

CLIENT: GOVERNMENT OF REPUBLIC OF KIRIBATI

PROJECT: KIRIBATI ROAD REHABILITATION
PROJECT

LOCATION: TARAWA, KIRIBATI

PROJECT NO.: 2536

Environmental Protection Instruction

STORAGE & HANDLING OF HAZARDOUS SUBSTANCES

Document number **025 – Y008 - 2536**

Revision History

Rev	Date	Details	By	Approved
A	8. FEB 2014	Draft as PEP Attachment	TS	
0	9 Apr 14	Revised & issued	ML	

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Based on IMS Template Document # J012-010-100 Rev0 8Apr2010



1.0 OBJECTIVES

To manage the storage and use of hazardous substances so as to prevent contamination of the soil and water or drains on and in the vicinity of the works.

The purpose of this procedure is to set out the systems required to remove hazardous material away from Republic of Kiribati.

2.0 TARGETS

- No contamination of the soil waters or drains on and in the vicinity of the works.

3.0 DEFINITIONS

MSDS – Material Safety Data Sheets

EPA – Environmental Protection Authority

4.0 RESPONSIBILITIES

The Project Environmental Management Representative is to inspect storage facilities adjoining waterways, dams and drains and work practices and report non-conformances.

5.0 LEGISLATIVE INFORMATION/REFERENCES

5.1 KIRIBATI GOVERNMENTS ENVIRONMENT ACT 1999

5.2 ENVIRONMENT LICENSE NO. ELA036/10

Refer to EL Clause 15, 16, 17, 25 and 26

6.0 CONTROL METHODS

6.1 GENERAL

- Material Safety Data Sheets (MSDS) to be readily available and accessible for all hazardous substances used on site. Where particularly dangerous substances are used or stored, the MSDS must be displayed at the storage area. Workers are to be made aware of the types, usage and storage requirements of hazardous substances found on site.
- Incoming Hazardous Substance/ Dangerous Goods Assessment Document number: - 020 – F085- 100
- Hazardous Substance Register: Document # 020 – F028 - 100
- Hazchem signs to be displayed as necessary.
- The control, usage, transportation and storage of hazardous substances must be in accordance to manufacturers' instructions and any license requirements.
- Hazardous substances to be stored neatly in a secure container.

- Segregation requirements of hazardous substances to be complied with.
- All containers, carrying hazardous substances, to be clearly and correctly labelled.
- Storage areas for fuel and other hazardous substances to be placed away from watercourses, drains whenever possible.
- Storage areas for fuel and other hazardous substances to be banded to prevent discharge in the event of a spillage.
- As necessary bund areas where motors are placed to prevent discharge of fuel or oil into any nearby water facility (e.g. a pump placed next to a dam).
- Construct pollution traps as necessary at entrances into stormwater drains (i.e. grated drains, site entry pits etc.).
- Carry out works involving use of large quantities of hazardous substances (e.g. spray sealing) only when rain is not anticipated in the immediate future.
- Spillage response kits to be ready and accessible at all times and monitored for replenishment of contents sufficient to clean up spillages and prevent discharge to watercourses dams and drains.
- Superintendent to be notified of spillage of hazardous substances where a potential of environmental harm/impact can occur.
- Trucks or vehicles carrying hazardous substances to be appropriately licensed, signed and to carry the required shipping and emergency response documentation.

6.2 OFFSITE DISPOSAL

Materials that are not environmentally suitable to be discharge at local tip site, shall be disposed in accordance with Manufactures/ Suppliers specification. Material such as:

1. Lubricants/ Oils form workshop and asphalt plant operations
2. Dust Bags – Baghouse Consumables
3. Waste Fuels (Diesel/ Kerosene/ Chemicals)
4. Left over Bituminous Binder / Emulsions
5. Adhesion Agents
6. Empty Aerosol Cans
7. Used absorbent bunds – spills
8. Batteries/ Acids
9. Lab Chemicals – e.g. Tri ethyl chlorine

All storage containers shall contain a register on qty, material type so this can be tracked and given to HSE Adviser for approval for tracking and monitoring purposes.

Supervisors for both Asphalt Plant Yard and Plant Yard in Betio are responsible for accurate upkeep of the register.

6.3 LOCATION OF STORAGE FACILITIES DURING CONSTRUCTION

HSE Advisor to authorize and setout instructions Dangerous Goods Storage layout in both sites.

Betio - McConnell Dowell Constructors Ltd Plant Yard,

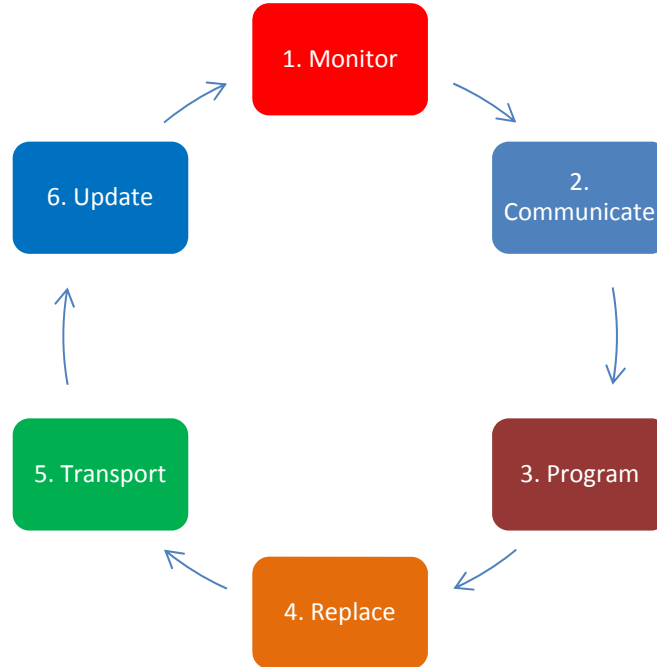
- Capacity 2 x 20 ft Containers – capacity to take Items 1, 6, 7 and 9 only

Temaiku – Airport Rd, Asphalt Plant Yard

- Earmarked for 7 x 20ft Containers. Capacity to take 1 – 9

6.4 PROCESS FOR COLLECTION

To avoid stockpiling accumulating in both locations the following process is to insure appropriate process are in place and materials are handled correctly.



Above: Cycle to monitor and process waste/solids materials:

Steps	Who is responsible?	When?	How?	Next step
Monitor	Plant Yard Supervisor – Temaiku Plant Yard - Betio Auditor/ PE/SE HSE Officer	Weekly checks on register on qty stored in container	-Weekly inspection checklist Supervisor - Register of each container	Is it near capacity? No – monitor Yes – Communicate to HSE/ Superintendent
Communicate	Above to Superintendent	Immediately Start Lock out procedure – stop further storage capacity	- Lockout procedure	Confirmed? NO – Yes – notify, lock out and Isolate away from site Action: Superintendent
Program	1. HSE Advisor to NZ 2. Superintendent to Supervisor transport to port side	Receive of notification	Request for offsite removal to Plant Yard NZ PO Number Request	Confirmed? No – Yes – Replace spare container Action: Superintendent

<i>Replace</i>	<i>Superintendent</i>	<i>Request received</i>	<i>Request form</i>	<i>Yes – Transport spare to site where it required Betio/ Temaiku</i>
<i>Transport</i>	<i>Superintendent</i>	<i>Monthly</i>	<i>Side lifter, Transporter, Barge</i>	<i>Confirmed? New Container received used as standby, Earmarked container returned to NZ or place of agreed disposal</i>
<i>Update</i>	<i>HSE Advisor/ NZ Plant Yard</i>	<i>Fortnightly</i>	<i>Register</i>	<i>Update records in the system – containers sent, containers in stock – update project records</i>

6.5 PERMITS FOR CONTAINERS (DANGEROUS GOODS)

All relevant documents for Dangerous Goods exports are to be arranged through HSE Advisor, this will be sent to NZ receiving for details on in coming cargo and approval before shipment is arranged.

7.0 MONITORING

- Weekly inspection of storage facilities.
- Observation of the location and bunding of pumps, refuelling locations storage areas etc.
- Observation of pollution controls in drains and watercourses.

8.0 EMERGENCY RESPONSE

- In accordance with emergency procedures in the Project Execution Plan to contain any spill and prevent substances entering water courses, dams and drains.
- If the failure does not involve an environment threatening spillage review the control measures and amend as necessary.
- Identify the contaminant and ensure current removal and disposal as per legislative requirements.
- If the failure involves an environmental threatening spillage immediately notify the Superintendent and the EPA.

9.0 RECORDS

- Weekly inspections
- Stocktake of material held in both Betio/ Temeku
- Planned cycle of waste material disposal

Document No. 020 – F085 – 100

Document No. 020 F028 - 100