

MASSY | MOTORS



3 STRAND

NEW AMSTERDAM

BERBICE, GUYANA

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SEPTEMBER 30, 2021

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1. INTRODUCTION

Massy Motors (Guyana) Ltd. (MMGL), formerly known as Associated Industries Limited (AINLIM) and Massy Industries (Guyana) Ltd, was established in September of 1968. At that time the company carried out the business of a Spare Parts dealership.

Over the years the company underwent major expansion, and to date MMGL, is one of the leading players in Guyana representing major brands from across the Caribbean, North America, Europe, Central America and other countries. The company has a presence in Demerara, Berbice and Essequibo, and is divided into two major divisions: Distribution and Dealership.

With a wide range of products including SUVs, pickups, sedans, batteries, tyres, lubricants, chemicals, tractors, generators etc., Massy Motors has representation for major brands such as Nissan, Maura, Good Year, Massey Ferguson, Bayer Crop Care Science, F.G Wilson, etc. and offers the full after-sales support for all lines represented.

As of June 6, 2019, the company embarked on an initiative to strategically align its operations with the Automotive and Industrial Equipment Business Unit by changing its name from Massy Industries (Guyana) Ltd to Massy Motors (Guyana) Ltd. As part of this strategic initiative, the company will be focusing mainly on the dealership business, adding new lines and strengthening support.

MMGL is a wholly owned subsidiary of Massy Guyana Ltd. The Massy Group of Companies has grown into one of the Caribbean basin's largest conglomerates. Comprised of over 60 companies, Massy provides a variety of products and services, including Integrated Retail, Motors and Machinery Sale and Rental, Gas Products, Financial Services, and Strategic Investments Portfolio.

MMGL as part of its operations, imports and distributes automotive lubricants and agro chemicals. The importation and distribution of agro-chemicals is regulated and licensed by the Pesticide and Toxic Chemicals Board (PTCCB). MMGL is in possession of a license from the PTCCB for these purposes and it is valid until December 31, 2021. In this regard, MMGL is seeking environmental authorization from the Environmental Protection Agency (EPA) for the storage of these products for resale.

2. PROJECT LOCATION/SITE DESCRIPTION

MMGL Berbice operations is located at Lot 3 Strand, New Amsterdam, Berbice, Guyana. (Figure 1). The property occupies approximately 2.04 acres of land, bounded to the East by the Strand Main Road, to the West by the Berbice River, North by Kisoons Furniture, East and South by a Commercial Building. Berbice River is approximately 460 meters West. The area is mixed with commercial, industrial, and residential activities.

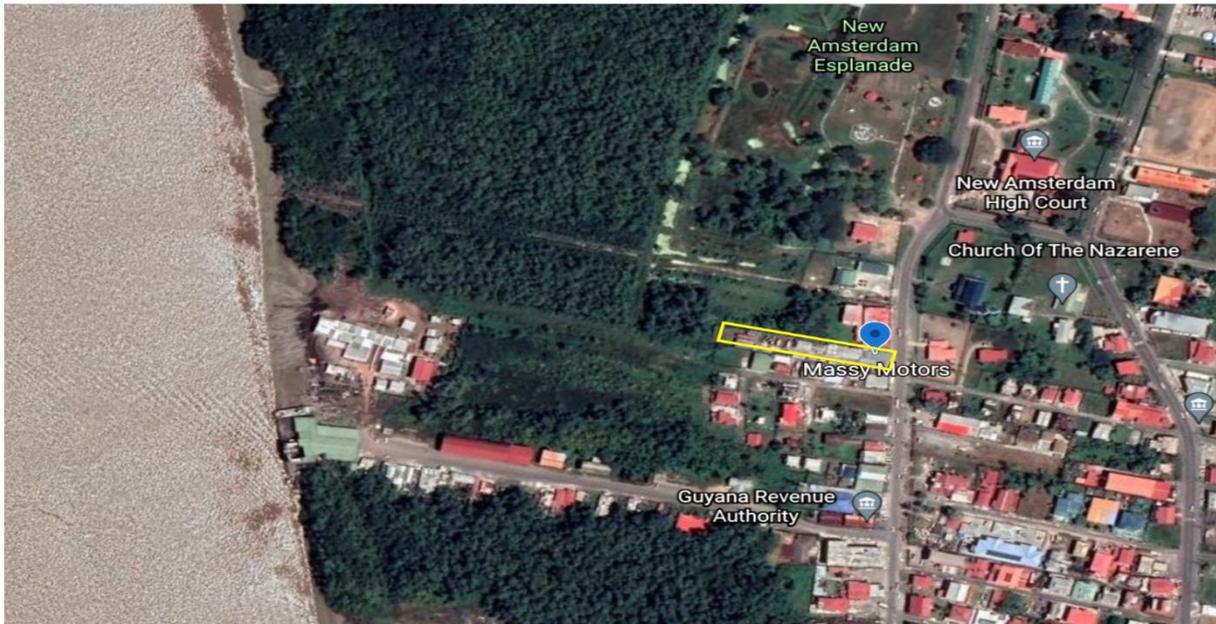


Figure 1: Project Location and surrounding land uses

The facility is also bounded by two small storm water drains immediately to the North and South. These drain into a main storm water drain immediately to the West. The West main storm water-drain then empties into the Berbice river.

The area where the facility is located is densely populated and is free from any eco-sensitive zone/area. No threat to bio-diversity or waterways occurred or is envisaged due to the company's operation.

3. HE PROJECT COMPONENTS, DESIGN, SIZE OF STAFF, AND ANNUAL TURNOVER

The facility stores and distributes lubricants and agro-chemicals. Annual turnover is estimated at 680M Guyana Dollars. Currently there are 16 employees. The facility also comprises parking, storage containers, warehouse, generator, lead acid batteries storage and other supporting infrastructures such as offices, security hut, and sanitary facilities.

No new road or other transport infrastructure will be developed or required. Existing road access infrastructure is enough. Power supply from Guyana Power and Light (GPL) and Potable water supply from Guyana Water Incorporated (GWI) is in place. Adequate storm water drains are on site providing storm water drainage into surrounding drains which leads to the Berbice river. Sewage system (Septic tanks) is installed and operational.

The project is seeking environmental authorization for storage of lubricants. There are other related infrastructures and includes a stand-by generator and fuel storage for same. The company also stores agro-chemicals approved and certified by the PTCCB. Used damaged batteries are also temporarily stored on site before sending to the Ruimveldt Main Location on a monthly basis.

3.1 Lubricants Storage and Handling

An average of 500,000 liters of lubricants are distributed annually from the location in sealed plastic pails and plastic bottles. These are stored in a separate bond with concrete floor and stacked on shelves. Table 1 below lists the lubricants being stored and distributed. MSDS sheets are attached.

Advan4TAX520W50SLMA_6*1L_NAMD	Rimula R2 40 CF_1*209L_A1WJ
ADVANCE 4T AX5 20W50 (SL/MA2) 6*1L	Rimula R2 40 CF_1*20L_A1WJ
Advance SX2Predl_6*1L_NAMD	Rimula R2 40 CF_3*4L_A1W9
Gadus S2 V220 2_1*18kg_A1WJ	Rimula R2 40 CF_6*1L_LATA
Gadus S2 V220 2_10*0.4kg_A1WJ	RIMULA R2 50 CF 1*209L_A1PU
Gadus S3 V220C 2_1*18kg_A1WJ	Rimula R2 50 CF_1*209L_A1WJ
GDS S3 V220 C 1 0.4KG	Rimula R2 50 CF_1*20L_A1WJ
Helix HX3 40 SLCF_3*4L_A1W9	RIMULA R2 50 CF_1*5UGL_AIPU
Helix HX3 40 SLCF_6*1L_LATA	Rimula R2 50 CF_3*4L_A1W9
Helix HX3 50 SLCF_3*4L_A1W9	Rimula R2 50 CF_6*1L_LATA
Helix HX3 50 SLCF_6*1L_LATA	RIMULA R4 X15W-40 1* 5UGL
HELIX HX7 SP 10W-30 6*1L	ROTELLA ELC NF 50/50 6*1UGL_A0II
Helix HX7 SP 10W-30_3*4L_LATA	Spirax S2 A 80W-90_1*55ugl_A1WJ
HELIX HX7 SP 10W40 3*4L	Spirax S2 A 80W-90_1*5ugl_A1WJ

HelixHX5SN10W30_3*4L_A1W9	Spirax S2 A 80W-90_6*1L_NAMD
HelixHX5SN10W30_6*1L_LATA	Spirax S2 A 85W-140_1*55ugl_A1WJ
HelixHX5SN10W40_3*4L_A1W9	Spirax S2 A 85W-140_1*5ugl_A1WJ
HelixHX5SN10W40_6*1L_LATA	Spirax S2 A 85W-140_3*1ugl_A1W9
HelixHX5SN20W50_3*4L_A1W9	Spirax S2 A 85W-140_6*1L_NAMD
HelixHX5SN20W50_6*1L_LATA	Spirax S3 ATF MD3 6*1L
HelixHX7 SP 10W40 6*1L_LATA	Spirax S3 ATF MD3_1*5ugl_A1WJ
HelixHX7HM5W30SN_3*4L_A1W9	Spirax S4 CX 50_1*55ugl_A1WJ
HelixHX7SN10W40SN_3*4L_A1W9	Spirax S4 TXM_1*5ugl_A1WJ
HelixHX7SN10W40SN_6*1L_LATA	Tellus S2 MX 68_1*55ugl_A1WJ
HlxHX7SNPLUS10W30SN+_3*4L_LATA	Tellus S2 MX 68_1*5ugl_A1WJ
HlxHX7SNPLUS10W30SN+_6*1L_LATA	AMBRA MULTI GEAR OIL 140 20L
HlxUltra5W40SN+A3B4_3*4L_LATA	AMBRA 68 HYD OIL 20L
HlxUltra5W40SN+A3B4_6*1L_LATA	AMBRA HYDROPOWER AUTOMATIC TRAMMISSION FLUID 20LT BOTTLE
Nautilus PremiumOutb_1*20L_A0II	AMBRA HYPOIDE MULTIGEAR TRANSMISSION OIL 20L PAIL
Nautilus PremiumOutb_1*55ugl_A0II	AMBRA MULTI-FX MULTI-GEAR TRANSMISSION OIL 20L PAIL
Nautilus PremiumOutb_6*1qt_NAMD	AMBRA SUPER GOLD DIESEL ENGINE OIL 4LT BOTTLE
Omala S2 GX 220_1*5ugl_A1WJ	PETRONAS MACH 5 SN 1LT
RimR4X15W40CI4E7DH1_1*209L_A1WJ	PETRONAS URANIA S40 20LT PAIL
RimR4X15W40CI4E7DH1_1*20L_A1WJ	Urania 800 25W60-20LT
RimR4X15W40CI4E7DH1_3*4L_A0II	RimR4X15W40CI4E7DH1_6*1L_LATA
Rimula R2 30 CF_1*20L_A1WJ	RIMULA R2 40 1*5UGL

Table 1: List of lubricants

Pails and drums will be stored within the bond in a clean and dry location. Storage temperatures will always remain moderate. Lubricants in storage are located away from all types of industrial contamination including dust and humidity. Lubricants will be stored in the horizontal position on proper storage racks allowing the containers to be rotated and used on a first-in, first-out basis. Drums, pails, and bottles of lubricants are leak proof and clearly labeled with a brand name and type of lubricant inside.

Storage space is adequate for organization and environmental control. Product storage, equipment, and secondary containers, and spill cleanup material will be properly organized, inventoried, and kept in their proper storage location. The condition of the storage space will be inspected routinely.

Spill cleanup and containment material is an important component in proper lubricant storage. The bond for lubricant storage has spill cleanup material readily available, stored properly, and inventoried. Bond also have disposal containers for spills or leaks with necessary cleanup material.

3.2 Agro-chemicals Storage and Handling

Agro-chemicals have been authorized by the Pesticide and Toxic Chemicals Board (PTCCB) (see certificate of approval). Figure 2 provides the list of approved agro-chemicals. These are stored in a secured separate bond in keeping with PTCCB guidelines.

MASSY MOTORS GUYANA LIMITED			
PROD#	PRODUCT DESCRIPTION	P/GRP	U.O.M
AGR002	TORPEDO - 12X1LITRE	INSE	EACH
AGR005	2-4D AMINEX 72 G/L 12X1LT	HERB	EACH
AGR010	GLYFOSAN 480 G/L, 4X4 LITRES	HERB	EACH
AGR017	HYPERKILL 25EC 250MLS	INSE	EACH
BAY002	ANTRACOL 70WP - 20X750GR	FUNG	EACH
BIES010	PARAQUAT - 12X1LITRE	HERB	EACH
EXC007	FLIP (FIPRONIL) 80DF INSECTICIDE 400X25GR	INSE	EACH
EXC008	THERMINEX (FIPRONIL) 24X500 MLS	DPCP	EACH
EXC011	SWIFT FIPRONIL ROACH GEL 35 GRS	DPCP	EACH
EXC014	EAGLE RODENTICIDE PELLETS 100X105GR	DPCP	EACH
EXC018	MAGNET B 12X1 LT (CALCIUM PHOSPHATE + BORON)	FERT	EACH
PAR010	PARI NEEM CAKES 25KG	INSE	EACH
PAR023	TAKEON (ABAMECTIN 1.8% EC) 1 LT	INSE	EACH
PAR024	TRIAZOPHOS 40% EC (KANJO)	INSE	EACH

Figure 2: List of approved agro-chemicals

3.3 Generator

The facility has a back-up generator manufactured by F.G. Wilson engineering. Capacity is 50 KVA. The Generator is self-enclosed with sound attenuating materials, and under a wooden shed and on concrete floor (figure 3). Fire extinguisher is placed nearby for any emergencies. Exhaust is approximately 3 to 4 feet in the air.



Figure 3: Generator enclosed and covered

3.4 Health and Safety Management

During operation awareness of health and safety issues and implementation of appropriate standards of performance are key aspects. Occupational and environmental health and safety is paramount in the operations. This includes basic First Aid training and plans for dealing with emergencies. A fully stocked First Aid kit (and set of emergency numbers) is available onsite. Appropriate safety protection equipment is required and enforced in designated area such as the warehouse and other storage areas. Personal Protective Equipment include hard boots, safety gloves, helmets, and eyes protection. Likewise, fire prevention measures are in place, including the deployment of adequate functional extinguishers and simple dry sand buckets. The project monitoring programme includes monthly inspection of safety equipment. Basic hygiene standards are also required, with waste disposal collection containers and disposal done by authorized companies. Employees have ready access to the Material Safety Data Sheet (MSDS) for any hazardous substance used/stored on site. MSDS provide the information needed to enable safe handling of hazardous substances at work, health hazard information, and information concerning the type of personal protective equipment required.

3.5 Emergency Response

Site-specific plans and procedures are being developed for implementing the safety requirements identified for the storage of lubricants and agro-chemicals in line with national standards and with the approval of the environmental protection agency. A workable emergency plan will address public evacuation and procedures to be followed in the event of fire and other disastrous events that could result in danger both inside and outside the facility's perimeter. Management along with the HSSE Committee have the responsibility, in emergencies, to authorize any changes to the safety procedures needed to facilitate the work of emergency response personnel.

Emergency response plans or procedures will include the identification of potential hazards; legislation governing emergency response plans; actions to be taken in emergency situations, including mitigation measures; personnel training plans; communication targets (fire service, police, neighboring communities, local government, etc.) and methods in case of emergency; and methods and schedules for the testing of emergency response equipment. Emergency response practice exercises are conducted as per a schedule.

All equipment necessary to address spills or releases of lubricants and agro-chemicals will be available on-site and in good working order. Such equipment will include sorbent materials, chemical reagent products that can be applied to chemical spills to reduce mobility, shovels and other tools to pick up spilled materials, and extra drums or other containers in which to place cleaned-up materials.

In the event of any spills, equipment for the containment of spills are stored in areas where spillages may occur. Absorbent material used for clean-up activities, as well as protective gear, such as: gloves and goggles are kept on site. Sealing solvent-soaked materials into a drum for recovery or disposal at Advance Solutions.

3.6 Education and training of staff

Personnel engaged in the handling or storage of lubricants and agro-chemicals will have appropriate and adequate training. Personnel who are not handling the lubricants/ agro-chemicals in the storage area but could be exposed by an accidental release will also be informed of the risks and hazards and be familiar with a facility's emergency response plans. Access to the storage area will be restricted to those with adequate training.

Employee training in environmentally sound management and workplace health and safety will be provided, among other things, to ensure that employees are protected against any risk within the facility, exposure and accidental injury. The basic knowledge that employees will have includes:

- The chemical properties of lubricants and agro-chemicals;
- Relevant occupational safety standards and how to safeguard their health against exposure;
- How to use personal protective equipment, such as body coverings, eye and face protectors, gloves and respiratory protectors;
- Labelling and storage standards considered appropriate for the facility or facilities, container compatibility and dating requirements, and closed-container requirements;
- How to safely handle lubricants and agro-chemicals using the equipment available at the facility at which they work;
- How to respond if lubricants and agro-chemicals are accidentally spilled.

4. POTENTIAL EFFECTS ON THE ENVIRONMENT AND PROPOSED PLANS TO MITIGATE ENVIRONMENTAL IMPACTS.

The main environmental concern associated with lubricants and chemical storage is the potential for loss and damage through spills or leakage of product to the environment. The resulting pollution can impact human health and the environment through several different pathways including air, soil, groundwater and surface water. Product leakage from storage and handling facilities has the potential to not only affect the immediate environment, but also impact on land or water courses several kilometers from the source depending on the quantity and characteristics of product that has leaked or been spilled, the period over which the discharge has occurred, and the soil and groundwater conditions (the hydrogeology) of the area.

Whether lubricants and chemicals are stored and handled in smaller containers it is important to consider the potential risks to the environment that may occur due to the handling, use and storage of the products. Leakage from storage facilities may occur from:

- Corrosion of tanks
- Spills during transfer of fuel
- Inadequate bunds
- Decommissioning of storage facilities
- Human error

The following is a preliminary assessment of possible impacts to Environment and Human Health and the mitigation measures that will be/or has been implemented by the company.

Environmental monitoring programs will be implemented to address all activities that have been identified to have potential impacts on the environment during normal operations and upset conditions. Environmental monitoring activities would be based on direct or indirect indicators of emissions, effluents, and resource use as applicable.

It is important to note that no repackaging of any products (agro-chemical or lubricant) is done at this facility, neither is there an intention to facilitate such activity. All products stored on the premises remain in their original containers.

Table 1: Possible Environmental Impacts and mitigation measures

Environmental Component	Nature of Impact	Impact significance	Mitigation measures
Surface water	Oil spills from transporting and storage may result in oil and grease entering drainage system during rainfall events.	Insignificant, short-term, mitigable, localized	Concreted and banded bond storage areas. Containment area. Proper handling during transfer of Lubricants and spill kits in place for clean-up of immediate leakages/spills. Vehicle outfitted with spill kits
Storm water/sewage	Sediments/solid waste in storm water and sewage from sanitary facilities	Insignificant, short-term, mitigable, localized	Storm water drains with mesh/sieve preventing solid waste entering surface waters. Septic tanks for sewage.
Waste	Waste generated during Operation that are generally municipal/ domestic in nature.	Insignificant, mitigable	Recover and recycle as far as practical. Garbage receptacles placed at appropriate locations on site and covered. Regular collection and disposal by authorized disposal services for disposal Advance Solutions
Air Quality	Operation of generator will result in some amount of noise.	Localized, Short-term, mitigable, insignificant	Maintain appropriate working hours between 8am to 17:00 hrs. Generator adequately enclosed, and only operated during power outages.
Human Health and Safety	Potential for accidents and upset conditions related to worker's safety and health during operations.	Mitigable	Provide workers with training in the proper use and maintenance of equipment. Appropriate PPE and safety equipment. Proper housekeeping. First aid for all staff on the site. Emergency response plan. Fire extinguishers/ sand buckets

