

SUSTAINABLE SCHEDULED WASTE TREATMENT CENTRE (SSWTC)

STATE-OF-THE-ART WASTE MANAGEMENT FACILITIES

76 SCHEDULED WASTE CODES

SW1 METAL & METAL-BEARING WASTE

101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110

SW2 WASTES CONTAINING PRINCIPALLY INORGANIC CONSTITUENTS

201 | 202 | 203 | 204 | 205 | 206 | 207

SW3 WASTES CONTAINING PRINCIPALLY ORGANIC CONSTITUENTS

301	302	303	304	305	306	307	308	309	310	311	312
313	314	315	316	317	318	319	320	321	322	323	324
325	326	327									

SW4 WASTES CONTAINING EITHER ORGANIC OR INORGANIC CONSTITUENTS

401	402	403	404	405	406	407	408	409	410	411	412
413	414	415	416	417	418	419	420	421	422	423	424
425	426	427	428	429	430	432					


SW5 OTHER WASTES

501


OUR LOCATION



Sustainable Scheduled Waste Treatment Centre (SSWTC), PT 1682, Jalan Bukit Tagar, 45600, Bestari Jaya, Hulu Selangor, Selangor

 Scan Here for More Information



 Scan Here for More Information



NAZA BES

Naza B Eco Services (NBES) specializes in sales, marketing, collection, packaging, cleaning, clearing, remediation, and transportation management of scheduled wastes. Our services extend beyond waste management to provide comprehensive solutions for diverse environmental challenges.

-  **Sales & Marketing**
-  **Abandon Vehicles Management**
-  **Transportation Management**
-  **Sludge Management**
-  **Support Services**





SUSTAINABLE SCHEDULED WASTE TREATMENT CENTRE (SSWTC)

An integrated Waste Management Facility approved to receive 76 Scheduled Waste (SW) Codes generated all over the country.

Adopting sustainable and modern technologies and best practices to ensure full compliance with environmental standards and protection of the environment.

VISION

To become the foremost leader in sustainable waste management and recycling. We are dedicated to setting industry benchmarks, integrating cutting-edge technologies to minimize environmental impact, and fostering a circular economy.

MISSION

We aspire to be a catalyst for change in our industry for a more environmentally sustainable and socially equitable future. We are dedicated to addressing and resolving waste challenges through our unwavering commitments to sustainability and innovation.



SCHEDULED WASTE-TO-ENERGY (SWTE) PLANT



SWTE incineration capacity: Approximately 20,000 tons annually

SWTE incineration system includes:

- High-temperature Rotary Kiln-Stoker
- Secondary Combustion Chamber
- Effective flue gas-cleaning system

Ensures thermal destruction efficiency of 99.99% to meet Clean Air Regulation 2014 emission standards by DOE Malaysia

Treats various wastes:

- Organics: mineral oil waste, solvents, pesticides, waste with halogens and sulfur
- Inorganics: metal hydroxide waste with over 10% Total Organic Carbon (TOC)
- Clinical and pathogenic wastes

By-products include:

- Slag
- Fly ash
- Flue-gas cleaning residues



LABORATORY FACILITY



- Objective: Obtain timely, accurate, and reliable results for waste testing
- Equipment: Latest technology for waste analytical testing
- Function: Determines treatment and disposal prescriptions based on approved Waste Acceptance Criteria
- Compliance: Adheres to regulations outlined in JNAM's license



WAREHOUSE



- Objective: Storage of waste awaiting treatment
- Gross storage area: 10,300m³
- Function: Supporting facility for operational flow optimization
- Storage criteria: Waste categorized by risk characteristics and compatibility



SOLIDIFICATION PLANT



- Objective: Stabilize heavy metal content (e.g., cadmium, chromium, copper, arsenic, lead, nickel, zinc)
- Treatment process: Solidification for waste failing the Toxicity Characteristic Leaching Procedure (TCLP) test
- Final disposal location: Secured Landfill
- Hybrid Solidification Plant:
 - Capable of receiving liquid waste (e.g., acid, alkaline)
 - Pretreatment: Neutralization process before solidification



SECURED LANDFILL



- Objective: Prevent leachate seepage into groundwater
- Landfill design: Triple liner system
 - Compacted soil liner: 600mm thickness
 - Minimum permeability: 1 x 10⁻⁷cm/s
 - High-density polyethylene (HDPE) geomembrane liners:
 - Two layers with 1.5mm thickness each
 - Protection layer: Non-woven geotextile between HDPE liners



DRYER PLANT



- Objective: Reduce moisture content of specific waste types, mainly sludge waste
- Dryer plant capacity: Approximately 20,000 tons annually
- Heat source: Excess heat from Scheduled Waste-to-Energy Facility



WASTEWATER MANAGEMENT FACILITIES

LEACHATE TREATMENT PLANT (LTP)



- Treatment objectives: Remove organic matter (e.g., BOD, COD), suspended solids, heavy metals, and Ammoniacal Nitrogen
- Leachate Treatment Plant (LTP) capacity: 150m³/day
- Collection method: Leachate channeled via drainage layer and network of collection pipes
- Treatment processes:
 - Physical-chemical treatment
 - Biological treatment
 - Tertiary filtration system
 - Advanced treatment using the FENTON system

SURFACE WATER TREATMENT PLANT (SWTP)



- Treatment Objective: Treat uncontaminated surface water runoff within the facility
- Surface Water Treatment Plant (SWTP) capacity: 250m³/day
- Treatment stages: Flocculation, sedimentation, filtration
- Treated water usage:
 - Reused for sanitary purposes within SSWTC
 - Treated water can be used to supplement the supply to SWTE for the protection of scrubbing and cooling equipment in the SWTE plant when and if required.