in Sa Khar village.
 - Visit to some community investment projects (both projects ongoing and projects complete).
- Meeting with the District Hospital Administrator (previously met in November 2016 and January 2018).
- Meeting with the District Police Chief (previously met in November 2016 and January 2018).
- Discussions with Sembcorp and contractor personnel focussing on the following areas:
 - i. Overview of the construction project, including key environmental and social challenges
 - ii. Overview of any ongoing E&S issues with the affected local communities, including details on the final land acquisition process for the elevated pipeline area
 - iii. Discussion on steps needed to obtain **outstanding** NRC numbers in the Appendix 7 to Ramboll Environ's 3rd Monitoring Report
 - iv. Status of issues raised in our last monitoring report
 - v. Legal compliance status
- Project HSE Manager
 - i. Roles and responsibilities of the HSSE staff
 - ii. Site specific HSSE procedures
 - iii. Management of change
 - iv. Review internal audit and inspection programme and reports
 - v. Environmental monitoring data (including CEMS and ambient air quality)

	<ul style="list-style-type: none"> vi. Non-conformities and corrective actions vii. External reporting of environmental and social issues (e.g. reporting to government agencies and lenders) viii. Status of ESAP issues ix. Update on the HSSE training programme x. Update on the status of the workers' accommodation camps xi. Update on OHS practices and any incidents since the last visit <ul style="list-style-type: none"> • Human Resources Manager <ul style="list-style-type: none"> i. Workforce update (for PCo, contractors and subcontractors with breakdown: local vs. external workers, male and female) ii. Update on the workers' grievance mechanism, and register review • Community Development and Community Relations Managers <ul style="list-style-type: none"> i. Update on community development and community/stakeholder engagement activities since the last visit ii. Update on the Community Grievance Mechanism, new external grievance committee organization, reporting lines and procedures, and Grievance Mechanism register review • Construction workers (discussions during site inspection) <ul style="list-style-type: none"> i. HSSE awareness ii. Knowledge of grievance mechanism • Assess compliance with a sample of requirements in the following environmental and social management plans that were established for the Construction Phase and may still be applicable during the Operations Phase <ul style="list-style-type: none"> i. Air quality and dust management plan ii. Plant and vehicle management and maintenance plan iii. Traffic management plan iv. Noise and vibration management plan v. Surface water management plan vi. Soil and groundwater management plan vii. Biodiversity management plan viii. Waste management plan (hazardous and non-hazardous) ix. Oil and chemical spill contingency management plan x. Emergency preparedness and response plan xi. Occupational health and safety management plan xii. Stakeholder engagement plan xiii. Community development plan xiv. Community health management plan xv. Workers' accommodation management plan
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	<ul style="list-style-type: none"> xvi. Local recruitment and procurement management plan xvii. Project influx management plan xviii. HSSE training plan xix. Cultural heritage management plan xx. Security management plan
<p>Monitoring Schedule:</p>	<p>Tuesday 28th August 2018:</p> <ul style="list-style-type: none"> • 09:00 – 09:30 Opening meeting • 09:30 – 12:30 Company presentation on HSSE management, including project status, overview of operations phase ESMPs, HSSE performance, review of any incidents since the last monitoring visit, trends from recent audits and inspections, status of issues raised in the last monitoring report, issues raised in recent monthly reports, etc. • Discussion during the meeting with Sembcorp and PCo on the issues raised by the NGOs, including any recent criticisms that Ramboll Environ may not be aware of, and receive an update on how they are addressing these criticisms; • 12:30 – 13:30 Lunch • 13:30 – 17:30 Sharmini Ramanathan to complete site inspection of the any remaining internal construction areas and operational areas • 13:30 – 17:30 Sharon Maharg to meet with the following: • Htoon - to obtain an update on the land acquisition and compensation activities with the PAPs impacted by the elevated water pipeline • Human Resources Manager to obtain: <ul style="list-style-type: none"> ○ An update on Project workforce numbers; ○ The status of the transition from the construction to operation phase workforces; ○ Status of the retrenchment plan; ○ Update on the Workers' Grievance Mechanism; ○ Status of use of the workers accommodations camps, etc. • Community Development/Community Relations Managers to get an update on all social activities, including: <ul style="list-style-type: none"> ○ Site visit planned social activities; ○ Status of implementation of the 2018 Community Development Plan and Stakeholder Engagement Plan; ○ Plans for the 2018 Public Stakeholder Engagement Meeting scheduled for November; ○ Update on the Community Grievance Mechanism; ○ Status of completion of the resettlement closure report; and ○ Status of completion of the updated Community Health Management Plan • Sharon Maharg to conduct with PCo staff random interviews with subcontractors' workers that remain to judge their knowledge of Sembcorp's labour policies and procedures.

	<p>Wednesday 29th August 2018 (Sharmini Ramanathan and Sharon Maharg):</p> <ul style="list-style-type: none"> • 09:00 – 13:00 Off-site visits: • Sharmini Ramanathan: the waste disposal site, gas receiving station, raw water intake station, process wastewater discharge point, elevated water pipeline RoW and any remaining workers' accommodation camps • Sharon Maharg: elevated water pipeline RoW (including visits to squatters along route), any remaining workers' accommodation camps, visits to landowners by the T-line towers in Sa Klar village, and meetings with the District Hospital Administrator and Police Chief. <ul style="list-style-type: none"> ○ Include visits to project areas criticized by the NGOs (this should include visits to the 9 PAPs near the elevated water pipeline, if we can get to any of them due to the flooding); ○ Include visits to as many of the 2018 community investment projects as possible (both projects that have been completed and some that are in progress); • 13:00 – 14:00 Lunch • 14:00 – 16:00 Off-site visits (continued) • 16:00 – 17:30 Follow-up discussions in site office <p>Thursday 30th August 2018:</p> <ul style="list-style-type: none"> • 09:00 – 13:00 Sharmini to meet Project HSE Manager for discussions • 09:00 – 13:00 Sharon Maharg to conduct any social site visits that were not able to be conducted the prior day • 13:00 – 14:00 Lunch • 14:00 – 16:00 Any other pending matters/ Preparation for closing meeting • 16:00 – 17:00 Closing meeting (teleconference/skype to allow Lenders to join the call)
Reporting:	A draft report will be available four weeks after the monitoring visit.
Travel & Accommodation Arrangements:	LESC team to stay at Mingyan Hotel from August 27 th to August 31 st . Daily transportation has been arranged by Sembcorp team.
Health & Safety Considerations:	<ul style="list-style-type: none"> • The Ramboll Environ team will take safety shoes. • H&S induction and site-specific PPE to be provided to monitoring team on arrival. • A Ramboll Environ Travel Health and Safety Plan (THASP) has been approved.
Other Issues:	Sharon Maharg (US passport holder), will apply for a business visa prior to arrival in Myanmar. and Sharmini Ramanathan (Malaysian passport holder) will apply for a visa on arrival at the Yangon Airport, Myanmar.