

EIA FOR THE PROPOSED PLASTIC RECYCLING PLANT AT 32 (LOT 7802), TAMAN PERINDUSTRIAN RINGAN PERMATANG TINGGI, MUKIM 14, DAERAH SEBERANG PERAI TENGAH, PULAU PINANG

EIA Prescribed Activity 14b(ii): *Waste Treatment and Disposal – Solid Waste: Construction of Recovery Plant or Recycling Plant*

Project proponent: MS Wawasan Industries Sdn Bhd.
 EIA consultant: Greenwich Environment Sdn Bhd.
 • EIA team member: Hung Yee Hon (CEP-C0092), Fennysharty Hazil (CEP-CS0156)

Project Concept

Recycle plastic waste (ABS) with total capacity of 150 MT/mth

Existing industrial lot with factory building (925m²)



The nearest receptors:
 - Kg Permatang Tinggi (350m)



- Tmn Usaha (350m)

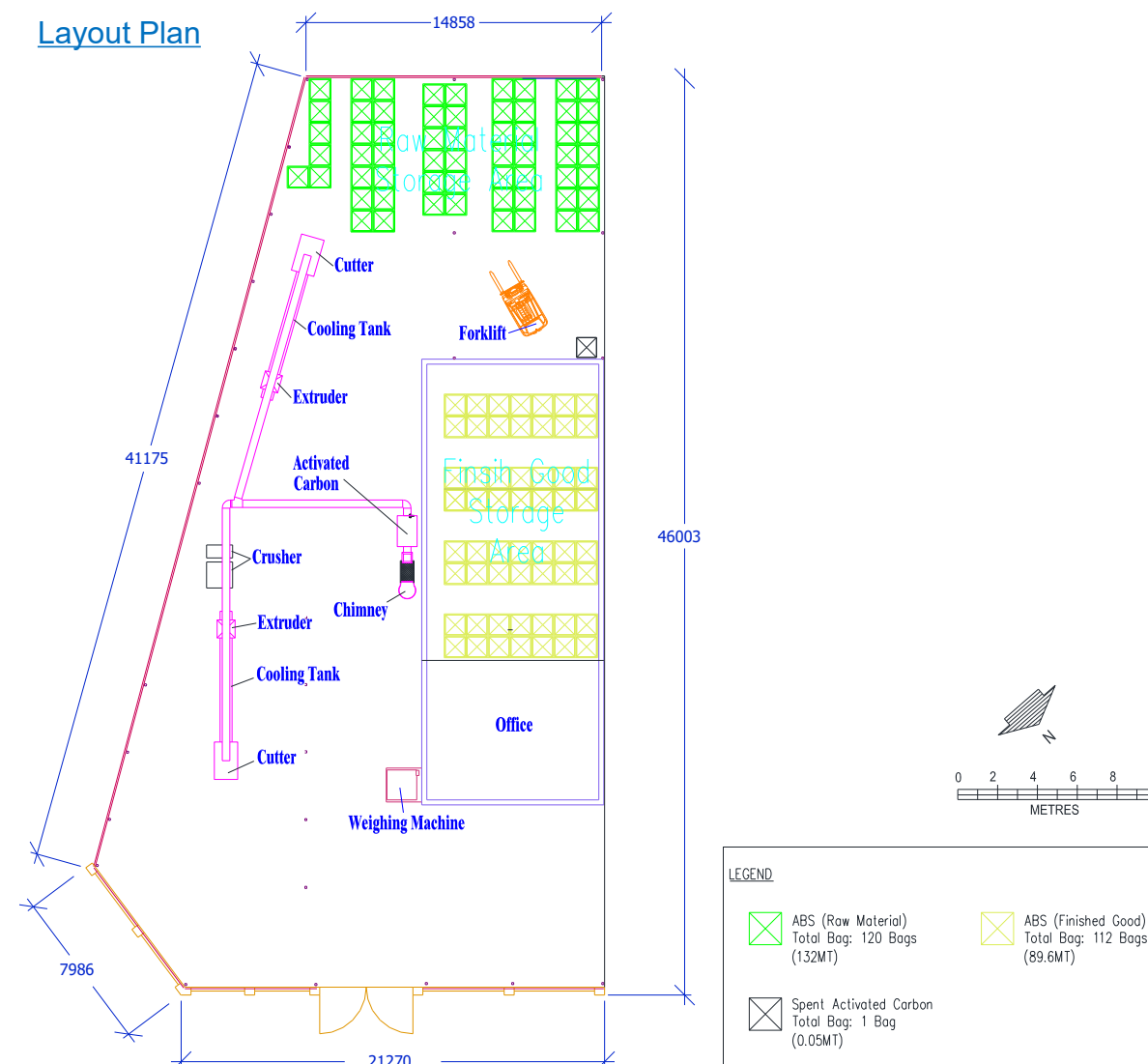


PROJECT DESCRIPTION

Waste Sources: local industries.

Waste Acceptance Criteria: 100% plastic with no impurities, metal, oil and organic attachment.

Layout Plan



Project Components

- 2 crushers
- 2 processing lines incl. extruder, cooling tank & cutter
- Storage areas for raw materials, products and generated scheduled wastes.

Statement of Need

Fully utilize the existing equipment & facilities for waste recycling

Provide recycling of wastes in an efficient and environmental friendly manner

Assist in waste reuse and minimization

Enable and promote of waste reuse in the region

Support to the Government's recycling and reuse campaign

Enable the enhancement of spin off business

Process Description

Crushing – Extrusion – Cooling - Cutting – Packing

EXISTING ENVIRONMENT

Land use – industrial within 250m radius. The nearest receptor is Kg Permatang Tinggi & Tmn Usaha (350m from project site).

Drainage System

Drainage system → Tributary of Sg Junjung → Sg Junjung → Sg Jawi → Straits of Penang

No downstream water intake point

BASELINE STUDY

Component	Parameter
Drainage Water Quality	Full parameters of Standard B
Ambient Air Quality / Odour	PM10, PM2.5, NO ₂ , SO ₂ , VOC
Ambient Noise Level	L _{eq} , L ₉₀ , L ₁₀ , L _{max} , L _{min}



RESULTS

Drainage Water Quality: W1 & W2 categorized as 'polluted'. W3 & W4 categorized as 'slightly polluted'.

Air Quality: Parameters of PM10, PM2.5, NO₂, SO₂ were below the reference limit of the Malaysian Recommended Air Quality Guidelines. VOC recorded from 1.67 to 2.17 mg/m³.

Noise level: The average noise level (L_{eq}) recorded was below the permissible sound level for all stations.

IMPACT EVALUATION

Impacts during Construction: Insignificant impact involving machinery installation only in short period.

Impacts during Operations:

Potential Impact	Project Activities and Sources of Pollution	Impact Magnitude
Air Quality	• Emission from recycling process	Minor
Water Quality	• Accidental spillage.	Minor
Noise Pollution	• Plant operational noise. • Vehicular movement.	Minor
Scheduled Waste	• Residues generated from recycling process	Minor
Socio-economic	• Disturbance to surrounding receptors	Minor
Hazard & Risk	• Extrusion operations	Minor

ENVIRONMENTAL MANAGEMENT PLAN

