

P-13 Hazardous Material Management Plan

Aim and Objective				
<p>The purpose of P-13 Hazardous Materials Management Plan (HMMP) is to address the environmental, health and safety risks associated with the use, storage, and disposal of hazardous materials by the Project during the construction phase. This includes solid and liquid material and is applicable to all Project facilities and staff including THL, HEC and subcontractors. The plan applies the waste minimisation hierarchy (avoid, reduce, reuse, recycle, recover, dispose) to addresses the generation and management of wastes.</p> <p>The definition of hazardous material used for the purposes of this management plan complies with the Basel Convention and associated amendments (effective from 01 January 2021). The Solomon Islands is the 190th party to the Basel Convention, with entry into force on 23 November 2022.</p>				
Summary of Impacts and Risks				
<p>If incorrectly used, stored or managed hazardous materials have the potential to leak, catch fire, leach into water and soil, and generate odour resulting in harm to workers, the community, and/or pollution of the environment.</p> <p>The storage and disposal of non-hazardous waste is addressed in P-12 Waste Management Point Source Pollution Plan (WMPSPP). The storage and/or disposal of aggregate, topsoil, spoil, and related bulk materials is addressed in C-5 Quarry Management Plan (QMP) and C-9 Spoil and Topsoil Management Plan (STMP). The storage and use of hazardous materials will comply with the IFC General Environmental Health and Safety Guidelines for Hazardous Materials Management.</p>				
Mitigation and Management Actions				
#	Issue or Risk	Action	Timing / Frequency	Responsibility
P-13-1.	Storage and handling of hazardous materials	<ul style="list-style-type: none"> • An inventory of all hazardous materials to be used and stored on site is provided in Annex P-13-I with Material Safety Datasheets (MSDS) demonstrating the safety precautions to be used for each substance available in Annex P-13-II. The volume of all hazardous materials will be recorded upon inward receipt, with each material tracked in terms of quantity stored, quantity used or generated, and quantity disposed of. • Hazardous materials will be stored in the following nominated areas: <ul style="list-style-type: none"> - Workers Accommodation Camp (WAC): <ul style="list-style-type: none"> o Bulk diesel storage (30,000 litres): above ground fuel storage tank (existing) o Hazardous waste store: including waste oil, medical waste etc. - Site Office: <ul style="list-style-type: none"> o Bulk diesel storage (30,000 litres): above ground fuel storage tank. o QC Laboratory in a hazardous materials storage cabinet. o Concrete Batch Plant o Crusher Plant - Dam site: <ul style="list-style-type: none"> o Bulk diesel storage (30,000 litres): above ground fuel storage tank. o Concrete Batch Plant - Powerhouse: <ul style="list-style-type: none"> o Service Bay - Explosives Store: Specialist bunded facility for storage of all explosives required for blasting on site. Total amount for construction is: <ul style="list-style-type: none"> o Explosive (NewMITE Plus): [100,000] KGEA o Electric detonator (HiDETO Plus): [2,100] EA o Nonelectric detonator (HiNEL Plus MS): [36,600] EA o Nonelectric detonator (HiNEL Plus SDD): [9,100] EA • Each hazardous material storage areas must have: <ul style="list-style-type: none"> - A site-specific design, approved by THL, showing the site controls. - For material other than hydrocarbons – be sited at least 20 m from any streams, drainage lines and surface water bodies. - For hydrocarbons – be at least 100 m from any waterbody or wetland and be kept cool if required on hot days. - Be set back from the main vehicle access routes to prevent damage from collision. - Store flammable products separately in dedicated areas with adequate ventilation at all times. - Physically separate chemicals that react when combined, causing explosions, fire, or the emission of dangerous gases. - Provide cover and protection from vermin, rain and floodwaters. - Be located on hardstand draining into an oil/water separator. - Have a spill kit appropriate for the largest container. - Have eye and hand washing facilities in case of chemical exposure. - For liquids, appropriate secondary containment structure(s) capable of containing the larger of 110% of the largest tank or 25% of the combined tank volumes. Secondary containment design should also consider means to prevent contact between incompatible materials in the event of a release. All ancillary refuelling equipment (e.g., valves, hoses) shall be contained securely within the bund when not in use. - Clearly identified with warning signs at the entrance to each area including "No Smoking" and "No Hot Work" signage. • Regular maintenance of storage facilities will be undertaken to ensure that storage units, tanks, treatment plants, pipes, and other components (seals, connectors and valves) are maintained in a condition free of corrosion, rust and cracks. • Damaged tanks or containers and its contents will be removed as soon as it is safe to do so. The tank will either be replaced or repaired to a satisfactory condition. If the tank needs to be dismantled and disposed of, appropriate treatment will be carried out before the tank components are disposed of at the Ranadi Landfill. • Fuel storage tanks and bowsers are self bunded and suitable for storage, handling and refuelling purposes, compliant with international standards (e.g. AS1940, AS1692, AS1657, UL142). 	Throughout construction	HEC HSE Manager THL (review)

P-13-2.	Transport of hazardous materials	<ul style="list-style-type: none"> Transportation of explosives will be undertaken in accordance with Part VI of the Explosives Act and in accordance with the Explosive Transportation Procedure (Annex P-13-IV). The volumes of hazardous materials transported will be limited at any one time to reduce potential impacts from accidental rupture or leaks. Vehicles used will be authorised to carry the load and hazard rating in question. 	Throughout construction	HEC HSE Manager
P-13-3.	Storage of explosives	<ul style="list-style-type: none"> Storage and use will be in accordance with the licences issued by the Royal Solomon Islands Police Force (Annex P-13-V) and C-11 Drill and Blast Management Plan. Storage of explosives above these limits is prohibited. 	Throughout construction	HEC HSE Manager
P-13-4.	Medical facilities and waste	<ul style="list-style-type: none"> Sharps containers will be provided in the clinic. Medical waste from the site clinic will be transported to the WAC for storage as hazardous waste, or for incineration at the Ranadi Landfill, if suitable facilities exist. 	Throughout construction	HEC HSE Manager
P-13-5.	Hydrocarbons including diesel, oil and lubricants	<ul style="list-style-type: none"> Vehicle and machinery workshops and maintenance areas will have impermeable flooring and a sump that drains to an oil/water separator to collect any leaks and washdown water. All refuelling of plant and machinery (apart from field refuelling that cannot be avoided), and/or refilling/decanting of hazardous materials will occur in locations designated in this plan Any refuelling of machinery and equipment required in the field, away from a refuelling hardstand, will be undertaken using a suitably equipped service vehicle with appropriate spill prevention and containment. All construction plant and machinery (e.g. trucks, excavators, bulldozers, generators) will be maintained in good working order to prevent the leakage of contaminants. Spill kits will be provided at each hazardous material storage area and in each refuelling service vehicle. The Project is expected to generate approximately 400 litres of waste oil and 500 litres of lubricant per year that must be disposed of in a manner that is consistent with regulatory requirements and are protective of the environment and human health. A comprehensive approach to waste oil management has been developed and will be implemented as per Annex P-13-III Waste Oil Management Procedure. 	Throughout construction	HEC HSE Manager
P-13-6.	Spill prevention and response	<ul style="list-style-type: none"> Responses to emergencies and spills is to be undertaken in accordance with P-14 Spill Prevention and Emergency Response Plan. 	Throughout construction	HEC HSE Manager

Monitoring Requirements

#	Title	Description	Target / Performance Indicator	Timing / Frequency	Responsibility
P-13-A.	Safe storage of hazardous materials	<p>The following shall be available for each hazardous material storage facility:</p> <ul style="list-style-type: none"> Approved design for each storage area (existing or proposed) with appropriate bunding, ventilation etc. List of hazardous materials stored with MSDS available and clearly visible Spill kit(s) Eye and face washing facilities 	<p>Documentation on file</p> <p>MSDS clearly visible</p> <p>Spill kits and washing facilities present</p>	<p>Prior to construction of each storage facility</p> <p>Weekly check of hazardous material storage areas</p>	HEC Construction Manager
P-13-B.	Use, transport and disposal of hazardous materials	<p>The volume of hazardous materials imported and exported:</p> <ul style="list-style-type: none"> Monthly volume of hazardous material purchased; Monthly volume of hazardous material used; Monthly volume of hazardous material disposed* on site; and Monthly volume of hazardous material disposed offsite Occurrence of any accidents or spills causing the loss of in excess of 5 litres. <p>The volume of hazardous waste to be generated during the construction phase is to be recorded and monitored in accordance with P-12 Waste Management Point Source Pollution Plan.</p> <p>*No hazardous chemicals shall be disposed of (i.e. dumped) on site apart from permanent storage within a hazardous chemical store, in the case of inability to recycle or dispose of the material within the Solomon Islands due to lack of facilities.</p>	<p>Waste volumes recorded</p> <p>No significant spills of hazardous materials recorded</p> <p>No unauthorised disposal of waste</p>	<p>Monthly records</p> <p>Reported in HEC quarterly E&S reports</p>	HEC HSE Manager
P-13-C.	Training records	<p>'Waste and Hazardous Substance Management' induction training and annual refreshers will be conducted as per P-1 CESMP. Training will include the handling, storage and transport of hazardous substances, and the principals of waste minimisation, segregation, storage and disposal.</p>	Training records kept	Training records reported in HEC quarterly E&S reports	HEC Training Supervisor

Supporting Documents

Annex	Name	Description
P-13-I.	Inventory of Hazardous Material	Current list of hazardous materials currently present on site.
P-13-II.	MSDS	Material Safety Datasheets for all hazardous chemicals and materials stored or used on the Project, as per Annex P-13-I.
P-13-III.	Waste Oil Management Procedure	Comprehensive approach to the management of waste oil and lubricants
P-13-IV.	Explosive Transportation Procedure	Procedure detailing the process, documentation and responsibility for the transport of explosives and detonators.
P-13-V.	Explosives Regulations Licences	Dealers licence for the import and use of explosives, and Licence for a dealers explosive magazine,

ANNEX P-13-I INVENTORY OF HAZARDOUS MATERIAL



Hazardous Materials and Substances	Project Activities	Handling Site	Usage Quantity	Storage Area	Amount of Chemicals Stored	Risk	Treatment to be implemented	MSDS
Solvent	Painting (temporary structures)	Workshop	40 Litre	Dangerous materials storage facilities in the camp site	20 Litre	Hazardous to human health	It will be completely consumed during the project	Attachment #1
Cement	General project activities	Batch plant	72,000 tonne	Batch plant	50 tonne	Water pollution	It will be completely consumed during the project	Not yet approved
Glue	Temporary structures in construction	Workers accommodation camp	20 Litre	Dangerous materials storage facilities in the camp site	20 Litre	Hazardous to human health	It will be completely consumed during the project	Attachment #2
Bitumen	Waterproofing	Septic tanks in the camp site	100 Litre	Dangerous materials storage facilities in the camp site	100 Litre	Soil and water pollution	It will be completely consumed during the project	Attachment #3
Epoxy	Waterproofing	Septic tanks in the camp site	100 Litre	Dangerous materials storage facilities in the camp site	100 Litre	Hazardous to human health	It will be completely consumed during the project	Attachment #1
Engine oil;	General (used in vehicles and equipment)	Entire TRHDP site	10,000 Litre	In the maintenance shop (located in the workers camp)	50ea * 20 Litre	Soil pollution	It will be collected by contractor(s)	Attachment #4
Kitchen oil	Cook	Canteen in the camp site	15 Litre	In the canteen	50ea * 15 Litre	Spill and Drainage water contamination	1. Grease trap	Attachment #5
Turbine bearing oil(ISO VG46)	Turbine and generator bearing	Powerhouse after installation works	3,000 Litre(approximately)	Warehouse in the camp site	3,000 Litre(approximately) + 400 Litre. The oil shall be stored in 200L Drums	Spill and Drainage water contamination	1. Filling of the oil using pump only. 2. Oil drained to the drainage pit shall be treated with oil water separator installed in drainage space	Attachment #6
Transformer oil(Mineral oil)	Transformer	Switch Yard	30,000 Litre(approximately)	Warehouse in the camp site	30,000 Litre(approximately) + 1,000L(approx.) spare	Spill and Drainage water contamination	1. Filling by using pump and dehydration unit. 2. Oil shall be contained in oil drainage pit.	Attachment #7
Compressor and vacuum pump oil	Compressor and vacuum pump	Powerhouse	20 Litre	Warehouse in the camp site	40 Litre	Spill	1. to be filled by experienced person following manufacturer's procedure.	Attachment #8
Grease(All purpose Grease AP3)	Vehicle repair, powerhouse equipment installation works	Camp,Dam and Powerhouse site	40kg	Warehouse in the camp site	40kg+spare	skin irritation Soil and water pollution	Use PPE(rubber gloves) during use and handling working on concrete pad	Attachment #9
Used/spent/expired solvents, resins and painting materials;	N/A	N/A	N/A	N/A	N/A	Soil pollution	It will be completely consumed during the project; and the container will be collected by contractor(s)	Attachment #10
Medical Waste;	General project activities	Clinic	N/A	N/A	N/A	Hazardous to human health	It will be collected by contractor(s)	Not yet used
Waste water from equipment/concrete washing bay;	General project activities	Batch plant area	N/A	N/A	N/A	Water pollution	Chemical treatment (and monitor water quality)	Not available
Diesel;	General (used in vehicles and equipment)	Entire operation site	5,000 Litre per day in average, 14 months	Oil tank in the camp site	Tank 30,000 Litre	Soil pollution; water pollution; and hazardous to human health	It will be collected by contractor(s)	Attachment #11
Petrol;	General (used in vehicles and equipment)	Entire TRHDP site	5,000 Litre per day in average, 14 months	Oil tank in the camp site	Tank 30,000 Litre	Hazardous to human health	It will be collected by contractor(s)	Attachment #12
Filters containing hazardous chemicals/oil;	General project activities Electromechanical and hydromechanical activities	Camp,Dam and Powerhouse site	1 filter set for one equipment, for 3 months(approximate average)	Genset, Diesel, Oil storage Tank and Vehicle	1 set spare each equipment.	Soil pollution	TBD	Attachment #13

HED Lamp	General project activities	Temporary buildings	N/A	Dangerous materials storage facilities in the camp site	N/A	Soil pollution; water pollution; and hazardous to human health	It will be collected by contractor(s)	Attachment #14
Bottles with refrigerant gas use for AC refilling;	General project activities	Temporary buildings	N/A	Dangerous materials storage facilities in the camp site	N/A	Air pollution	It will be collected by contractor(s)	Attachment #15
Sparay Paint	General project activities	Entire TRHDP site		Dangerous materials storage facilities in the camp site				Attachment #16
Batteries contain mercury/lead/Nickel/Cadmium.	General (used in vehicles and equipment)	Entire TRHDP site	N/A	Dangerous materials storage facilities in the camp site	N/A	Soil pollution; water pollution; and hazardous to human health	It will be collected by contractor(s)	Attachment #17



ANNEX P-13-II MSDS

(REFER SEPARATE FILE)

ANNEX P-13-III WASTE OIL MANAGEMENT PROCEDURE

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ANNEX C. WASTE OIL MANAGEMENT PROCEDURE

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1.1. PURPOSE

This waste oil³ management procedure has been prepared to ensure that effective waste oil management activities are implemented during the entire construction phase for the TRHDP. Implementation of this procedure will result in compliance with Solomon Island regulations, international industry good practices (IIGP)⁴, THL's and its EPC Contractor - HEC's E&S Policies and requirements that its sub-contractors will also commit to comply with.

The construction activities of the project are expected to generate both waste oil and lubricant (i.e., approximately 400 litres and 500 litres per month, respectively) that must be disposed of in a manner that is consistent with regulatory requirements and are protective of the environment and human health. A comprehensive approach to waste oil management has been developed and will be implemented. Recognising the need for a circular economy approach, this procedure captures:

- Apply waste recycling, recovery and reuse principle as much as possible; and
- Waste will be stored, collected, transported and treated properly by licensed waste treatment vendors/facilities.

This procedure will be applied to all Project's personnel and sub-contractors working at the Project's site during all stages of the construction phase.



1.2. ROLE AND RESPONSIBILITY

This section will provide a detailed organizational structure of HEC's and other parties (e.g., sub-contractors and vendors) key personnel specifically with regards to onsite

³ Defined by US EPA as *any oil that has been refined from crude oil or any synthetic oil that has been used and as a result of such use is contaminated by physical or chemical impurities such as dirt, metal scrapings, water, or chemicals and no longer performs well*. Available at: <https://www.epa.gov/hw/managing-used-oil-answers-frequent-questions-businesses>



⁴ Such as:

- The World Bank Group (WBG) General EHS Guidelines (2007): <https://www.ifc.org/wps/wcm/connect/29f5137d-6e17-4660-b1f9-02bf561935e5/Final%2B-%2BGeneral%2BEHS%2BGuidelines.pdf?MOD=AJPERES&CVID=iJOWim3p>
- The WBG EHS Guidelines for Waste Management Facilities (2007): <https://www.ifc.org/wps/wcm/connect/5b05bf0e-1726-42b1-b7c9-33c7b46dda8/Final%2B-%2BWaste%2BManagement%2BFacilities.pdf?MOD=AJPERES&CVID=iqeDbH3&id=1323162538174>

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management of waste oil. It is noted that the roles and responsibilities of key personnel of HEC's and other parties are parts of a larger HMMP's organizational structure as detailed in **Section 2.3**.

- The site HEC's HSE Manager has the main roles and responsibilities to:
 - ensure that all personnel including sub-contractors and vendors are adequately trained, informed and followed on the requirements of waste oil management under the overall HMMP;
 - plan and take part in audit on sub-contractor E&S performance as well as vendor's waste oil handling;
 - advise on control measures & PPE required to be implemented for all aspects of waste oil management; and
 - investigate, compile and submit reports on HSE incidents related to waste oil management to HEC's Project Site Manager.
- The site HEC's E&S Supervisor has the main roles and responsibilities to:
 - ensure that staff and sub-contractor follow the correct procedures for handling waste oil;
 - undertake field inspections to monitor relevant environmental aspects and performance of sub-contractors and vendors, including waste oil management on a fortnightly basis;
 - report any issues regarding waste oil management directly to the HEC's HSE Manager on a daily basis;
 - monitor and maintain records (i.e. manifests) of waste oil generated, stored, and transferred to hazardous waste collection, transport and treatment vendors; and
 - support to update the HMMP, if required.
- The HEC's H&S Emergency Supervisor has the main roles and responsibilities to:
 - manage the Emergency Response Procedure and collaborate in the maintenance of the Spill Prevention and Emergency Response Plan;
 - coordinate and respond to emergencies, including those related to waste oil, in a timely manner;
 - schedule and coordinate drill and emergency, including waste oil spill;
 - collaborate with HEC E&S Supervisor to investigate, compile and submit reports on HSE incidents related to waste oil management to HEC's HSE Manager.
- Sub-contractors have the main roles and responsibilities to:

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- comply and implement all control measures set out in the HMMP, including those related to waste oil management;
- maintain E&S control measures, including waste oil management, and modify these controls as needed;
- monitor and maintain records of waste oil generated and transfer to hazardous waste storage facilities; and
- undertake the agreed corrective actions in a timely manner.
- Waste oil collection, transport and treatment contractor/vendor (i.e. South Pacific Oil) has the main roles and responsibilities to:
 - obtain and maintain relevant licence to collect, transport and treat/dispose waste oil according to national legislation as well as international industry good practice such as the WBG General EHS Guidelines (2007), if possible;
 - comply with national legislation on implementation of waste oil management;
 - maintain records (i.e. manifests) of waste oil receipt, transferred, disposed or treated at relevant licenced facilities;
 - Make available all records and chain-of-custody documents to HEC as and when requested
 - collaborate with HEC and/or its sub-contractors in audit, if required.
 - Comply with the requirements of this waste oil management procedure, imposed through contractual provisions



Roles and responsibilities of other parties such as THL's personnel are as indicated in **Section 2.3**.

1.3. *DETAILED PROCEDURE*

1.3.1. **Onsite waste oil collection**

Waste oil will be generated from the engines of generators and heavy equipment and light vehicles during maintenance, such as engine oil check and replacement, gear oil check and replacement, engine check, overall vehicle body check, etc. It is also generated from the gearboxes of crusher plant and batcher plant.

Engine oil change or replacement will only be carried out at the workshop for heavy equipment and light vehicles, currently located within the proposed worker camp. Under no circumstances will oil change, refilling of oils and lubricants, or the changing of any parts containing oils and lubricants (eg fuel filters) be undertaken outside of the

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workshop. This requirement is in place to minimise the potential for hydrocarbon spills entering sensitive environmental areas. It is also ensuring that collected waste oil is able to be immediately moved into designated storage areas (see below).

For large stationary plants (e.g., crusher plant and batcher plant), engine oil change will need to be conducted at the siting area, and only where there is an oil change area constructed in accordance with the below principles.

oil change area will be fitted with waterproof basement/floor (e.g., concrete floor), dike and embankment, drainage and catch basin for leaked oil. Oil changes will be carried out using trays to prevent spillage or leakage when discharging waste oil from machines. Funnels will always be used and decanting waste oil into and from containers should be minimised to ensure no oil spillage.

As a matter of principle, oil or lubricant replacement and handling in storage areas will only be undertaken by skilled mechanics for whom these tasks are specifically described in their job description.

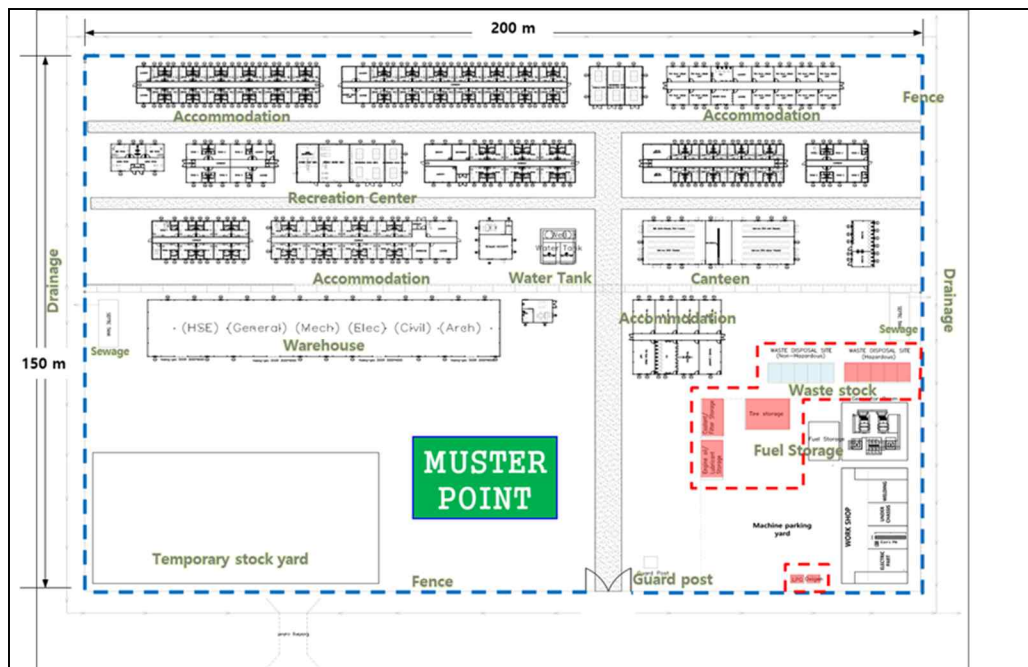




Figure C-1 Workshop area and waste oil storage within the Worker Camp

1.3.2. Storage of waste oil

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One location has been designated for waste oil storage, being within, in the worker camp near the workshop area. This location has been selected keeping in view that most of the waste oil will be produced due to periodic replacement of engine oil from heavy equipment, which will be mainly carried out in the workshop area. As such, it would be easy to collect and transfer waste oil from the workshop to the nearby storage.



The location of this storage area is approximately 30m from a worker accommodation, 50m from the canteen facilities, and 200m from the nearest residential dwelling not owned or managed by the Project.

Waste oil shall be stored only in the designated area and stored in 210-litre barrels or 1,000 litres PVC tanks. Waste oil will be collected into these containers until one loaded or 1,000 litres is complete for transporting to Ranadi Yard of South Pacific Oil Limited (SPO). For waste oil and lubricants changed and collected at the items of stationary plant, it will be immediately transported to this designated area for storage. This will be done within enclosed barrels only (ie no open buckets or storage), safely secured within a heavy vehicle within a tray that will contain any oils should there be a spillage. No intermediate storage of oil will be undertaken.

The engine oil/lubricant and coolant/filters storage areas will be constructed in accordance with the specifications as outlined within the below table.

Table C-1 Building specifications for waste oil storage block

Classification	Engine oil/ Lubricant / Paint	Coolant/ Filter
Size (W*L*H)	10m*5m	10m*5m
Bottom Foundation	Concrete pad 150mm	Concrete pad 150mm
External wall	Concrete block; H=3m	Concrete block; H=3m
Roof	C/S 0.4mm	C/S 0.4mm
Entrance door	Double door and door lock	Double door and door lock
Floor finishing	Sand 100mm	Sand 100mm
Fire Fighting (Extinguisher)	ABC 20kg Extinguisher	ABC 20kg Extinguisher

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Window	PVC 1000*1000 sliding with 3mm clear glasses	PVC 1000*1000 sliding with 3mm clear glasses
Ventilation fan	1 ea (20 change per hour)	1 ea (20 change per hour)
Lighting system	Internal and external for security	Internal and external for security



In addition to providing the physical containment space, HEC will apply a number of best-practice principles as outlined below

Containment of waste oil

- Ensuring that containers are provided that must be compatible with type of oil stored, as well as temperature and pressure.
- Containers must not be damaged or broken, leak or have severe rusting, structural defects, or signs of deterioration to prevent potential leaking and/or evaporating of waste oil. HEC will reject any containers provided by, or utilised by, any contractors that are considered damaged in any manner.
- Inlets and outlets of the containers must have reinforcement or special design and be checked regularly to prevent leakage.
- Containers must be sufficiently hard enough to withstand impact; not be damaged, deformed, or broken because of the weight/pressure of waste oil.
- Having clear label of "Waste Oil" on containers as well as relevant safety sign (e.g., liquid, flammable, danger) to provide information of hazards and chemical compositions of waste oil;
- No overloading/overspilling container at site at any time by limiting the volume of waste oil not exceeding a certain the containers' capacity (e.g., 90% of container's volume capacity or maintaining 10 cm space between waste oil surface to the top of the container);
- Preventing waste oil spill and leaking cases by moving/carrying carefully and ensuring that containers are tightly covered or tied with relevant caps. Under no circumstances is oil to be moved or stored in any open containers;

Waste oil storage compound

- Leaving oil-filled containers outside the locked storage compound is strictly prohibited. This includes any intermediate storage where oil/lubricants are

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changed at the stationary plant items. This oil must be immediately placed in a container and transported to the storage compound

- Measures will be taken to completely prevent waste oil containers from direct impacts of sunlight, rain, strong wind or flooding. Appropriate control of air flow should be maintained. In particular, the area will have a roof that covers the entire storage area
- The basement/floor of the waste oil storage area is tight, impermeable, waterproof, and able to block rainwater from leaking in.
- Waste oil storage areas will have secondary containment (in the form of a dike, drainage and leakage catch basin) to contain any oil that leaks or spills from the stored containers.
- The waste oil will not be mixed with any other groups of hazardous wastes that may be used (eg acids and bleaches), particularly those that may react with each other.
- Waste oil containers should not be stacked up and should have oil spill pallets.

Equipment at the waste oil storage

- A signboard and label of waste oil in a readable form (i.e., English, readable text size);
- Contents of the signboard and label must not be blurred or faded.
- Materials Safety Data Sheet (MSDS) of waste oil and kept in a location where it will not be stolen or exposed to weather⁵;
- Emergency response procedures and contact details as it relates specifically to spills, leaks, explosions and chemical exposure. These are detailed within the SPERP,
- Occupational health and safety PPE requirements are to be clearly sign-posted at the storage area;
- The emergency response kit (spill kits) will always be available and ready when moving waste oil, including absorbent materials and shovels for use in case of leakage, spillage of waste oil;

⁵ Such as that similar to: https://usa.arcelormittal.com/~media/Files/A/Arcelormittal-USA-V2/what-we-do/product-compliance/safety-data-sheets/sludges-liquids/201812_Used-Waste-Oil.pdf; or <https://www.chevronmarineproducts.com/content/dam/chevron-marine/fast-services/used-oil-sds/Used%20Lubricating%20Oil%20SDS.pdf>

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- Fire safety and firefighting equipment, including fire extinguishers suitable for hydrocarbon fires according to instructions of fire safety authorities will always available and be checked regularly for their functioning.
- First aid kits and eyewash equipment are available and checked regularly for its functioning and expiry.
- Handling devices (manual or automatic) for waste oil containers movement;
- Communications devices (telephones or walkie-talkie) or warning devices (e.g., alarm, horns, loud speakers) to report any incident as quick as possible, if required;
- Emergency escape/evacuation plan and map, including assembly/gathering point, and exit sign;



Other requirements at the waste oil storage

- Only authorized and trained personnel are permitted to decant waste oil into drums in this compound.
- Conduct inspections of oil storage areas at least on a weekly basis;
- Document inspection records and keep with the Spill Prevention and Emergency Response Plan at site for a period that is required by local laws.
- Waste oil may be re-used on-site (e.g., filtered and used as a lubricant) if the oil is not contaminated with hazardous material.
- Waste oil will not be used as a dust suppressant.
- Waste oil will not be stored in waste piles or mixed with other hazardous waste.
- Waste oil will not be mixed with other types of oil.



1.3.3. Waste Oil Transfer

Waste oil will be transported from HEC's hazardous waste storage compound to the South Pacific Oil's storage facility (i.e., estimated 15.44km in total) following HEC's hazardous waste storage Lot 1 road - Black post intersection - Kukum Highway – Ranadi Yard. The transportation vehicles should comply with the following minimum requirements:

- The vehicles must satisfy technical safety and environment safety requirements applied to vehicles of the same type, as appropriately inspected and licenced by relevant authorities.

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TINA RIVER HYDROPOWER DEVELOPMENT PROJECT	HEC-CDSB-CESMP- PPP-013	REV. 8	PAGE 84 OF 89

- Secondary containments (pallets) should be available for vehicles using fixed containers. Detachable containers or boxes must be firmly fastened to the truck before operating and transporting.
- All waste oil containers or boxes must be tightly capped to ensure no spillage or leakage as well as evaporation during transportation.
- No overloading/overspilling container by limiting the volume of waste oil not exceeding a certain the containers' capacity (e.g., 90% of container's volume capacity or maintaining 10 cm space between waste oil surface to the top of the container);
- The floor and walls of the transportation vehicles are tight, especially between the floor and walls to minimise movement during transportation, waterproof, non-flammable, anti-corrosion, and do not cause chemical reactions with waste oil. The vehicle's floor is able to hold the maximum permissible weight of received waste oil.
- Vehicle's roof can cover the entire waste oil containers being transported.
- Measures must be taken to prevent air and water from entering such containers.
- Waste oil should be transported separately from other types or groups of hazardous wastes that can cause chemical reactions.
- Waste oil transportation vehicle should have:
 - Fire extinguishing devices (at least fire extinguishers) according to regulations on fire safety and firefighting;
 - Absorbent materials and shovels to be used in case of leakage, spillage of waste oil;
 - Relevant first aid kits;
 - Communications devices (telephones or walkie-talkie);
 - Detachable warning signs and label in a readable form (i.e., English and local language, readable text size);
 - Contents of the warning sign and label must not be blurred or faded.
 - The vehicle should have readable signboard showing its function of hazardous waste transportation, together with name, address, phone number of the vendor's facility on the two sides of the vehicle.
 - Handling devices (manual or automatic) for waste oil containers movement, loading and unloading;
 - Accident signage/warning (to be used in case of accident);
 - Brief instructions on safe operation of the vehicle, loading and unloading of waste oil, emergency response procedures (including

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TINA RIVER HYDROPOWER DEVELOPMENT PROJECT	HEC-CDSB-CESMP- PPP-013	REV. 8	PAGE 85 OF 89

- phone numbers of local environment responsible authorities, police and firefighting forces, and medical emergency services);
- Occupational health and safety protection regulations (including use of personal protective equipment) are available in readable manner in the driver's cabin.

1.3.4. Subcontractor and vendor management



HEC and its sub-contractors will contract with vendors having capability to collect, transport, handle, treat or dispose waste oil, licensed by relevant authorities in accordance with local regulations. In particular, a single point contract will be entered into with South Pacific Oil (SPO) to provide these services.

HEC and sub-contractors must strictly adhere to local legislation and project's hazardous materials management plan, which include:

- Contract management: HEC will sign a contract with licensed waste oil collection vendors in compliance with the local regulation. All sub-contractors are to collect their waste oil at relevant workshop and transfer to the dedicated hazardous waste storage facility of HEC.
- As part of these contractual provisions, HEC will reserve its rights to conduct inspections/audits with all sub-contractors and SPO to ensure that waste oil has (a) been collected and transported to the Projects designated waste storage area, and (b) has been completely treated and/or disposed of at treatment facilities that have been licensed by SIG.
- Generated waste oil volume should be recorded and kept at site.
- Waste oil handover page (i.e., manifests) should be signed by authorised personnel.

All Project waste oil will be collected by either HEC or its sub-contractors from site to HEC's hazardous waste storage compound. Waste oil will then be transferred to licensed vendors, who have suitable transportation vehicles to transport the waste oil to designated disposal area or treatment facilities. HEC shall sign a contract with an approved hazardous waste treating vendors in compliance with applicable laws and regulations.

In the case that the amount of generated waste oil is too significant (i.e., more than the amount estimated of 400 litres per month for engine oil and 500 litres per month for lubricant/solvent) and the HEC's hazardous waste storage compound could not be



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TINA RIVER HYDROPOWER DEVELOPMENT PROJECT	HEC-CDSB-CESMP- PPP-013	REV. 8	PAGE 86 OF 89

able to store all waste oil, sub-contractors may establish their own temporary hazardous waste storage points on site with prior approval from HEC. These temporary hazardous waste storage facilities are to be design, constructed and operated in accordance with the principles outlined within this procedure. Prior to any such facility being constructed, plans and procedures are to be submitted to HEC for review, with final approval being provided by the OE.

Sub-contractors may also enter into agreements with licensed waste oil collection and disposal vendors. The vendors are to be subject to the same requirements as outlined throughout this procedure. Prior to any waste oil contractor (other than SPO) being proposed, HEC will review the capacity, facilities, and licensing and permitting status of these vendors prior to any services commencing.

HEC and sub-contractors shall require all waste oil treating vendors to submit their competent profiles and permits for due diligence and approval process. In order to select qualified waste oil treatment vendors, HEC and sub-contractors shall carry out technical bid evaluation on waste oil treatment vendors' competent capacities such as:

- Business registration certificate and experiences;
- The status and history/legacy of legal violation;
- Transportation and treatment capacity as at least compliance with national regulation and requirements (e.g., coverage, tanks/bucket types, appropriate signage);
- Ability to accommodate waste oil with amount and collection frequency as agreed;
- Having required spill control plan/measures during transportation;
- Storage capacity and design as at least compliance with national regulation and requirements for hazardous waste storage;
- Availability of a context and activity specific EHS management plan, emergency preparedness and response plan (including oil spill scenario);
- Personnel ability, training received, occupational health and safety measures including appropriate PPE provided;
- Treatment or disposal facilities as at least compliance with national regulation and requirements.
- Capacity to collect, recycle or dispose of waste oil in accordance with a periodic collection and disposal schedule that meets the requirements of HEC
- Does not engage in any unlawful disposal of collected waste oils through means such as burial, incineration or direct disposal to the environment.

	HAZARDOUS MATERIALS MANAGEMENT PLAN		
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Sub-contractors shall maintain and submit a list of waste oil treating vendors and their competency profiles to HEC for due diligence and approval prior to allowing them to provide services for the Project. This list shall be updated and resubmit to HEC if there are any changes. HEC shall maintain and update the list of waste oil treatment vendors of the Project and submit to THL or relevant authorities, upon requested.

At this stage, it is expected that HEC will sign the contract with SPO for waste oil treatment and recycle/reuse. It is anticipated that the storage size of SPO is 20,000 litres. SPO will collect and store waste oil onsite until final disposal/treatment is confirmed. HEC will keep checking the progress with SPO regarding the final disposal/treatment of waste oil. It is noted that HEC has discussed with SPO and it is agreed that HEC can conduct inspection on the waste oil storage facility of SPO at Ranadi Yard. As part of this inspections, HEC will also reconcile waste oil manifests and collection records with oil stored at the yard and records of end-disposal to monitor performance of SPO in ensuring that all waste oil is being stored and disposed of appropriately.

1.4. *Records*



1.4.1. *HEC and Subcontractor Record Keeping*

The waste generation, storage, and disposal records (including for waste oil) for all site activities shall be periodically reported to HEC and THL and maintain during construction period.

Sub-contractors shall record and maintain the following documents for the contracting periods and report it to HEC regularly and at the completion of the contract:

- Hazardous waste inventory (including waste oil);
- Copies of all hazardous waste manifests;
- Internal inspection/audit report on waste management, including waste oil;
- The list of hazardous waste treating vendors;
- License of hazardous waste treating vendors;
- Inspection/audit reports on hazardous waste treating vendors;
- Others, if any, such as:
 - Waste disposal log;
 - Training record.

HEC shall record and maintain the following documents during construction phase:

	HAZARDOUS MATERIALS MANAGEMENT PLAN	 Tina Hydropower Limited	
TINA RIVER HYDROPOWER DEVELOPMENT PROJECT	HEC-CDSB-CESMP- PPP-013	REV. 8	PAGE 88 OF 89

- Hazardous waste (including waste oil) transfer documentation;
- Internal inspection and audit reports on HEC and sub-contractors' waste management performance, including waste oil management;
- Inspection/audit reports on hazardous waste treating vendors;
- Training records of involved personnel;
- All performance report of hazardous waste management submitted by sub-contractors.

Non-compliances and incidents will be investigated in accordance with the procedures outlined within the CESMP document.

1.4.2. Waste oil transfer documentation

All waste oil transferred to the approved vendors must be recorded and accompanied with the supporting documentation before it is transported from the site. The documentation of waste oil should follow the main hazardous waste manifest form, which will be used by the HEC and sub-contractors. The hazardous waste manifest form at minimum will have the following details:



- location of the hazardous waste generation (i.e., site name, administrative address including district or province);
- manifest document numbering;
- waste source generator (i.e., HEC or sub-contractor's name, office address and facility address, contact details);
- hazardous waste treating vendors (i.e., name, office address and facility address, contact details);
- details of hazardous waste to be transferred including but not limited to the following:
 - name of hazardous waste;
 - state/status (i.e., solid/liquid/sludge);
 - hazardous waste dedicated code, if any, according to national system);
 - volume or weight;
 - notes on method of final treatment; and
 - any abbreviation/ special symbols used.
- confirmations of:

Process Step	No.	Process	Required Document/Action	Action By	Remark
Before arrival at Honiara (Before ETA)	1		Notice to; (with shipping document, dealer's license, etc) - RSIPF by Letter 1 week before arrival - Honiara Council by letter 1 week before - Guadalcanal Council by Letter 1 week before	HEC	
At Port during Customs Clearance after Arrival	2	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Loading to Port</div>	Submit to; (with necessary documents) - Customs clearance No required to attend a person who has blasting license --> RSIPF Confirmed. But at least a liaison officer from HEC to be at the ports to coordinate with both agencies.	SI Port (Customs clearance)	Confirmed by SI Port Authority
	3	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Import Clearance</div>	Must be done customs clearance within 8 hours as max. Import permit issue by RSIPF --> RSIPF confirmed. And this is the Dealers License which issues by the Commissioner of Police	HEC/ Forwarding company	Confirmed by SI Port Authority
Transportation after release from SI Port (After Customs duty)	4	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Start transportation from Port</div>	Notice to; - RSIPF by email with exact starting schedule - Request RSIPF to convoy explosive container from Port to magazine site And request to necessary action for supervision of container during transporting	HEC(Forwarder) / RSIPF	
	5	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Transporting to Magazine</div>		HEC(Forwarder) / RSIPF	
A situation to store the container stop-over at Camp site	6-1	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Uploading the container at HEC's Camp site</div> <p style="text-align: center;">Or</p>	Currently access way to magazine from camp site is too rough, curve and ups and downs. So, it is a general requirement to stop-over at HEC's camp and it is required to immediately unloading the explosives from container and shift to proper other vehicle to move magazine	HEC	
Optional 1) Occuring any emergency situation to store the container temporary	6-2	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Unloading the container at RSIPF yard (Hell's point)</div>	Only in the following situations; - In case of raining, late delivery time (out of 6 AM ~ 6 PM) or any other situation of force majeure	HEC/ RSIPF	

MEETING ATTENDANCE SHEET

TYPE: Explosive transportation procedure
 " Storage Capacity.
 DATE: 14 Sep 2021
 CHAIRED:
 LOCATION: HEC office

S/N	COMPANY	EMP #	JOB TITLE	NAME	NATIONALITY	SIGNATURE
1	RSIPF		Police officer	Pc Relewi	Solomon	
2	RSIPF		Police officer	SGT Morris Ato	Solomon	
3	RSIPF		Police officer	Insp. C. Tunyio	Solomon	
4	RSIPF		Police officer	S/SGT. Peter R.	Solomon	
5	ADF-EDAV.		ADF ADVISOR	WOF IAN PERCY	AUS	
6	HEC		Senior Civil Engineer	Kim J.H.	Korea	
7	HEC		Planning Manager	Kim Dohoon	Korea	
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	HAZARDOUS MATERIALS MANAGEMENT PLAN		
TINA RIVER HYDROPOWER DEVELOPMENT PROJECT	HEC-CDSB-CESMP- PPP-013	REV. 8	PAGE 89 OF 89





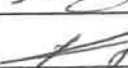


- Full name of receiver on behalf of hazardous waste treating vendors, signature, time and date;
- Full name of receiver on behalf of hazardous waste generator, signature, time and date;
- completion of safe treatment of hazardous waste by the hazardous waste treating vendors using the method as declared;
- Copy number, if any.

ANNEX P-13-IV EXPLOSIVE TRANSPORTATION PROCEDURE

Process Step	No.	Process	Required Document/Action	Action By	Remark
Before arrival at Honiara (Before ETA)	1		Notice to; (with shipping document, dealer's license, etc) - RSIPF by Letter 1 week before arrival - Honiara Council by letter 1 week before - Guadalcanal Council by Letter 1 week before	HEC	
At Port during Customs Clearance after Arrival	2	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Loading to Port</div>	Submit to; (with necessary documents) - Customs clearance No required to attend a person who has blasting license --> RSIPF Confirmed. But at least a liaison officer from HEC to be at the ports to coordinate with both agencies.	SI Port (Customs clearance)	Confirmed by SI Port Authority
	3	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Import Clearance</div>	Must be done customs clearance within 8 hours as max. Import permit issue by RSIPF --> RSIPF confirmed. And this is the Dealers License which issues by the Commissioner of Police	HEC/ Forwarding company	Confirmed by SI Port Authority
Transportation after release from SI Port (After Customs duty)	4	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Start transportation from Port</div>	Notice to; - RSIPF by email with exact starting schedule - Request RSIPF to convoy explosive container from Port to magazine site And request to necessary action for supervision of container during transporting	HEC(Forwarder) / RSIPF	
	5	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Transporting to Magazine</div>		HEC(Forwarder) / RSIPF	
A situation to store the container stop-over at Camp site	6-1	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Uploading the container at HEC's Camp site</div> <p style="text-align: center;">Or</p>	Currently access way to magazine from camp site is too rough, curve and ups and downs. So, it is a general requirement to stop-over at HEC's camp and it is required to immediately unloading the explosives from container and shift to proper other vehicle to move magazine	HEC	
Optional 1) Occuring any emergency situation to store the container temporary	6-2	<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">Unloading the container at RSIPF yard (Hell's point)</div>	Only in the following situations; - In case of raining, late delivery time (out of 6 AM ~ 6 PM) or any other situation of force majeure	HEC/ RSIPF	

MEETING ATTENDANCE SHEET

TYPE: Explosive transportation procedure
 " Storage Capacity.
 DATE: 14 Sep 2021
 CHAIRED:
 LOCATION: HEC office

S/N	COMPANY	EMP #	JOB TITLE	NAME	NATIONALITY	SIGNATURE
1	RSIPF		Police officer	Pc Relewi	Solomon	
2	RSIPF		Police officer	SGT Morris Ato	Solomon	
3	RSIPF		Police officer	Insp. C. Tunyio	Solomon	
4	RSIPF		Police officer	S/SGT. Peter R.	Solomon	
5	ADF-EDAV.		ADF ADVISOR	WOF IAN PERCY	AUS	
6	HEC		Senior Civil Engineer	Kim J.H.	Korea	
7	HEC		Planning Manager	Kim Dohoon	Korea	
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ANNEX P-13-V EXPLOSIVE REGULATIONS LICENCES

FORM B
SOLOMON ISLANDS
EXPLOSIVES REGULATIONS

(Regulation 4)

Dealers Licence

Serial No. — Linked to Explosives **Users License 004**

Permission is hereby granted to: — Hyundai Engineering Company (HEC) Ltd, Honiara, Solomon Islands;

1. To import or otherwise deal in explosives, such explosives, not to exceed: maximum storage of 3 tons of explosives per building and 40,000 detonators at any time during the validity of this licence.
2. This licence is valid for 12 months from the date hereof and is not transferable.
3. Special Conditions to be observed;
 - All explosives imported are for the use of Hyundai Engineering Company (HEC) Limited or their representatives and are not for resale, or onward shipping to any other company or Country
 - The Licensing authority to conduct monthly visits and inspections to the explosive magazines to ensure compliance at all times
 - The Licensee to provide monthly updates on current explosive stock to the Licensing authority
 - Prior arrival of all explosive stocks at Port/ wharf, or any movement of the explosive stocks outside of the mining area of operation – importantly the Licensing authority is to be duly informed.
 - Hyundai Engineering Ltd representatives for these explosives are;
 - i. Lee, Young-Min [Managing Director],
 - ii. Lee, Young-Chul [Blasting Expert].
 - iii. Jo, Chung-Yul [Driller]
 - All explosives will be utilized by Hyundai Engineering Company LTD Sole use in the Tina Hydropower Development Project in Central Guadalcanal, Solomon Islands.
 - All explosive are subject to random licensing checks as required.
4. Form B to be completed in triplicate and copies supplied to :
 1. Copy retained by licensee
 2. Copy to be retained by Licensing officer
 3. Copy to be sent to the Provincial Secretary in whose Province the explosives will be stored and used

Dated at ...Honiara....this *02nd* day of *August* 2022

Fee of \$ 500 (amount) paid on 13/09/2021

G.T.R. No. **00859913**

Licensing Officer



MOSTYN MANGAU
Commissioner of Police
Royal Solomon Islands Police Force



FORM G
SOLOMON ISLANDS
EXPLOSIVES REGULATIONS

(Regulation 49)

Licence for a Dealers Explosive Magazine

Serial No. Linked to Explosives **Users License 004**

1. Permission is hereby granted to: — Hyundai Engineering Company (HEC) Ltd, Honiara Solomon Islands;

Who is the holder of a valid **User's License Number 004** issued at Honiara on **18th October 2021** to store a quantity of explosives not exceeding the maximum storage of 3 tons of explosives per building and 40,000 detonators at any time during the validity of this licence.

The Explosive Magazine details as follows;

(a) Site and Location

- Tina Hydropower Development Project, core land on Central Guadalcanal, Solomon Islands.

(b) Brief details of Construction and Premises

- The magazine is constructed of five (5) separate concrete building, lined in wood and surrounded by a security fence and blast mounding between the detonator building and the 4 explosive storage building.

2. Special Conditions to be observed;

- All explosives imported are for the use of Hyundai Engineering Company Limited or their representatives and are not for resale, or onward shipping to any other company or Country. Hyundai Engineering Company Limited sole representatives for these explosives are;
 1. Lee, Young-Min [Managing Director]
 2. Lee, Young-Chul [Blasting Expert]
 3. Jo, Chung-Yul [Driller]

- All explosives will be utilized by Hyundai Engineering Company LTD, or sole representatives for use in a Rock blasting on Central Guadalcanal, Solomon Islands.
- All storage of explosive is subject to random licensing checks as required.
- The Licensing authority to conduct monthly visits and inspections to the explosive magazines to ensure compliance at all times
- The Licensee to provide monthly updates on current explosive stock to the Licensing authority
- Prior arrival of all explosive stocks at Port/ wharf, or any movement of the explosive stocks outside of the mining area of operation – importantly the Licensing authority is to be duly informed.

3. Form G to be completed in triplicate and copies supplied to :

1. Copy retained by licensee
2. Copy to be retained by Licensing officer
3. Copy to be sent to the Provincial Secretary in whose Province the explosives will be stored and used

4. Key holders

The key holders nominated by the holder of the license are:

- i. Lee, Young-Min [Managing Director]
- ii. Lee, Young-Chul [Blasting Expert]

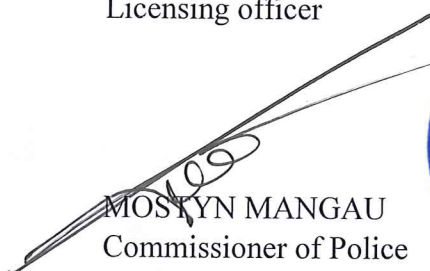
5. This license is valid for 12 months from the date hereof and is not transferable.

Dated at...Honiara...this...^{2nd}...Day of...^{August}...2022

Fee of \$ 500 (amount) paid on 13/09/2021

G.T.R. No.**00859913**

Licensing officer


MOSTYN MANGAU
Commissioner of Police
Royal Solomon Islands Police Force

