

Environmental Impact Assessment (EIA) for the Development of New Yangon City Project Masterplan

EIA Consultation April 2019

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Agenda

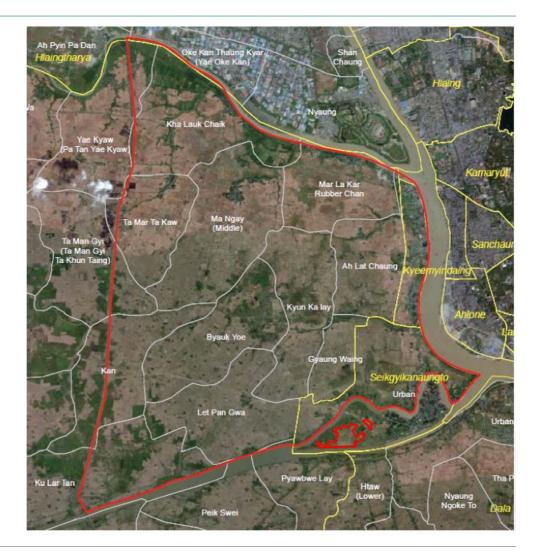
	Topic
1	Introduction
2	Project Description
3	EIA Study
4	Baseline Data Collection and Results
5	Stakeholder Engagement
6	Individual Component Details
7	Impact and Mitigation Measures
8	EIA Schedule (Next Steps)
9	Contact Details



Project Description

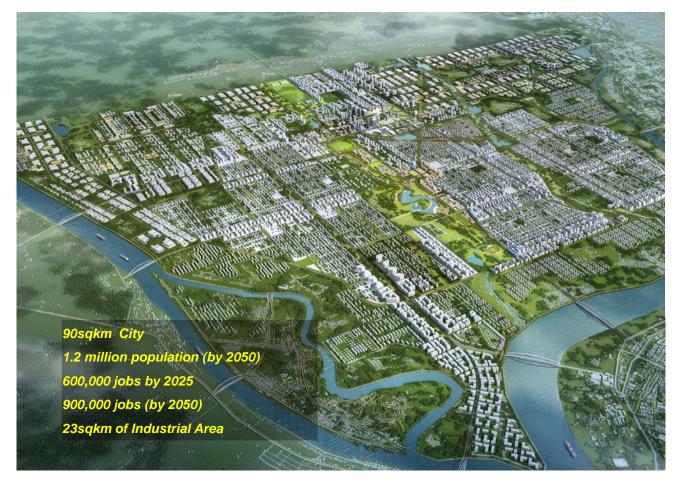
Project Location

- The Project Area is located in a semiurban to rural area in Seikgyi Kanaungto, Twantay, Hlaing Tharyar and Kyee Myin Daing Townships to the West of Yangon
- It is separated from the main urban centre of Yangon by the Hlaing River to the East and from the Dala Township by the Twantay Canal to the South

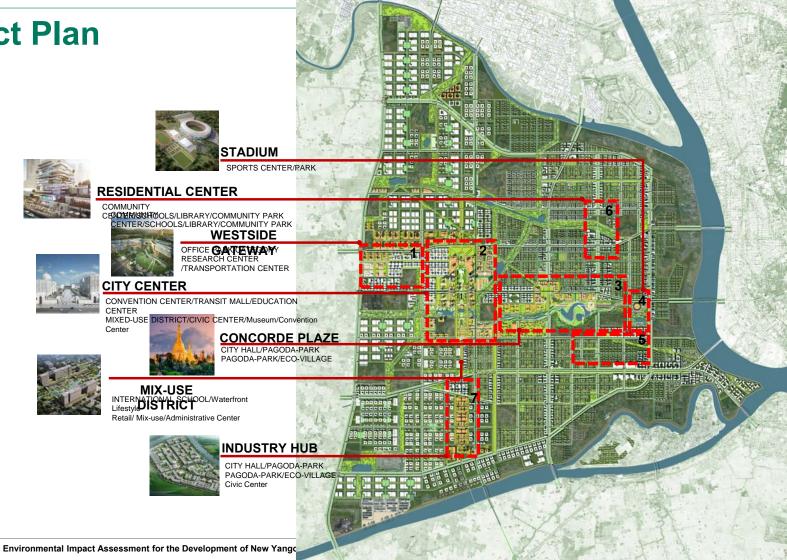


Project Proponent

The New Yangon
 Development
 Company, Ltd.
 (NYDC), incorporated under the Yangon
 Regional
 Government, plans to develop the New
 Yangon City and its future extension area



Project Plan



Project Progress - Masterplanning





EIA Study

ERM: Third Party Organization EIA Studies

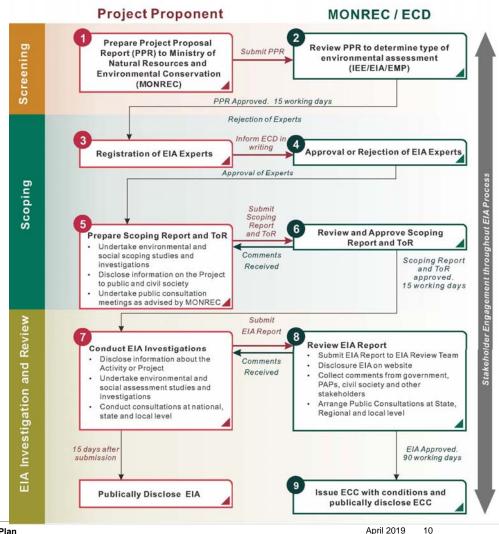
- ERM is the world's largest independent Sustainability Company
- Global Company, over 5,000 employees worldwide, 160 offices in 41 countries
- ERM has an office in Yangon with local and international staff
- ERM is registered as an EIA Consulting Firm with **MONREC**
- ERM has been active in Myanmar since 1996 and have completed over 100 IEE, EIA, and EMPs
- Working with EQM Myanmar to undertake local engagement

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vironmental Conservation Department Ministry of Natural Resources and Environmental Conservation

EIA Process

- **Project Proposal Report** January 2019
- Meeting with ECD January 2019
- Third Party Registration February 2019
- **Scoping Consultation**
 - Yangon Regional Government and Parliament Representatives – January 2019
 - Townships Consultation February 2019
- **Preparation of Scoping Reports**
- **Baseline Data Collection**
 - Environmental February to March 2019
 - Social: March 2019
- Second round consultation
 - Township and Village Tracts consultation -**April 2019**
- **Preparation of EIA reports**

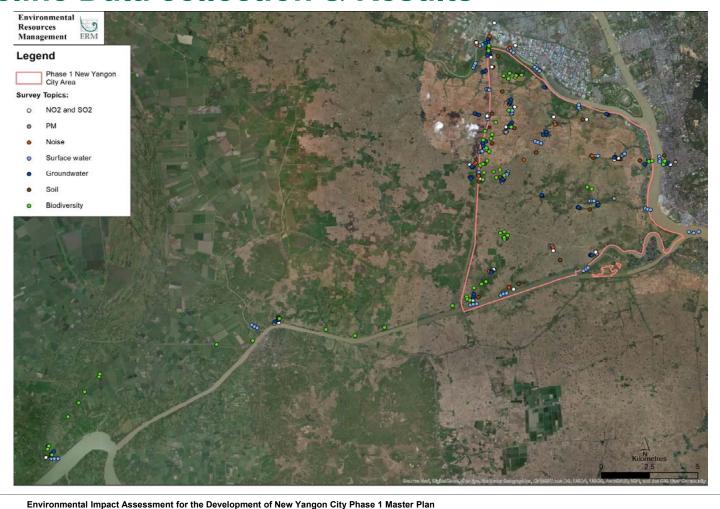




Baseline Collection & Results

Baseline Data collection & Results

www.erm.com



Baseline Data Collection & Results

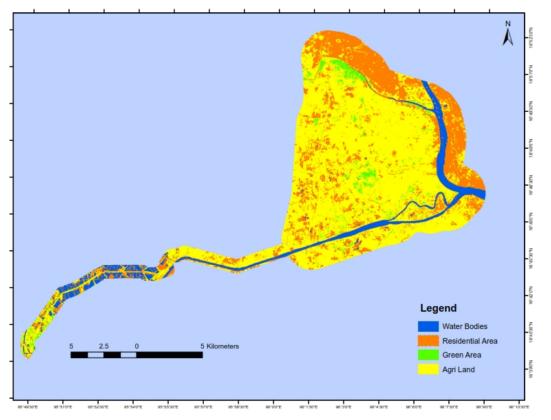
Topic	Locations	Parameters and Remarks
Air	27	 Tested for dust and pollutants (NO2/SO2) Most samples within standards for dust. Some slight exceedances in Hlaing Thayar, Kyee Myin Daing, and Twantay
Noise	27	Sound levels measured during day and night.Majority of point measured exceed Standards.
Soil	24	Tested for pH, metals, pollutantsAll within the Standards
Groundwater		 Tested for pH, metals, and other pollutants Chemical Oxygen Demand – exceeded in two stations (Punn Hoing River)
Surface water		stations (Punn Hlaing River)







Baseline Data Collection & Results















Social: Household data collection

- The sample size is 392 households;
- HH data collection size is based on the % of village area in relation of total area of the project
- The villages selected to collect data are based on the impact due to the project facilities

Township	Area of Village Tracts/Wards (km2)	% of the Village Tracts/Wards are in relation of total area (182.5 km2)	HH data collection size
Twantay	124	68	265
Seikgyi Kaungto	12.1	7	24
Kyee Myin Daing	12.5	7	29
Hlaing Tharyar	22.3	12	48
Ahlone	3.3	2	7
Dala	8.3	5	19
TOTAL	182.5	100	392



Stakeholder Engagement

Who we engage

National Level

Relevant Ministries, Government Departments, Civil Society and Research Organisations.

Regional Level

Regional Government including Chief Minister,
Regional Parliamentary Representatives and Relevant
Departments





Township / Village Tract/ Ward Level

General Administrative Department, Relevant
Government Departments, Township Level Authorities
and Township Parliamentary Representatives of Kyee
Myin Daing, Ahlone, Seikgyi Kanaungto, Hlaing
Tharyar, Twantay, Dala, Hlaing, Kamayut, Lanmadaw
and Sanchaung Townships, CSOs, NGOs, Village
Tract Leaders, Ward leaders, Local Communities and
Other Relevant Stakeholders





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How we engage

Present



Source: satukis.info

Consult

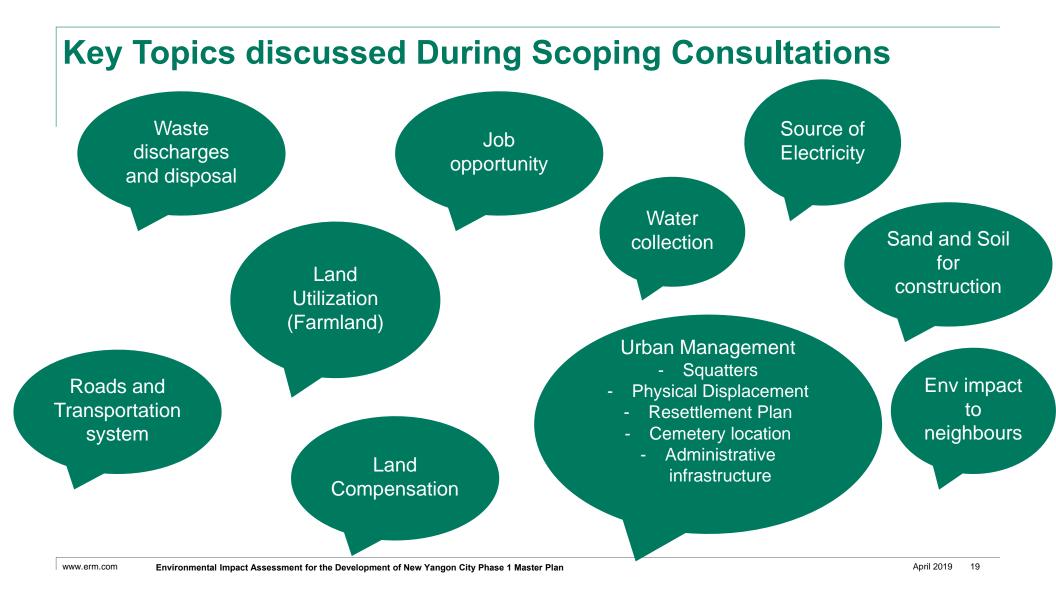


Source: art4clip.com

Communicate



Source: fpl.com





Individual Component Details

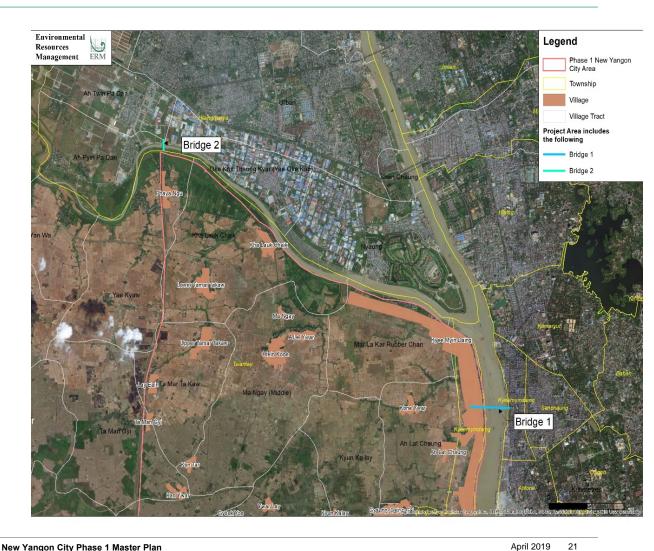
Bridges

Where

- Yangon River Bridge: **Kyee Myin Daing** Township
- Pan Hlaing River Bridge: Hlaing Tharyar Township

When

- 2019 to 2021 (2 years)
- 2020 to 2022 (2.5 years)

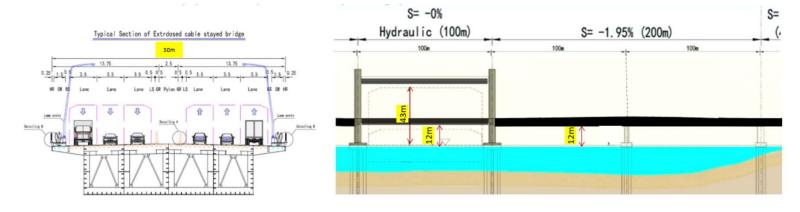


Yangon River Bridge

How

- Two-way-six-lane
- 100 years lifetime

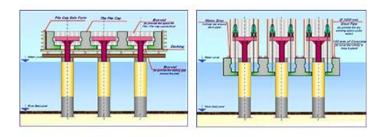


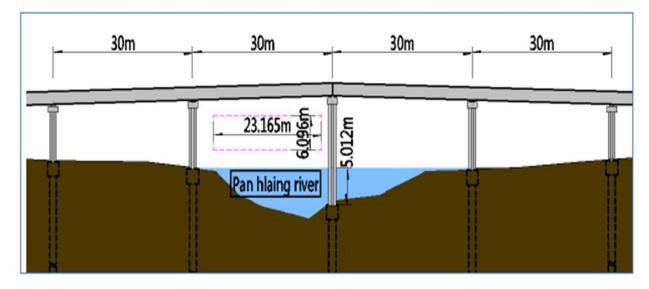


Pan Hlaing River Bridge

How

- One-way two lanes
- 100 years lifetime





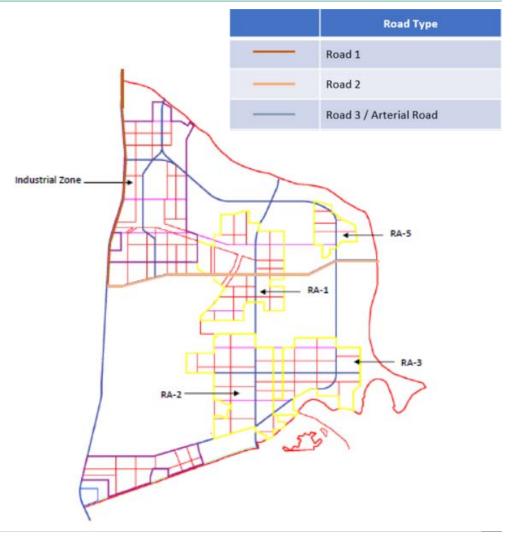
Roads

Where

 Twantay, Seikgyi Kanaungto and Kyee Myin Daing Townships

When

- Road 1: 2019 to 2024 (5 years)
- Road 2: 2019 to 2021 (2 years)
- Road 3: 2019 to 2023 (4 years)



Roads

How

Road Type	Length (km)	ROW (m)
 Road 1	7.22	43.0
 Road 2	9.17	50.0
 Road 3 / Arterial Road	43.40	43.0/50.0/64.0
 Sub Arterial Road	20.41	41.5/43.5
 Collector Road (IZ 1, RA)	115.42	35.0
Total Road Area	195.62	

Arterial Road:



Collector Road

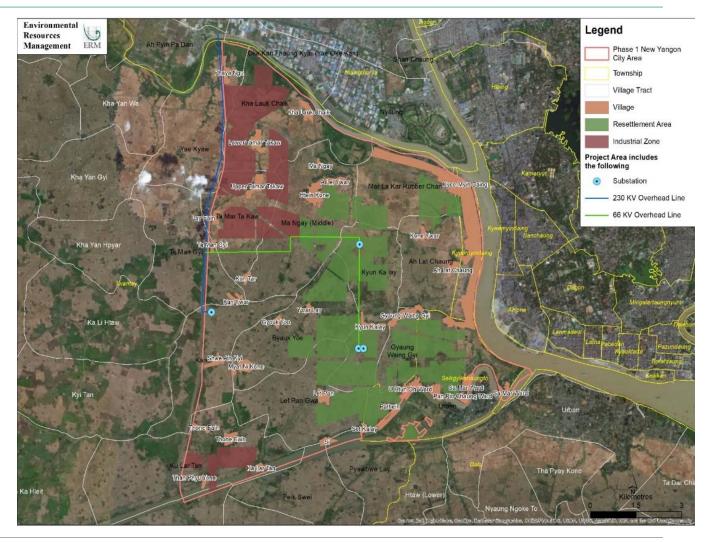


Local Road



Power

- Where
 - Twantay Township
- When
 - 2019 to 2022 (3 years)



Power

- How
 - Transformer substation
 - 230 kV x 1,
 - 66 kV x 2
 - 33 kV x 1
 - Transmission lines
 - Distribution lines
 - 230 kV, 66 kV and 11 kV lines





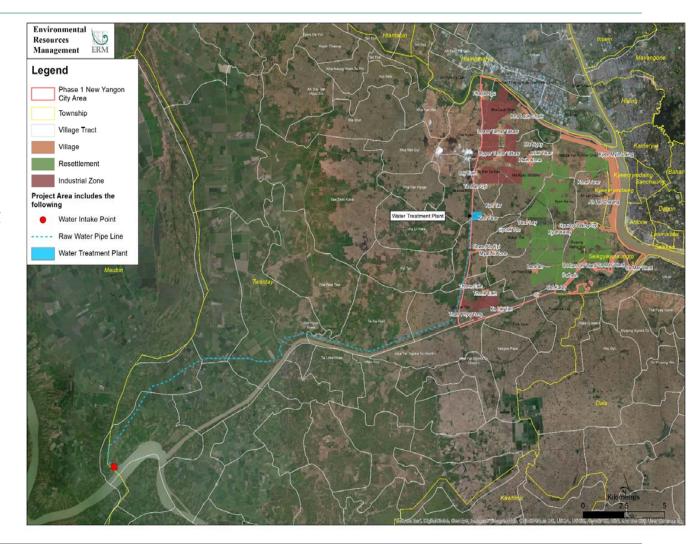
Water

Where

- Ta Man Gyi Village Tract
- Twantay Township

When

• 2019 to 2021 (2 years)



April 2019

Water

- How
 - **Water Treatment Plant**
 - 60,000m³ per day and expandable to 180,000m³ per day
 - Raw water pipeline
 - **Treated Water Distribution Lines**
 - **Water Intake Point**

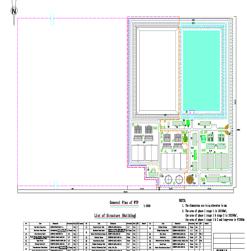




Figure 5-71 Backwash Pump House



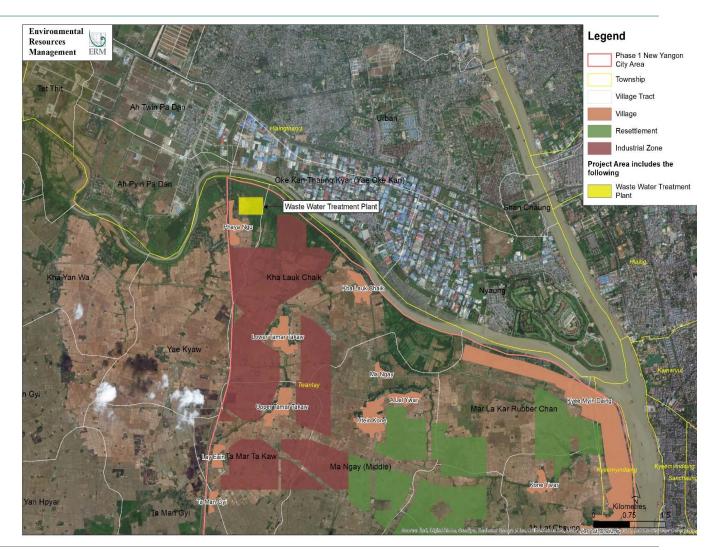
Waste Water

Where

- Yae Kyaw Village Tract
- Twantay Township

When

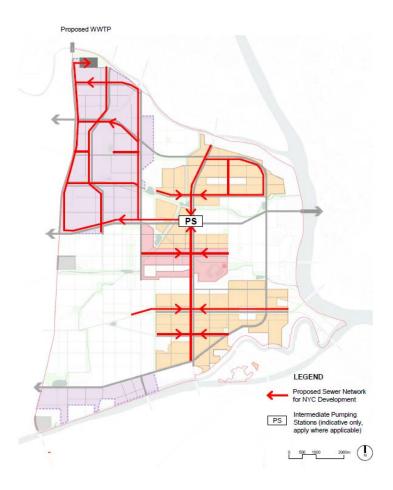
• 2019 to 2021 (2 years)



Waste Water

- How
 - Waste water Treatment Plant
 - process 40,000 m³ per day and expandable to 120,000 m³ per day
 - Waste water and storm water collection systems
 - Collection and discharge of rainwater and sewage will be separated





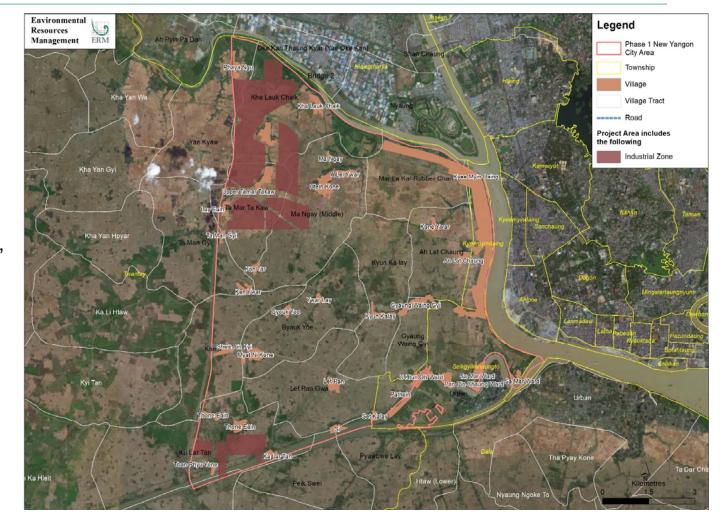
Industrial Zone

Where

- Twantay Township
- 10 sq.km in the north
 west (Kha Lauk
 Chauk, Ta Mar Ta Kaw,
 Ma Ngay Village
 Tracts)
- 3 sq. km in the south west (Ku Lar Tan Village Tract)

When

2019 to 2027 (8 years)



Industrial Zone

How

- Heavy, medium, and light industry
- With Related infrastructure such as fire stations, sewage pumping stations, refuse transfer stations, and administration buildings





Impact and Mitigation Measures

Potential Impacts

- Air
- Noise and Vibration
- Waste
- Workers Influx
- Traffic





Source: procoen.com





Source: dream/time.com



Source: panaynews.net

Preliminary Identification of Potential Impacts and Proposed Mitigation Measures

Impact	Mitigation Measures
Air Quality	 Emission in line with International and Environmental Quality Emissions) Guidelines (EQEG) Dust suppression methods Good maintenance (vehicles and machinery)
Noise Impact	 Emission in line with International and Environmental Quality Emissions) Guidelines (EQEG) Good maintenance (vehicles and machinery) Install temporary noise control barriers where appropriate
Water Quality	 Discharge in line with International and Environmental Quality Emissions) Guidelines (EQEG) Good storage (fuel, equipment and construction materials to minimize soil contamination or water pollution) Techniques to minimise compaction of soil
Waste Impact	 Discharge in line with International and Environmental Quality Emissions) Guidelines (EQEG) Waste disposed through third party
Biodiversity (Flora and Fauna)	 Disposal of materials in accordance with the dredge material management plan. Retain major existing channels and create new retention ponds as part of flood mitigation which may increase aquatic habitat

Preliminary Identification of Potential Impacts and Proposed Mitigation Measures

Impact	Mitigation Measures
Traffic Impact	Traffic mitigation measures to be proposed
Socio-economic Impact	Grievance Redress Mechanism
Health and safety	 Health and safety procedures
Construction Workforce	 Local recruitment priority
Cumulative Impact	Maintain in newly restored sites
Job Opportunities	Local recruitment priority
Landscape and Visual	Design mitigation measures to be proposed



EIA Schedule (Next Steps)

Way Forward

- Consultation will continue throughout the lifetime of the Project
- Finalize EIA report
- Submit to ECD and Disclose

Disclosure

- NYDC's website
- Advertisement on local newspapers
- EIA Executive Summary Document (Myanmar Language) will be disclosed to GAD in Twantay, Hlaing Tharyar, Kyee
 Myin Daing, Ahlone, Seikgyi Kanaungto and Dala Townships



Contact Details



Environmental Impact Assessment (EIA) for the Development of New Yangon City Project Masterplan

To provide comments please use the following contact details:

NYDC

Address: New Yangon Development Company, 56 Chindwin Road, Kamayut Township,

Yangon, Myanmar.

Telephone: +95 (9) 402111525

Email: comments@nydc.com.mm

Website: <u>www.nydc.com.mm</u>

Facebook: https://m.facebook.com/NydcMyanmar/

<u>ERM</u>

Address: Unit 01, 20th Floor, Crystal Tower, Junction Square, Kyun Taw Road, Kamayut

Township, Yangon, Myanmar.

Email: thaesu.kyi@erm.com

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