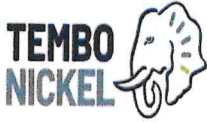
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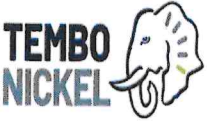
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1. PURPOSE

This procedure defines waste categories produced at TNCL, and the steps necessary to ensure that both hazardous and non-hazardous waste generated from activities, products, and services are responsibly handled, contained, controlled, recycled, and disposed of in the correct manner. This procedure does not include medical waste; it will be covered in Medical Waste Procedure.

2. OBJECTIVE


The objective is to ensure safe transportation, storage, and safe disposal of all potentially hazardous materials, minimise waste generation and maximise recycling and re-use of materials and waste, minimise interference with natural drainage systems and ensuring that waste products are properly managed from generation, handling, storage, transportation, and final disposal.

3. SCOPE

This procedure is applicable to all Tembo Nickel Corporation Limited departments, contractors, and visitors.

It covers all waste materials, such as plastic bottles, drums, metal scraps, cans, wood material, tyres, office waste, food wastes, food and kitchen waste and other general solid waste generated on the mine site. Hazardous materials are covered in detail under Chemicals and Hazardous Materials Management Procedure.

This SOP covers the reuse and recycling of products generated on the mine site and carried out in accordance with the waste management laws of Tanzania so that they do not impose additional environmental hazards.

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4. DEFINITIONS:

TERM	MEANING
Waste	A product or substance which is no longer suitable for its intended use.
Hazardous wastes	<p>Hazardous waste is waste that has substantial or potential threats to public health, safety, or the environment.</p> <p>It is any residue or combination of residues that may be a potential hazard to humans or the environment.</p>
Non-Hazardous Wastes	Any waste that does not causes harm to human or environmental health.

5. RESPONSIBILITIES

5.1: General Manager


The General Manager through the Env Manager is ultimately responsible for the Waste Management at TNCL and thus this waste management procedure.

5.2: Environmental Manager

- a) Responsible for overall ensuring implementation on waste management at TNCL and appoints staff from the environmental team to oversee implementation of this SOP.
- b) Ensuring that the procedure it is communicated, distributed, trained, and followed.

5.3: Environmental Officers


- a) The Environmental Officer assigned duties over the waste yard is responsible for ensuring that this procedure is implemented, which involves managing the waste yard, recording of waste stream and regularly updating records in the Environment database.

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- b) The officer is also responsible updating and enforcing of this SOP. Specific duties to be performed by the Environmental officer are as follows:
- i. Ensure that the waste technicians report for work; and collects logbook for recording of information to the main waste database on the Environment folders.
 - ii. Reports waste – related incidents to the Environmental Manager and file incident report.
 - iii. Liaises with waste recycling contractor for removal of material from the waste site. Ensure all material removed by waste contractor are recorded.
 - iv. Conduct regular inspection of waste management facilities.
- c) Identification of materials as “hazardous” which will have the physical details together with precautions and remedial actions recorded on the hazardous substances record sheet.
- d) Guide, Train and supervise the waste management team.
- e) Source, review and appoint the certified VPO recycler that will be responsible for waste collection at Tembo Nickel.
- f) Contacting an authorised hazardous and non-hazardous waste contractor to collect and dispose of waste to a more responsible manner.
- g) Spot checks be done to ensure all waste are disposed in an approved manner by the authorised contractor.
- h) Keep records of all waste disposed of onsite or offsite by means of recycling.
- i) Ensure recycler submits CoCs (waste tracking documents) from the final waste disposal site.

5.4: Security Manager

- a) Ensuring the waste storage area and landfill is secured all the time.
- b) Ensuring no valuable materials are mixed with waste.
- c) Escort all trucks transporting waste to landfill / Incinerator or off the Project site for recycling or disposal.
- d) Ensure that only allowed waste materials are loaded and transported offsite by the waste recycling contractor.

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- e) Keep records of waste materials recycled offsite.

5.5: Other Departmental Managers/Leads

- a) Ensuring appropriate training is provided in relation to this procedure.
- b) Ensuring that the information contained in this procedure is disseminated.
- c) Ensuring that it is followed.
- d) Ensure that only items identified / confirmed as “scraps” / “wastes” are taken from your respective areas to the waste yard.

5.6: HR Manager:

- a) Ensuring that the contractor responsible for camp cleanliness, including waste collection and removal to the disposal / recycling area comply to all safety and Environmental requirements.
- b) Ensuring the contractor has adequacy resources and PPEs.

5.7: Employees, Contractors, and visitors

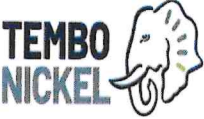
- a) All employees (camp & non-camp residents), contractors and visitors are responsible for correctly picking up litter and disposing it.
- b) All individuals are responsible for adhering to this waste management procedure.

5.8: Waste Attendants

The waste attendants are responsible for following this procedure. The waste attendants are responsible for the day-to-day activities of the waste yard by arranging for storage, keeping records of all waste materials coming at disposal site and report to Environment officer responsible for waste management.

Specific roles of the waste attendants are as follows:

- a) Open the waste yard gate every morning, inspect the area to see that everything is in order and if there are any waste received during the night (Might occur on emergency cases).
- b) Report to the Environment Office any theft incident that occurred during the night.
- c) Keep a logbook for re-use of all waste items taken from the waste yard.

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- d) Ensure no waste material is taken from the waste yard without written approval from Environmental Manager / Officers.
- e) Ensure the general waste area is kept clean and tidy and stack material in orderly manner for waste materials to be visible for easy access and inspections.
- f) Ensure all waste is placed or dumped into their designated areas. Avoid waste mixing.

NOTE: The Waste attendants shall not allow any waste material to be removed from the waste yard without first seeking the Authorisation to remove material from the waste yard and signed by the Environment Manager or person nominated.


6. PROCEDURE

6.1 Equipment

Each refuse station around the site will contain three bins except for the workshop area, which will have four bins. These bins will be provided to accommodate the following wastes:

Table 1.1: Waste bins Colour Codes

Bin Colour	Waste Type	Disposal method
Green	Food and Garden wastes (Biodegradable waste)	Directly to the landfill for disposal or to inert waste disposal area at the waste management facility. Garden wastes to be collected at designated area for compost pit set up.
Blue	Plastics and Glass waste ie; Bottles, Plastic Bags, Containers, disposable spoons, plates, PVC pipes, Rubbers, broken glass.	Collected and stored at Waste management facility ready for recycling.
Yellow	Metallic Waste and E-Waste (Electronic Waste)	Collected and stored at Waste management facility ready for recycling.
Brown	Timber, woods, Cardboards, boxes, papers, and tissues.	Collected and stored at Waste management facility ready for incineration / recycling.
Black	Hazardous Waste (Contaminated Soil, Used Rags, Oil Filters, Used Absorbents, hose pipes, used oil and	Directly incinerated at TNCL Project incinerators. The contaminated soil will be sent to the

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	Grease).	bioremediation pad at the waste management facility and, Used Oil will be collected for disposal/recycling by an authorised recycler.
Red	Medical Waste (Syringes, Blood Contaminated Cottons, Gloves, Human Being Body Parts), Sanitary waste. Pesticides / Herbicides packages.	All medical waste to be collected and disposed at the site incinerator or sent to the authorised incineration facility for incineration.

6.2: Waste classifications

Waste can be classified into two main categories: Hazardous and Non-Hazardous wastes.

Examples:

Hazardous Wastes	Non-Hazardous Wastes
Used grease.	Plastic bottles
Used oil.	Empty drums
Pesticides/herbicides.	Metal scraps
Used waste rags.	Empty Cans
Used aerosol cans (spray paint, bug spray, etc.)	Wood / timber scraps / remains
Empty drums (solvents, degreasers, electrical cleaners, and oil drums).	Used tyres
Used machine/vehicle oil and fuel filters.	Steel balls
Empty containers which contained hazardous material.	Office waste
Fluorescent tubes.	Food and kitchen wastes
Paint and paint containers.	Other general solid waste generated on the site.
Soil contaminated with hydrocarbons / chemicals.	
Empty chemicals containers and empty packaging of hazardous materials.	

A summary of identified waste streams, handling and disposal practices have been summarised in Table 1.2 below.



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Table 1.2: Waste handling practices to be observed:

Substance/Waste	Handling Procedures	Waste Container	Disposal Practice
<p>Waste Grease</p>	<ul style="list-style-type: none"> a) No grease generated in the field may be dumped into open pits, fields, or the open environment. b) Grease generated in the workshop will be recycled by an authorised waste recycler. c) Rags or Paper containing small amounts of grease generated in the field or workshops must be placed in black bin waste containers and sent to onsite incinerators. d) Any grease generated in the field or workshops must be placed in black coloured hydrocarbon waste drums or containers with effective lids and these must be clearly marked with the words “Hydrocarbon contaminated waste”. e) When transporting the containers to the designated area, care must be exercised at all times to prevent pollution or contamination of the environment. f) The design, construction and operation of all equipment and facilities required for the effective collection, containment, controls, and disposal of used grease will at all times comply to the 	<div style="background-color: black; color: white; padding: 10px; text-align: center;"> <p>Black for Hydrocarbon Waste</p> </div>	<ul style="list-style-type: none"> ➤ Only a permitted hazardous waste removal contractor will be permitted to remove the hazardous waste disposal container to a licensed waste disposal site. ➤ Only an appointed recycling contractor may remove drums of used grease.




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	<p>current legislation to prevent the pollution and/or contamination of the environment.</p>	
<p>Used Oil (e.g., Engine oil, Transmission oil, Hydraulic oil, and Diesel)</p>	<p>a) All used oil generated at any point is to be transported/removed to the oil collection point in each respective site. The collection points will consist of a bunded area with adequate storage capacity for all used oil stored at the site. The bunded area must be able to contain at least 110% of the maximum storage volume. The bunded area will be of a high standard, and a related clean-up procedure will be implemented.</p> <p>b) All oil generated from field equipment and drip trays will be decanted into containers and sent to the oil collection point at the site. Under no circumstance may any oil be released directly onto the ground.</p> <p>c) When transporting/removing the containers to the oil collection point, care must be always exercised to prevent pollution or contamination of the environment.</p> <p>d) All wash bay areas where equipment (containing any hydrocarbons) is cleaned must have a dedicated oil separation sump.</p>	<p>➤ Used oil will be stored for the safe collection and disposal by NEMC authorised recycling contractor.</p> <p>➤ Used oil will be disposed in designated tanks at the oil collection points.</p> <p>➤ The tanks will be situated in a bunded area.</p> <p>➤ The persons responsible for the used oil storage areas will ensure that the contractor will visit each site when required to empty the tanks.</p>

Black for Hydrocarbon Waste



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<p>Oil/Greasy Rags (Used rags containing grease and oil, or any other oily substance, which can cause harm to the environment)</p>	<p>e) At wash bay areas, water and oil will be separated via an oil separation sump. This oil will be transported to the oil storage area. Clean water from the oil separation sumps will be reused.</p> <p>f) Responsibility for the camp wash bays will be at camp manager. The design, construction and operation of all equipment and facilities required for the effective collection, containment, control, and disposal of used oils will at all times comply to this procedure.</p>		
	<p>a) All discarded used rags must be placed in black-coloured bins for correct disposal.</p> <p>b) No used rags may be washed or buried.</p> <p>c) No used rags may be disposed of into scrap metal or domestic waste containers.</p> <p>d) Rags must be Incinerated.</p> <p>e) All health and safety aspects are to be considered during the handling and storage of used rags, e.g., PPE and fire hazards.</p>		<p>➤ An authorised waste collector will remove the greasy/oily rags and sent to onsite incinerator.</p>



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<p>Contaminated Soil (Includes soil contaminated with hydrocarbons)</p>	<p>a) If any hydrocarbons (e.g., oil, grease, etc) are spilt on the soil, all the soil containing hydrocarbons must be well stripped, collected and taken to the bioremediation area.</p>	<p style="text-align: center;">Black for Hydrocarbon Waste</p>	<ul style="list-style-type: none"> ➤ The polluted soil will be remediated using media bioremediation (bacteria). ➤ Remediated soil may be used for rehabilitation on drill pads and other any disturbed land, or other rehabilitation works, as it is high in Carbon and Nitrogen. ➤ The Environmental Manager will monitor the bioremediation process. (Bioremediation by macrobacteria)
<p>Used Fuel Filters</p>	<p>a) Fuel filters must be drained first and placed in the black-coloured waste containers. b) Fuel filters are not to be disposed of <ul style="list-style-type: none"> i. into any refuse bins ii. into scrap metal containers iii. into a waste disposal/landfill site c) At all times, care will be taken to eliminate any spills of oil still present in the filters, to prevent</p>	<p style="text-align: center;">Black for Hydrocarbon Waste</p>	<ul style="list-style-type: none"> ➤ An authorised waste collector will remove the fuel filter from a collection and sent to onsite incinerator.



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	<p>any pollution to the environment or contamination of the ground.</p> <p>d) All health, safety and risk aspects must be always considered and adhered to by all employees and contractors. Attention must be given to the risk of fire.</p>	
<p>Degreasers/ Solvents</p>	<p>a) Environmentally friendly degreasers (e.g., SAF-EA HDD) must be used as often as possible to prevent unnecessary harm to the environment.</p> <p>b) All redundant/old degreasers and solvents must be placed in black-coloured bins.</p> <p>c) A suitable cast concrete bounded holding facility must be established to store and contain redundant/old degreasers and solvents. The bounded concrete area must have adequate storage capacity for all redundant/old degreasers and solvents used at the sites. The bounded area must be able to contain at least 110% of the maximum storage volume.</p> <p>d) The design, construction and operation of all equipment and facilities required for the effective collection, containment, control and disposal of redundant/old degreasers and</p>	<p>➤ An authorised and permitted hazardous waste removal contractor must remove all redundant/old degreasers/solvents to a permitted waste disposal site.</p>

Black for Hydrocarbon Waste



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<p>Herbicides / Pesticides (Expired / Obsolete weed killers, insect sprays and the empty containers of such products).</p>	<p>solvents will always comply to the current environmental legislation to prevent pollution and/or contamination of the environment.</p> <p>e) No redundant/old degreasers/solvents may be poured into drains or sewage systems, as this practice will destroy the bio-organisms which are vital for the biodegradation of human excreta at the sewage plant.</p> <p>f) All redundant/old degreasers/solvents must be kept stored separately to prevent:</p> <ul style="list-style-type: none"> i. Chemical reaction ii. Hazardous fumes/gases iii. Pollution of the environment <p>a) All redundant/expired weed killers and insect sprays must be placed in the red hazardous waste bins.</p> <p>b) No redundant/expired weed killers and insect sprays can be poured into any drain or sewage system.</p> <p>c) All redundant / expired weed killers and insect sprays must be stored/kept separately.</p>	<div style="background-color: red; color: white; text-align: center; padding: 5px;">Red for Hazardous Waste</div>	
			<p>➤ Government Chemist Laboratory Authority (GCLA) will be consulted on any disposal of redundant / expired herbicides / pesticides to a disposal site.</p> <p>➤ They should be stored in a manner which will prevent pollution to the environment.</p> <p>➤ All plastic and metal</p>



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			<p>containers which contain pesticides/herbicides must be incinerated.</p> <ul style="list-style-type: none"> ➤ At no time will such containers be sold or sent for recycling. ➤ All Environmental, Health, Safety and Risk aspects must be considered and adhered to by all employees and contractors. ➤ Attention must be given to: <ul style="list-style-type: none"> ○ Safe handling ○ Risk of fire or explosion ○ Correct use of PPE.
<p>Paint and Cleaning Liquids (Includes leftover/expired paint that cannot be used, redundant, thinners, toners, and old paint, cleaning liquids, such as turpentine or</p>	<p>a) No leftover/old paint, liquid cleaner, cleaning rags or empty paint tins may be placed in any recyclable, or other waste bins.</p> <p>b) No items, as above, may be dumped into a pit, buried, or disposed of in any manner that could cause pollution or contamination to the environment.</p>	<p>All leftover, redundant, dried old paint and cleaning materials will only be disposed of by an authorised/permited waste disposal contractor to a permitted hazardous waste</p>	<p>containers which contain pesticides/herbicides must be incinerated.</p> <ul style="list-style-type: none"> ➤ At no time will such containers be sold or sent for recycling. ➤ All Environmental, Health, Safety and Risk aspects must be considered and adhered to by all employees and contractors. ➤ Attention must be given to: <ul style="list-style-type: none"> ○ Safe handling ○ Risk of fire or explosion ○ Correct use of PPE.



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<p>any other brush cleaners, rags, and empty paint containers)</p>	<p>c) Empty paint tins / containers are to be dried before disposal into the red-coloured hazardous waste bins.</p> <p>d) The design and construction of all facilities required for the collection, containment and disposal of paint and liquid cleaners will be of such that paints and liquid cleaners will be always kept separately.</p> <p>e) All facilities will always comply and conform to the current legislation to prevent pollution and/or contamination of the environment.</p> <p>f) All employees and contractors must consider and adhere to all Health, Safety and Risk requirements at all times. Attention must be given to:</p> <ul style="list-style-type: none"> i. The risk of fire ii. Correct ventilation iii. Use of correct PPE. <p>iv) Painters and personnel working with paint to be trained to eliminate waste of paint.</p>	<div style="background-color: red; color: white; padding: 10px; text-align: center;"> Red for Hazardous Waste </div>	<p>disposal site as per GCLA's guidance.</p> <ul style="list-style-type: none"> ➤ A suitable cast concrete bounded holding facility must be established for storing and containing redundant, dried old paint and cleaning liquids. The bounded concrete area must be sealed properly and must have adequate storage capacity for all redundant, old paint and cleaning liquids used at the site. The bounded area must be able to contain at least 110% of the maximum storage volume.
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<p>Acids (Includes Expired / obsolete acids, Battery acid, and other corrosive fluids)</p>	<p>a) All redundant, expired/obsolete, or old acids must be kept/stored in separate containers away from other chemicals and hazardous substances. The containers must be clearly marked “corrosive and poisonous”.</p> <p>b) A suitable cast concrete bounded holding facility must be established for the storage and containment of redundant/old acids. The bounded concrete area must have adequate storage capacity for all redundant/old acids used at the site. The bounded area must be able to contain at least 110% of the maximum storage volume.</p>	<div style="background-color: red; color: white; padding: 10px; width: fit-content; margin: 0 auto;"> Red for Hazardous Waste </div>	<p>➤ Disposal of this kind of waste should adhere to Tanzania's Industrial and Consumer Chemicals (Management and Control) Act, 2003, and GCLA's guidance. It requires application for a permit to dispose of the waste.</p>
<p>Asbestos (Includes some brake pads, and any other asbestos products or products containing asbestos)</p>	<p>a) All asbestos waste will be collected and contained in such a manner that it will not pose health hazards.</p> <p>b) The design, construction and operation of all equipment and facilities required for the effective collection, containment, control, and disposal of waste asbestos products will at all times comply to current legislation to prevent pollution and/or contamination of the environment.</p>	<div style="background-color: red; color: white; padding: 10px; width: fit-content; margin: 0 auto;"> Red for Hazardous Waste </div>	<p>➤ No asbestos material will be disposed of into scrap metal or domestic waste containers.</p> <p>➤ No asbestos materials will be dumped into the landfill site.</p> <p>➤ No asbestos items may be sold or recycled, i.e., asbestos pipes.</p>



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<p>Batteries (Includes scrap automotive batteries, NiCad batteries, torch/flashlight batteries and all other scrap batteries)</p>	<p>c) The design, construction and operation of any storage and disposal facility must be of such a nature to eliminate all possibilities of health hazards.</p> <p>d) All health, safety and risk requirements must be always considered and adhered to by all employees and contractors. Attention must be given to:</p> <ul style="list-style-type: none"> ○ Safe handling ○ Use of proper PPE. 		
	<p>a) Storage facilities for scrap batteries at the waste separation site must be designed and constructed to prevent pollution to the environment in case of accidental leakage, or spillage in the case of automotive batteries.</p> <p>b) Scrap batteries must be stored and kept separate from other chemicals to prevent a possible chemical reaction, chemical fire, hazardous fumes and burns. All health and safety aspects must therefore be taken into consideration during the handling/storing of scrap batteries. PPE to be utilised and properly worn.</p>		<p>➤ Old batteries must be exchanged for new batteries with the supplier where possible.</p> <p>➤ Scrap batteries will not be disposed of at a landfill site, dumped in any open pit areas or dumped in the underground environment.</p> <p>➤ All scrap battery removal contractors must conform to the applicable legislation (Lead Regulations) to prevent</p>



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	<p>c) If batteries are to be stored for a long period of time, the battery acid shall be drained and neutralised prior to disposal or sending back to the supplier.</p>		<p>pollution/contamination of the environment.</p>
<p>Fluorescent Tubes / Lamps (Includes fluorescent tubes, sodium vapor lamps and mercury vapor lamps)</p>	<p>a) All fluorescent tubes/lamps must be kept intact and taken to be disposed of in the hazardous bin designed for this purpose, which shall be situated at the workshop. When full, the bins will be taken to a storage area at Major Camp.</p> <p>b) All health and safety aspects to be considered, such as wearing correct PPE during crushing and handling such containers.</p> <p>c) Emergency treatment must be given in the case of cuts and personal injury.</p>		<p>➤ Florescent tubes will be grinded and locked on concrete block before disposed of by authorised contractor.</p>
<p>Used Aerosol Cans (Includes spray paint cans, furniture polish, and solvents, quick start and other products contained in an aerosol containers)</p>	<p>a) Aerosol cans will be disposed of in red hazardous waste bins.</p> <p>b) No aerosol cans will be disposed in general waste or in a recyclable waste bins.</p> <p>c) All aerosol cans will be punctured prior being incinerated to avoid explosion.</p> <p>d) No aerosol cans are to be left lying around in the field.</p> <p>e) All health, safety and risk requirements must be</p>		<p>➤ All aerosol shall be incinerated in an onsite incinerator (after puncturing the aerosol cans to avoid explosion). And the remains included in scraps for offsite recycling.</p>





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<p>Empty Drums Contained Substances That Hazardous (Includes: empty oil & grease drums, and other drums which contained hazardous substances)</p>	<p>always considered and adhered to by all employees and contractors. Attention must be given to the risk of explosion.</p>		
<p>a) No empty drums having contained hazardous substances may:</p> <ul style="list-style-type: none"> i. Be washed out in the working place where they were used. ii. Be buried/discarded in the field. iii. Be discarded on to any dump. iv. Be kept stored in any manner that can cause pollution to the environment. v. Be used to contain water. <p>b) All empty drums must be securely stored to prevent any damage.</p> <p>c) All health, safety and risk aspects must be taken into consideration such as:</p> <ul style="list-style-type: none"> i. Correct PPE. ii. Emergency 			<p>➤ All empty drums, as mentioned above, must be kept/stored in the designated banded areas, next to the oil stores, or at the salvage store. From where they will be removed for disposal by an authorised/permitted waste removal contractor for the purpose of recycling of oil drums or the disposal of other drums.</p>



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<p>Empty containers and hazardous packages.</p> <p>chemicals and empty materials</p>	<p>No empty chemicals containers may:</p> <ol style="list-style-type: none"> Be washed out in the working place where they were used. Be buried/ discarded in the field. Be discarded on to any dump. Be kept or stored in any manner that can cause pollution to the environment. All empty chemicals containers and empty packaging of hazardous waste must be securely stored to prevent any damage. All health, safety and risks aspects must be taken into consideration such as <ol style="list-style-type: none"> Correct PPE Emergency 		<p>➤ All chemicals used on site will be registered with the Government in accordance with the requirements of the "Industrial and consumer chemicals (Management and control) Act, 2003.</p>
<p>Scrap Metal (Includes: Ferrous Metals, Non-Ferrous Metals, and Metal shavings)</p>	<ol style="list-style-type: none"> All ferrous and non-ferrous scrap metal will be separated and disposed of into green scrap metal bins. Only the designated yellow waste bins will be used for scrap metal. Non-ferrous metal shavings are to be collected into clearly marked scrap metal bins for resale as scrap metal. 		<p>➤ Scrap metal will be sold to contractors for recycling. (The contractor should be authorised by NEMC).</p>



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<p>Plastic Containers (Includes all plastic bottles, containers, which did not contain hazardous substances)</p>	<p>d) The design, construction and operation of all waste bins, containers, and facilities, required for the effective containment, containment control and disposal of scrap metal will at all times comply to current legislation to prevent pollution and/or contamination of the environment.</p> <p>e) All health, safety and risk aspects must be considered.</p>		
<p>Plastic Containers (Includes all plastic bottles, containers, which did not contain hazardous substances)</p>	<p>a) All usable empty plastic containers must be collected at the sites for resale, reuse or donation where needed.</p> <p>b) Empty plastic containers must not be:</p> <ul style="list-style-type: none"> i. Discarded into general waste containers. ii. Buried iii. Burned (incinerated) iv. Destroyed in any manner. <p>c) All containers used in the field must be brought back for correct disposal.</p>	<div style="background-color: #0070C0; color: white; padding: 5px; border: 1px solid black;"> Blue for Plastics, Rubber, PVCs, and Glass waste. </div>	<p>➤ Those empty containers that cannot be reused will be collected by an authorised contractor for proper disposal/recycling.</p>
<p>Salvageable Material</p>	<p>a) All salvageable materials shall be taken to the scrap yard. A dedicated area to be identified at the scrap yard for storage of recyclable</p>		<p>➤ No salvageable materials should be sent for disposal or offsite recycling.</p>



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<p>Rubber Products (Including Tires)</p>	<p>materials.</p> <p>a) Tires are to be stored in a designated site allocated for scrap tires, with accessible firefighting equipment.</p> <p>b) Rubber shall not to be discarded in any refuse or landfill site.</p> <p>c) Rubber shall not to be buried, burned, or dumped into any open pit.</p> <p>d) Consideration must be given to alternate uses of rubber products such as assisting communities, farmers, and nature conservation agencies.</p> <p>e) All safety, health and risk requirements must be considered and adhered to, to prevent:</p> <ol style="list-style-type: none"> i. Fires ii. Injuries/burns/loss of life iii. Damage to company property and community property. 	<p style="text-align: center;">Blue for Plastics, Rubber, PVCs and Glass waste.</p>	<p>➤ Authorised scrap recycling contractor must dispose of or recycle surplus scrap rubber appropriately.</p>
<p>a) All domestic waste will be segregated at the source for recycling and final disposal. Domestic waste will be sorted into the following categories:</p> <ol style="list-style-type: none"> i. Food waste (Green bins) ii. Plastic and glass waste (Blue bins) 		<p style="text-align: center;">Green Food waste and Garden waste</p> <p style="text-align: center;">Blue</p>	<p>➤ Waste that cannot be economically recycled will be disposed of at the TNCL Landfill site or incinerated.</p>




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<p>Kitchen / Residential / Medical Waste (Includes Paper, cans, plastic, bottles, food, garden refuse and waste from houses)</p>	<ul style="list-style-type: none"> iii. Boxes, papers, and tissues waste (Brown bins) b) All medical waste will be stored in Red waste bins. c) All recyclable waste from the kitchen will be disposed in a Blue bins i.e., cans, plastics, bottles. d) Food waste will be taken by authorised employees for animals (pigs) feeding. Environment team will visit the pigs farms from time to time for inspection. e) No kitchen waste may be dumped in any unauthorised landfill site/waste site. f) The design, construction and operation of all equipment and facilities required for the effective collection, containment, controls, and disposal of domestic waste will comply with the current legislation to prevent pollution and/or 	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #0070C0; color: white; padding: 5px;">Plastics, Rubber, PVCs and Glass waste</td> </tr> <tr> <td style="background-color: #C07040; color: white; padding: 5px;">Brown Timber, woods, Cardboards, boxes, papers and tissues</td> </tr> <tr> <td style="background-color: #D9534F; color: white; padding: 5px;">Red: Hazardous waste i.e. Lab waste, paints waste, medical waste, Sanitary waste and chemical waste</td> </tr> </table>	Plastics, Rubber, PVCs and Glass waste	Brown Timber, woods, Cardboards, boxes, papers and tissues	Red: Hazardous waste i.e. Lab waste, paints waste, medical waste, Sanitary waste and chemical waste
Plastics, Rubber, PVCs and Glass waste					
Brown Timber, woods, Cardboards, boxes, papers and tissues					
Red: Hazardous waste i.e. Lab waste, paints waste, medical waste, Sanitary waste and chemical waste					




<p style="text-align: center;">STANDARD OPERATING PROCEDURE</p> <p style="text-align: center;">INTEGRATED WASTE MANAGEMENT PROCEDURE</p>	Document ID:	TNCL-ENV-SOP-0002
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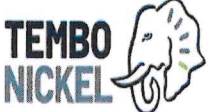
<p>Office Waste (Includes: used stationery, plastics, cans, toners, printer cartridges, food, cardboard, and tissues from offices. Used office paper i.e., should be shredded before disposal)</p>	<p>contamination of the environment.</p> <p>g) All health, safety and risk requirements must be always considered and adhered to by all employees and contractors.</p> <p>a) All office waste is to be sorted at the sources and stored in the following bins:</p> <ul style="list-style-type: none"> i. Food waste (Green bins) ii. Plastic and glass waste (Blue bins) iii. Boxes, papers, and tissues waste (Brown bins) 	<p>Waste will be removed to the orange general waste bins, to be disposed of by the waste-handling contractor.</p> <ul style="list-style-type: none"> ➤ The used paper will be shredded and placed into a combustible waste/General Waste bin. ➤ A recycling company will recycle office paper. 			
<p>E-Waste (including discarded refrigerators, Freezers, air</p>	<p>Collection: a) Ensure that the collection of e-waste from</p>	<table border="1"> <tr> <td style="background-color: #28a745; color: white; text-align: center;"> Green Food waste and Garden waste </td> </tr> <tr> <td style="background-color: #17a2b8; color: white; text-align: center;"> Blue Plastics, Rubber, PVCs, and Glass waste </td> </tr> <tr> <td style="background-color: #c39d3b; color: white; text-align: center;"> Brown Timber, woods, Cardboards, boxes, papers and tissues </td> </tr> </table>	Green Food waste and Garden waste	Blue Plastics, Rubber, PVCs, and Glass waste	Brown Timber, woods, Cardboards, boxes, papers and tissues
Green Food waste and Garden waste					
Blue Plastics, Rubber, PVCs, and Glass waste					
Brown Timber, woods, Cardboards, boxes, papers and tissues					
<p>refrigerators, Freezers, air</p>	<p>Authorised contractor must dispose of or</p>	<p>removal</p>			

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<p>conditioners, televisions, monitors, laptops, washing machine, mobile phones, and printers)</p>	<p>generation is conducted in a manner that shall not cause:</p> <ul style="list-style-type: none"> i. Scattering of e-waste. ii. Provide adequate protective and safety gears to personnel involved in handling e-waste. iii. Provide basic training and information to personnel involved in the collection and handling of the e-waste at the e-waste transfer station. <p>Storage:</p> <ul style="list-style-type: none"> a) Ensure that e-waste is stored properly and not exposed direct to sunlight, rain, and wind. b) A container where E-waste is to be stored must meet international requirements approved by the council. c) A container that stores e-waste should be not reactive with e-waste. d) A container that stores e- waste must be capable of protecting human health and the environment. <p>Sorting:</p> <ul style="list-style-type: none"> ➤ Ensure that e-waste is sorted in a manner that 	<p>A special container for all E- wastes</p>	<p>reuse/recycle E- waste as per (Electrical and electronic equipment waste regulations, 2021)</p>
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	<p>segregates the components of the equipment in such categories which can easily be collected, dismantled, disposed, recycled, or stored.</p> <p>Dismantling:</p> <ul style="list-style-type: none"> ➤ Ensures that minimal number of hazardous materials are emitted to the environment. ➤ Dismantling involves segregating these components into recyclable pieces that can be reused. <p>Recycling:</p> <ul style="list-style-type: none"> ➤ All e-waste discarded on site shall undergo proper collection, storage, sorting, dismantling, mechanical separation and recovery. Only the authorised recycler will be allowed to remove E-waste for offsite recycling.

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7. HOUSEKEEPING

Due to the nature of waste material received at the yard it is a high priority to keep the place neat and tidy. This involves placing all waste in designated areas, proper stacking of material and keeping grass short.

8. RECORDS

- a) Waste generated or removed from the site for reuse shall be weighed and/or recorded on quantities and volumes retained by the Environmental Department.
- b) Recycler shall submit Chain of Custody (CoC) documents on monthly basis.

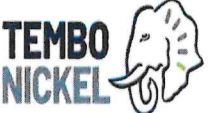
9. GATE PASS

Camp administrator and Environmental Manager / Designated personnel will issue gate pass and sign to allow waste to be sent off for recycling as detailed in Scrap Removal Permit. Only items listed on the Gate Pass are authorised for removal offsite and will be recorded in waste inventory. A copy of the Gate Pass showing the amount of waste taken shall be filed in waste record file in the Environmental Department.

10. REMOVAL OF AUTHORISED WASTE

The process of waste removal from the camp to the major camp for storage or disposal is explained below:

- Waste management team will inform the environmental department and security the intention of waste removal to major camp.
- Security will inspect the waste bins and be available during the loading of the waste bins and sign waste control form to confirm all collected is waste and no valuable items are mixed with waste.
- The waste-filled truck will be escorted by security to the major area / waste management facility.
- Only waste control forms that the environmental department signs will be allowed at major camp / waste management facility, this is to control unwanted waste to the wrong stream i.e.: oil rugs ending up to the landfill.

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11. REMOVAL OF UNAUTHORISED SCRAP MATERIALS


The Security Department shall investigate the removal of unauthorised material offsite and disciplinary procedure will be followed against the person involved.

12. WASTE HIERARCHY



13. WASTE BINS COLOUR CODING:

Proposed Waste Bins Colour Codes for TNCL	
Bin colour	Type of Waste
Green	Food waste and Garden waste
Blue	Plastics and Glass waste ie; Bottles, Bags, Containers, PVC Pipes, Rubbers
Yellow	Metallic waste and E- waste (Electronic Waste)
Brown	Timber, woods, Cardboards, boxes, papers, and tissues
Black	Hydrocarbon contaminated waste ie; oil rags, oil filters, absorbents, hose pipes
Red	Hazardous waste ie; Lab waste, medical waste, Sanitary waste, and Chemical waste

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14. REVIEW

This procedure will be reviewed and updated whenever changes to the Environmental Policy, Practices, Significant Environmental Risks, Objective and Targets, or procedures made that may affect it. In addition, this document will be reviewed for adequacy and appropriateness at least once in two years and updated as necessary. All modifications will be reviewed with affected personnel, and controlled copies of this document will be updated.

15. SYSTEM EVALUATION

This procedure shall be reviewed at least after two years by members of Environmental Department and presented to the Standard Committee for approval, or when organizational changes take place or required as part of internal and external audits. The TNCL Document Controller will monitor compliance with the document control system on an ongoing basis.

16. DISTRIBUTION

List physical locations which require a controlled copy of this document.

Copy	Controlled Document Folder Location
Master	Controlled Documents Central Filing System

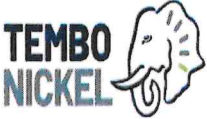
17. CONTRAVENTION

Any breach of this procedure shall be regarded as refusal/failure to carry out a lawful instruction and will be dealt with as per the disciplinary procedure.

18. DOCUMENT CHANGE PROCESS

The process of document change starts when the document custodian identifies there is need to make changes within the document. The document custodian/ owner shall complete the document change request form, sign it off and submit it to the Document Controller.

The Document controller shall issue the controlled word copy of the document to the respective document custodian/owner so that changes may be made. The document custodian/owner shall resubmit the updated document to the document controller so that the document can be controlled and updated within the Filing system ready for use by the end users.

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18.1: Reason for Change

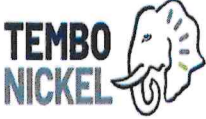
A	As a result of incidents	F	Change in training requirements
B	As a result of the audit findings	G	Results of risk assessments
C	New / changes in governance documents	H	Change due to spelling or grammatical error
D	Changes in legislation	I	New document format
E	Changes in technology	J	To integrate special instruction into the document control system

18.2: History of Change

Date of Change	Revision No	Revised Item (paragraph Number reference if required)	Reason Code	Name of Re-viewer

19. RECORD CONTROL

Document Title:	Document ID:	Responsible for Maintenance:	Responsible for Filing:	Location of Storage:	Retention Period:	Method of Disposal:
Integrated Waste Management Procedure	TNCL-ENV-SOP-0002	Document Controller	Document Controller	OHS Department	Hard Copy two Years	Hard copy shared file electronic

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20. DECLARATION

I hereby declare that I have taken part in the discussion of this procedure, and I understand its contents and do commit that I shall ensure compliance hereto:

	Name and Surname	Company Number	Designation / Role	Signature	Date Signed
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