

APPENDIX 1
SITE VISIT PHOTO LOG



Photo 1: View of the Myingyan CCGT Plant as of December 2019



Photo 2: View of the administration building

Title: Fifth Lenders' IESC Monitoring Report
Site: Myingyan CCPP, Myanmar

Date: December 2019
Project: 331000018

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Photo 3: Plant Control Room with Continuous Operations Monitoring System within the main administration building

HSSE PERFORMANCE (Safety & Health) Oct 2019				
	2019 Oct	2019 YTD	Target	2018 Record
Total Man-hour without LTI	103,530	648,530		(PTD) 797,000
DaySince last LTI	31	304		
Fatality	0	0	0	0
Lost Work Day Injury Cases	0	0	0	0
Occupational Disease Cases	0	0	0	0
(Total Recordable Injury Rate (TRIR)	0	0	0.74	0
(Lost Time Injury Rate (LTIR)	0	0	0.55	0
(Accident Severity Rate (ASR)	0	0	124.67	0

Leading HSSE KPIs - Oct 2019				
Parameter	Unit	Oct 2019 Actual	YTD	Plan 2019
BBS observations	card	635	2,415	2500
HSSE training man-hours	hour	119	2,879.5	1824.5
HSSE Audit (Internal/external)	number	106	111	2
Near-miss Investigated	%	100%	100%	100%
Management walk-down	number	17	56	48

Photo 4: Display of HSSE Performance Data adjacent to the Plant Control Room

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Photo 5: View of the two gas turbines



Photo 6: River water storage reservoir

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Photo 7: Sludge from the water treatment plant is collected at three (3) sludge hoppers and disposed by a licensed waste contractor.



Photo 8: The lubricant oil storage area is paved, roofed and access controlled.

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Photo 9: Two (2) fire water storage tanks of 1200 m³ capacity each



Photo 10: Chemical feeding area is roofed and contained within a bunded area.

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Photo 11: All sanitary wastewater from the Myingyan CCGT Plant is routed to the sanitary wastewater treatment plant



Photo 12: MOGE gas receiving station

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Photo 13: The sludge from the water treatment plant is transported to an offsite designated sludge storage area owned and operated by OK Service.



Photo 14: Entrance leading to the river water supply pumping station

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Photo 15: Overview of the river water supply pipeline and pumping station



Photo 16: River water supply pumps

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Photo 17: Debris collecting at the pumping station



Photo 18: Plant designated quarterly water sampling location from the discharge pipeline

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Photo 19: Meeting with the Myingyan District Police Chief



Photo 20: Discussion with a male nurse (name unknown) at the Myingyan District Hospital

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Photo 21: Meeting with a fisherman, villagers and Village Head of Tha Pyay Thar Village



Photo 22: Children in the schoolyard, Tha Pyay Thar Village

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Photo 23: Water Treatment Plant, Tha Pyay Thar Village



Photo 24: Villagers in Tha Pyay Thar Village

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Photo 25: Cow passed on walk through Seik Nyan Village



Photo 26: Water Treatment Plant, Seik Nyan Village

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Photo 27: Rice drying in a yard in Seik Nyan Village



Photo 28: House of PAP no.1, Seik Nyan Village

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Photo 29: Consultation meeting with PAP no.1, Seik Nyan Village



Photo 30: Interior of house of PAP no.1, Seik Nyan Village

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Photo 31: Consultation meeting with PAP no. 2, Seik Nyan Village



Photo 32: Consultation meeting with PAP no. 3, Ma Yoe Kone Village

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Photo 33: Follow-up discussion with PAP no.1, and friend



Photo 34: Shop in Ma Yoe Kone Village

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Photo 35: Farmer riding along the track next to the buried river water supply pipeline



Photo 36: Cultivated area under the bridge along the elevated river water supply pipeline

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Photo 37: Cultivated area near the elevated river water supply pipeline



Photo 38: Fishing on the banks of the Ayeyarwady River, next to the river water pumping station

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**APPENDIX 2
MONITORING PLAN**

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

Monitoring Visit Date:	December 3-5, 2019	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 – Social Specialist • Ms. Sharmini Ramanathan, Ramboll – Environmental Specialist <p>And Susan Vauquelin from Ramboll will accompany the monitoring team</p>		
Principal Client Representatives:	<ul style="list-style-type: none"> • Mr. Kevin Heng, Commercial Analyst, Sembcorp. • Mr Tin Maung Thein – Project HSE Manager • Mr. Aung Lwin Oo – Development Manager • Ms. Naing Naing Aung –Human Resources Manager 		
Lender Team	<ul style="list-style-type: none"> • Beatrice Gomez, ADB • Indira Simbolon, ADB • Ruby Ojha, IFC • Eva Rossi, IFC • Georgi Dzhartov, AIIB • Joana Nicolau, MIGA 		
Persons to be Notified of Monitoring Visit:	<p>In addition to those listed above:</p> <ul style="list-style-type: none"> • Dennis Foo, Managing Director, Sembcorp Myingyan Power Company Ltd • Benjamin Man Ling Li, IFC • Rubens Hideo Noguchi, AIIB 		

	<ul style="list-style-type: none"> Che Yu Kok, DZ Bank
Scope of Monitoring:	<p>The 5th environmental and social monitoring visit will cover the CCGT site and its associated facilities, the operational Open Cycle facility, transmission line, water supply pipeline, wastewater pipeline and gas receiving station.</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 will review the management of operations phase environmental and social risks and impacts, as defined in the operations phase Environmental and Social Management Plans (OESMPs), which are designed to ensure that the project complies with Applicable E&S Standards and with commitments made in the project ESIA. We will also assess the status of gaps identified during the previous monitoring visit (August 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"> verify that the Project complies with the Applicable Standards in relation to the environment, local communities, health and safety; 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; 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 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> <ol style="list-style-type: none"> Inspect open cycle power plant, including: General site inspection Hazardous materials storage – onsite and offsite storage locations (if any) Waste storage -onsite and offsite storage locations 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: <ol style="list-style-type: none"> Visits to the 8 PAPs (farmers) who were temporarily economically displaced along the elevated water pipeline route. Visits to a few of the 13 villages and some community investment projects (both projects ongoing and projects completed). Meeting with the District Hospital Administrator (previously met in

November 2016 and January 2018).

- iv. Meeting with the District Police Chief (previously met in November 2016 and January 2018).
- k) Discussions with PCo and Sembcorp Senior Management Representatives on:
 - i. Overview of the 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; and an update on issues raised by the NGOs and agreed actions to address NGO / community concerns (e.g. upstream and downstream ambient water quality monitoring, development of a participatory monitoring program, updated strategy for better information dissemination).
 - iii. Status of issues raised in our last monitoring report
 - iv. Legal compliance status
- l) Project HSE Manager
 - i. Roles and responsibilities of the HSSE staff for operations phase
 - ii. Site specific HSSE procedures for operations phase
 - iii. Management of change
 - iv. Review internal audit and inspection programme and reports
 - v. Environmental monitoring data from December 2018 to current monitoring reports (including CEMS, ambient air quality and boundary noise)
 - 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
- m) Human Resources Manager
 - i. Workforce update (with breakdown: local vs. national and foreign workers, male and female)
 - ii. Update on the worker skills training programme
 - iii. Update on the workers using rental housing
 - iv. Update on OHS practices and any incidents since the last visit
 - v. Update on the workers' grievance mechanism, and register review
- n) Development and Community Relations Managers
 - i. Update on community development and community/stakeholder engagement activities since the last visit
 - ii. Update on the Community Grievance Mechanism, external grievance committee organization, and a review of the Grievance Mechanism register
- o) Current workers (discussions during site inspection)
 - i. HSSE awareness

	<ul style="list-style-type: none"> ii. Knowledge of grievance mechanism <p>p) Assess compliance with a sample of requirements in the following environmental and social management plans that were established for the Operations Phase including review of all available environmental and H&S monitoring data.</p> <ul style="list-style-type: none"> i. Environmental Management Plan which includes: <ul style="list-style-type: none"> ▪ Air Quality Management ▪ Noise and Vibration Management ▪ Surface Water Quality Management ▪ Waste Management ii. Security Management Plan iii. Occupational Safety and Health Management Plan iv. Emergency preparedness and response plan v. Stakeholder Engagement Plan vi. Local Recruitment and Procurement Management Plan vii. Community Development Plan (which includes Community health management)
<p>Monitoring Schedule:</p>	<p>Tuesday, December 3, 2019:</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 ESMP, 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 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 operational plant areas and potentially, the gas receiving station, raw water intake station, process water discharge point. • 13:30 – 17:30 Sharon Maharg to meet with the following: • Human Resources Manager to obtain: <ul style="list-style-type: none"> ○ An update on implementation of the Operations Phase Local Recruitment and Procurement Management Plan including Project workforce numbers; workers skills training program; and status of the retrenchment plans for prior construction phase workers; ○ Update on the Workers' Grievance Mechanism and database; and ○ Information on the workers using rental housing. • 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 2018-2019 Community Development