

# Environmental and Social Monitoring Third Report

Project Number: 48368-001  
July 2018

## MYA: Myingyan Natural Gas Power Project Part 2

Prepared by Environ Myanmar Co Ltd.

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## **APPENDIX 4 – THIRD STAKEHOLDER ENGAGEMENT MEETING PRESENTATION (NOVEMBER 2017)**



3<sup>rd</sup> Stakeholder Engagement Meeting  
November 2017



**sembcorp**

Sembcorp Myingyan Power Co., Ltd

225MW Myingyan IPP Project

# Objectives

The purpose of today is to:

- Introduction
  - Project Overview and Updates
  - Environmental and Social Updates
  - Corporate Social Responsibilities Updates
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- You can ask questions/ raise your concerns during this meeting or provide feedback at the end of the meeting

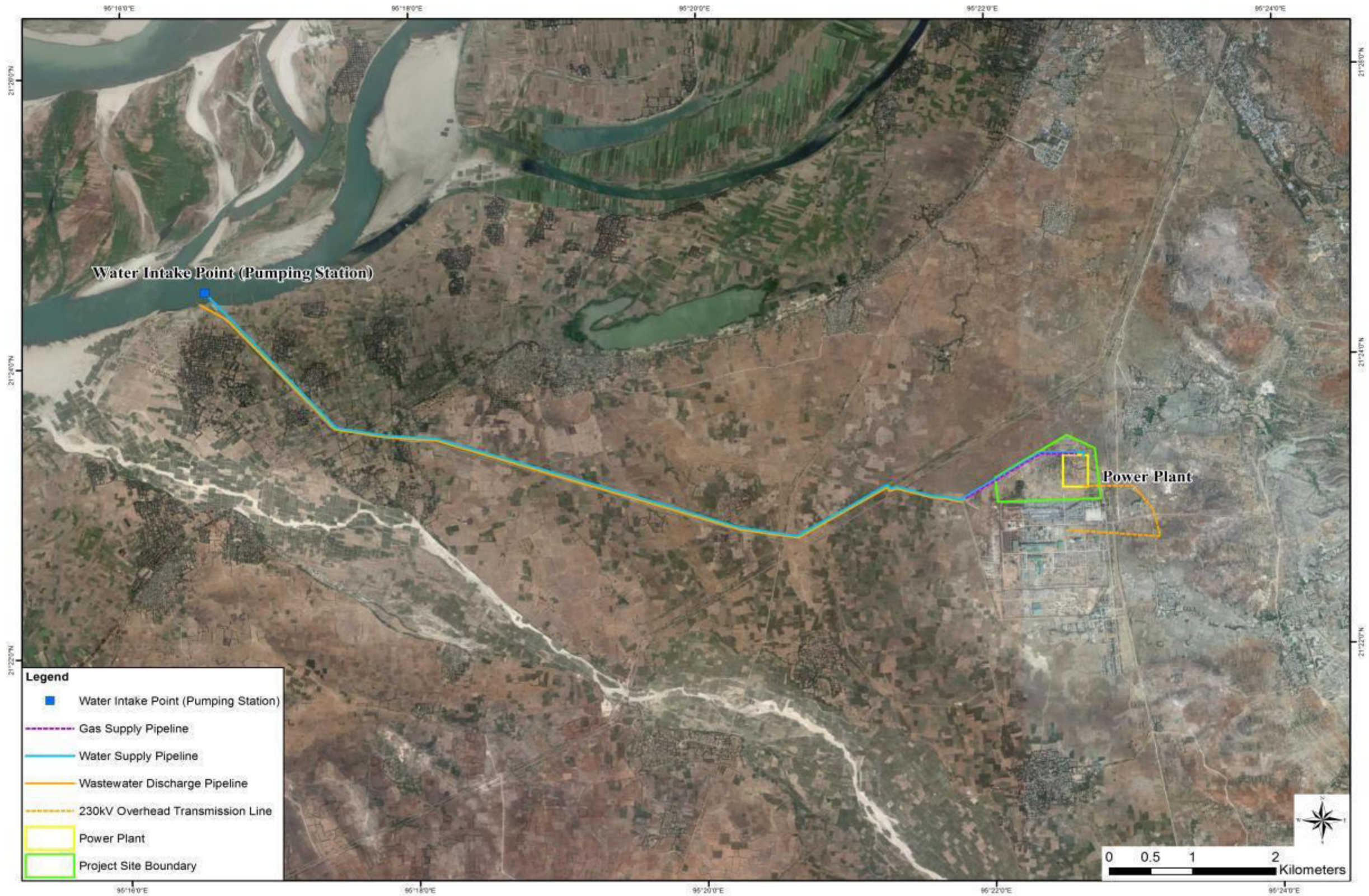
# Who is Sembcorp Industries?

- Sembcorp Industries is a leading energy, water and marine group with operations across 15 Countries in 5 continents worldwide
- With facilities of over 11,000 megawatts of gross power capacity and over nine million cubic metres of water per day in operation and under development, Sembcorp is a trusted provider of essential energy and water solutions to both industrial and municipal customers
- Myingyan IPP is the first international project financed Independent Power Producer (IPP) Project in Myanmar and is 100% owned by Sembcorp Myingyan Power Company Limited

# Why are we here?

- Sembcorp Myingyan Power Company Limited has been selected by the Ministry of Electricity and Energy (MOEE) to develop a 225MW Combined Cycle Gas Turbine (CCGT) power plant in Myingyan Township.
- The “ESIA” has been undertaken to understand potential environmental and social impacts and opportunities in accordance with national and international standards. Our ESIA has been approved by the Ministry of Natural Resources and Environmental Conservation (MONREC)

# Project Overview



# Perspective view of the Plant





# Project Update (1 of 2)



# Project Update (2 of 2)



# Employment/ Economic

- Impact: The project will create employment opportunities. There will be some job opportunities available and it will depend on the skills required by the Project and available in the local villages.
- Mitigation measure: A local content plan will be developed so that some job opportunities are made available to local villagers. However, this will depend on the skills required by the Project.

# Local Recruitment & Procurement

- To assist in the development of sustainable local employment and businesses of all local communities
- Recruitment and procurement are adequately communicated to all EPC contractors and suppliers and is included within their contractual arrangements



# Project Worker's Accommodation Management

- Showers and sanitary facilities
- Drainage & waste water management
- Kitchen & cooking facility
- Clean Drinking Water
- Medical facility
- Security control measure
- Code of Conduct (in-house rule)
- Recreational / Entertainment facilities
- Bed arrangements and storage facilities
- Fire safety & emergency preparedness



# Air Quality

- Impact: The power plant will generate air emissions during operations
- Mitigation measure: A variety of mechanisms will be used to further reduce emissions – including dry low NOx burners that meets the World Health Organization standards
- Monitoring: Online monitoring system will be installed on the stack to monitor air emissions

# Air Quality

- The Gas Chromatograph to continuous analyze the composition of Inlet Fuel Natural Gas



# Air Quality

- Major Design Basic of Existing Gas Turbine Emission Control at Burner ( GT's COMBUSTOR ) for Dry Low NO<sub>x</sub>
- Control of emission of NO<sub>x</sub> will be achieved by Dry Low NO<sub>x</sub> (DLN) burners





# Air Quality

- Continuous Emission Monitoring System on BOTH GT Bypass Stack & Boiler Out Let Stack



# Wastewater Discharge

- Impact: Treated wastewater will be discharged to the Ayeyarwady River
- Mitigation measure: Wastewater will be collected within the plant and treated within the plant on site in line with World Bank Group standards
- Monitoring: The water intake point and discharge point will meet international standards. Temperature will be monitored bi-weekly and sedimentation will be monitored quarterly

# Soil and Groundwater Quality

- Impacts: Impacts may arise as a result of potential leaks or spills of oil, lubricants, fuels or chemicals and improper handling of effluent and waste
- Mitigation Measures: Waste will be properly disposed. Chemicals and fuels will be properly stored and handled
- A site specific emergency response plan will be developed and implemented

# Community Health and Safety

- Promoting Awareness on Prevention of STD/ HIV / AIDS / TB Transmission
- Conducting Blood Test for HIV
- Collecting sample for TB Test



# Noise and Vibration Management (1 of 2)

- Impacts: Noise will be generated of the gas and steam turbines, steam generators and the cooling tower.
- Mitigation measures: Plan daily work, reduce noise at source, regular inspection, Appropriate PPE, Awareness Campaign

Awareness Briefing



PPE (Ear Protection)



Noise level monitoring



Soundproof Machine



# Noise and Vibration Management (2 of 2)

- Monitoring: Installed Noise Sensitive Receivers and enclosed GT housing



# Activities

There will be a number of activities resulting from the Project

- ❑ A water supply pipeline approximately 14km in length from the Ayeyarwady River to the Project site. The pipeline will be buried to minimise the impact
- ❑ A treated wastewater pipeline approximately 14km in length from the Project site to the Ayeyarwady River. The pipeline will be buried to minimise the impact
- ❑ A 230 kV overhead transmission line approximately 2.5km in length. The routing is designated by MOEE

Please note that the Project will produce and sell electricity to MEPE; and MOEE in turn will be responsible for distribution of electricity

# Traffic Safety Management (1 of 2)

- Using Designated Route only





# Traffic Safety & Security Management 2 of 2

- Promoting Awareness on Prevention of Traffic Incident & Crimes



# Dust Control

- Spray water in site and public road
- Traffic impact assessment survey



# Biodiversity Management Plan

- To protect and conserve biodiversity
- To maintain the benefits from ecosystem services
- To promote the sustainable management of living natural resources through the adoption of practices that integrate conservation needs and development priorities



IFC – Performance Standard 6 Biodiversity Conservation and Sustainable Management of Living Natural Resources

# Environmental Day

- Planting trees



# Corporate Social Responsibility

- Key areas of focus will likely be education, skills development, healthcare and water
- Further engagement will be undertaken after the plan is developed



# Community Development Plan

## 13 Villages



# Ongoing Engagement

Engagement will continue throughout the life of the Project.

- Sustainable public stakeholder meeting to be conducted regularly



# Grievance Management

A part of the engagement process, a grievance mechanism has established

- The grievance mechanism available to all stakeholders
- If you have an issue or concern, there will be an opportunity to raise it with Sembcorp Myingyan Power Company Ltd through the grievance mechanism
- Formed a Grievance Committee with a panel of Village Heads





# Contact Details



Comments, concerns, queries and questions are welcomed.

Sembcorp Myingyan Power Company Limited

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**Thank You**