

Project Description

Transportation of Hazardous Materials – Guyana

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Blue Water Shipping Guyana Inc. Background

1. Summary of Proposed Operation

As part of Blue Water Shipping expansion to support the growing oil and gas industry, BWS has embarked on the venture to Transport Oil and gas related cargo including hazardous materials for our client's. Hazardous Chemicals are transported in either sealed Intermediate Bulk Containers (IBC) totes, drums or sealed and certified ISO containers according to the chemical manufacturer's safety data sheets and Blue Water SOP for the Transportation and Storage of chemicals 30841-GY-HSE-SOP-0088.

A Journey Management procedure 30841-GY-HSE-PRO-0090 and JMP template 30841-0001-OPS-PLN-005 template was developed to guide the transportation aspect of the company's portfolio.

The lifetime of the Project is expected to be 100 years with a capital investment of GYS \$60.000,000 and an annual turnover of GYS \$45.000,000. Being a service based Project, there are no distinct phases of the Project. An average of 25 employees are involved in the transportation section of the operation. They include drivers, porters, brokers, and other logistics staff.

2. Site Description

BWS's warehouse is located at Tract 8 and Tract 9, Rome Georgetown, Guyana (6.776696, -58.146198). This area is zoned as commercial / industrial by the Central Housing and Planning Authority (CH&PA).

To the north, south and west of the facility are all parcels of land zoned for commercial/industrial use. The parcel of land to the east of the property are government owned lands. The property is situated on generally flat topography as common on the coastal region with predominantly clay soils. The facility was filled to a level that will mitigate the risk of flooding during rainy periods. Electrical utilities are sourced from Guyana Power and Light Inc. While water is sourced from Guyana Water Inc.

Figure 1 provides an overview of the property location.



Figure 1: BWS Facility Location

Since this application is focused on transportation service, the client's hazardous materials shall not be stored at BWS's facility, rather it will be moved from the port to the Client's facility using BWS's trucks and trailers.

3. Chemicals Typically Transported and Safety Measures

Blue Water Shipping Guyana aims to transport chemicals and hazardous nature for our existing clients. Cargo to be transported are Flammable Liquids, Flammable Corrosive Liquids and Non- Regulated Liquids. Table 1 outlines the chemicals typically transported by BWS.

Table 1: Types of Chemicals Typically Transported by BWS

Product	Description	Method of Transport
ASPH17544SP	Asphaltene Inhibitor	ISO Tanks
EMBR12491A	Emulsion Breaker	ISO Tanks
CORR16196SP	Corrosion Inhibitor	ISO Tanks
ACPC22005A	Xylene	ISO Tanks
MISC80052A	Methanol 97%	ISO Tanks
AFMR19017A	Antifoam	IBC Totes
7408	Chlorine Oxygen Scavenger	IBC Totes
BIOC16112A	Biocide	IBC Totes
PermaClean™ PC-11	Biocide	IBC Totes
PERMATREAT™ PC-191T	Reverse Osmosis Anti Scalant	IBC Totes
HW443	Hydraulic Fluid	IBC Totes
8852 PLUS	Water Treatment	IBC Totes
MISC17477A	Triethylene Glycol	IBC Totes
PC-77	Reverse Osmosis Cleaner	IBC Totes
PC-96	Alkaline Cleaner	IBC Totes
SCAL16542SP	Scale Inhibitor	IBC Totes
CLAR10112A	Water Clarifier	IBC Totes
CLAR16489A	Water Clarifier	IBC Totes
ACPC12261A	Asphaltene / Paraffins Control	IBC Totes
PARA16581SP	Paraffin Solvent	IBC Totes
CORR11008A	Corrosion Inhibitor	IBC Totes
OSCV07408A	Oxygen Scavenger	IBC Totes

The volume of chemicals and the types of chemicals transported is not fixed as it depends on the client's business. However, within the past weeks, approximately 10-15 totes are transported from the Port to Client each week, whilst 3-4 tanks were transported each week from Port to Client and empties returned.

4. Other Cargo Transported

In addition to chemicals transported, BWS's line of business includes the transportation of other cargo. Table 2 below outlines the other types of cargo transported by BWS.

Table 2: Other Cargo Transported by BWS

Product	Description	Approx. Quantity	Method of Transport
Pipes and Joints	Various sizes for multiple clients – can include OOG	260 weekly avg.	Truck and trailer
Containers	20ft & 40ft loaded and unloaded	65 weekly avg.	Truck and trailer
Baskets	Various sizes from client to ports	40 weekly avg.	Truck and trailer
Crates and Boxes	Various sizes wooden & steel crates	40 weekly avg.	Truck and trailer
Tanks	Tanks can be empty to full, from water to chemical	45 weekly avg.	Truck and trailer
Risers/Telescopic Joints/Mux Controls/BOP	Wide load/ Heavy loads / OOG	3 weekly avg.	Truck and trailer

5. Associated Documents

Table 3: List of Supporting Documents

Name	Number
Journey Management procedure	30841-GY-HSE-PRO-0090
Journey Management Plan Template	30841-0001-OPS-PLN-005
Transportation of chemicals	30841-GY-HSE-SOP-0088
Transportation of Chemicals Training	30841-GY-HSE-TRN-0089
Segregation of Chemicals	30841-GY-HSE-TOO-0091
Emergency Response Plan	30841-GY-HSE-TOO-0087

6. Training and Certification

The Department responsible for the transportation and shipment of Hazardous Chemicals have personnel specifically trained in the regulatory requirements including accredited training in IMDG, and IATA. Records of certificates and training plan available from HSSEQ.

Drivers, porters and warehouse personnel are complete internal training in Transportation, Storage and Spill response of Hazardous Materials. This includes:

- › The Pesticide and toxic chemicals act and regulations;
- › Transportation

- › Labelling;
- › Understanding Safety Data Sheets;
- › Understanding the Global Harmonized System of signs;
- › Personal Protective Equipment;
- › Emergency response and Spill response
- › Occupational Health and Safety and Environmental risks that associated with the transportation of chemicals.

7. Journey Management (JMP)

7.1. Scope

Blue Water operations generate the requirement for personnel and Contractors to travel and/or transport goods on private, public roads and remote areas of Guyana. This procedure applies to all vehicles used by Blue Water personnel, its Contractors, and third-party services in accordance with the operational requirements in Guyana.

7.2. Objectives

The purpose of this procedure is to:

- › Ensure that adequate actions and controls are taken to minimize risk and manage all road journeys.
- › Ensure driving operations and transportation of Goods and Cargo are performed in compliance with legal requirements, Blue Water shipping, and Client expectations.
- › Establish the content and requirement of Journey Management Plans (JMPs) particularly in areas identified as high risk.
- › Implement the requirements of the Blue Water Shipping Global Safe Driving Standard
- › Additional requirements that may apply to specific projects and third-party contractors operating areas will be set out in cargo specific JMP documents.
- › All non-compliances with this procedure shall be notified, investigated, and reported.

7.3. Target Audience

All drivers and porters whose job function requires that they drive a vehicle to conduct work on behalf of Blue Water, Our Policy is to work with third-parties, subcontractors, clients, regulatory authorities and local communities to develop a pro-active program with zero Road Traffic accidents as a target.

7.4. Responsibilities

Blue Water Shipping and third-party services performing activities associated with vehicle operations must ensure the following:

- › All activities of drivers are organized in accordance with the specific Guyana road safety requirements.
- › BWS and their subcontractors are following the driver's working and rest hours of as stipulated by the laws of Guyana.
- › Ensure professional competence of drivers, porters and other workers responsible for safely operating a vehicle including truck operations.
- › Investigate, analyse and eliminate causes of any job-related Road Traffic Incidents (RTI) and Road Traffic rules breaches.
- › Organize and conduct pre-trip medical checks for drivers as required.
- › Ensure First aid training is provided for personnel operating vehicles.

- › Ensure vehicles, truck and trailers are fit for purpose and in operating condition prior to commencement of journey.
- › Prevent drivers using vehicles if there are any technical malfunctions endangering road safety.

Forcing or any sort of encouragement of drivers for Road Traffic rules violations is strictly prohibited.

Blue Water shall establish additional controls to ensure all risks associated with the transport of cargo and hazardous chemicals are mitigated.

Department Managers:

This person is available for contact 24 hours a day to deal with transport related incidents and are responsible for ensuring that all driving operations are carried out in accordance with the requirements of this procedure and local and international legislative requirements. They must ensure that Risk Assessments are completed to ensure all related hazards are identified and controls in place, and that Journey Management Plans are produced and approved wherever necessary. They are also responsible for ensuring that all hazards, risks and control measures are communicated to all relevant workers and the appropriate controls are used and maintained.

Journey Manager:

Responsible for the overall management of road transport activities in line with this procedure and is appointed to plan and monitor business journeys of cargo and hazardous chemical transportation. The Journey Manager is in charge for JMP's approval and is available for contact 24 hours a day in case of emergency.

Ensures that drivers are fully aware of the Journey Management Plan content prior to any journey commencing. Ensures standard safety control measures of vehicles and drivers are in place and performed on daily bases by qualified and authorized personnel. These standard safety measures must comply with local and internal legislative requirements. Journey Manager is also responsible for initiating emergency response if required.

HSSEQ:

Responsible for reviewing and updating this procedure inline with legislative requirements, and for providing information, guidance, and training as required. Conduct JMP review and assist in identifying additional controls to address associated hazards and risks.

Complete Supplier evaluations on third-party services to ensure compliance with Blue Water minimum standards and legislative requirements prior to approving transportation services. Once an approved transportation contractor HSSEQ and/or the transport coordinator shall conduct internal driver check, vehicle inspections and audits to ensure ongoing compliance.

Third- party

Ensure vehicles, trucks, trailers and other associated plant and machinery are inspected and maintained in accordance with national requirements and are in roadworthy at the beginning of each day.

Transport Coordinator:

Responsible to ensure documentation is in order and recorded in accordance with local and international legislative requirements and Blue Water process, including Cargo information, packing list, vehicle signage, waybill, SDS, JMP and vehicle inspection completed and are issued to a driver. Ensure that drivers are fit for work and conduct toolbox is conducted in regards to JMP with the drivers and porters.

Driver:

Responsible for safe operations of his/her vehicle and complying with the JMP and legislative requirements.

Drivers are responsible for ensuring rest periods and call-in times are carried out and that any deviation from the Journey Management Plan has been approved by the Journey Manger or HSSEQ.

7.5. Journey Planning

Assignment of Equipment and Personnel

Appropriate equipment and qualified personnel shall be assigned. The selection is not only a function of technical specifications for the requested service but shall also take into account any special considerations for the journey (physical limitations or fitness, weather, terrain etc.); i.e. whether special equipment is to be used or not. The supervisor shall verify that the assigned driver holds a current certification for that particular vehicle type. All company vehicles will go through a Vehicle inspection before commencing daily operations.

Journey Management Plan (JMP)

Transport Coordinators, Journey Manager with the support of HSSEQ personnel shall ensure that a formal pre-journey toolbox to discuss the requirements of the JMP is held involving all stakeholders including supervisor, driver and porter.

- › Ensure the JMP is clearly understood including the defined route, planned stops, emergency response and reporting requirements.
- › The location/s of the nearest Police Station and hospital.
- › Potential driving hazards, overhead structures, dangerous corners, roadway, blind spots, and intersections are identified, taking into consideration the terrain, weather, known dangerous routes and speed limits etc.
- › Appropriate vehicles are assigned to the journey with consideration to any enroute hazards, the Cargo including load weight, dimension and substance (as applicable)
- › Ensure only qualified drivers are assigned and their licence is current for the type of vehicles to be used.
- › Vehicles are inspected using an appropriate checklist before the journey begins.

Vehicle Safety Equipment

All transportation vehicles shall be maintained in roadworthy condition and equipped with seat belts and wherever possible, company vehicles shall be equipped with ABS and dual airbags.

All trucks transporting hazardous chemicals shall carry the following:

- › First Aid kit;
- › Fire Extinguisher;
- › Portable Spill kit; and
- › Signage appropriate to cargo or substance.

Accidents

All accidents and incidents shall be reported to the relevant authority by the Journey manager and shall ensure all incidents involving people and the transportation of cargo are investigated in accordance with Blue Water policies and procedure. Lessons learnt from all accident/ incident or near miss shall be communicated throughout the organization as shared learning's to prevent recurrence.

It is the responsibility of the driver to report any incident to the direct Supervisor and the Journey Manager. All drivers must be instructed on the process of incidents reporting and what to do in the event of an incident.

7.6. Driver Requirements

Driver Selection

Personnel operating vehicles will be selected using defined criteria to ensure they are suitable and fit for work. All prospective drivers are to be interviewed and skill-assessed to validate experience, and applicable licences and qualifications. Only drivers having appropriate qualification (for the type of vehicle) and medical physical examination are authorized to drive Blue Water owned/leased vehicles. Drivers must be medically fit to perform driving duties. Where possible, driving records of personnel should be checked with the previous employer and/or police prior to employment.

Driver's Age

A professional driver shall be at minimum 21 years of age. Drivers must have at least two years driving experience for light vehicles, and no less than three years of uninterrupted driving experience for heavy vehicle operations (same vehicle type).

Defensive Driving Training

All personnel and contractors that operate vehicles shall have attended a NCA approved Defensive Driving Training, appropriate for the type of vehicle and work they are required to carry out. Personnel operating vehicles shall complete refreshers periodically.

Transport Documentation

To operate a vehicle in Guyana, all Blue Water and contract drivers are required to possess a legal driver's license specific for the type of vehicle they are required to operate and vehicle registration documents:

- › License for hazardous goods transportation (if applicable)
- › Driver's License
- › Vehicle Registration
- › Insurance Certificate
- › Daily vehicle pre-trip inspection
- › Defensive Driving Training

Driver Fitness and Welfare

Each driver shall pass the pre-employment and periodical medical checks. Contractors are requested to make all required arrangements with regards to Road Safety to be in full compliance with legislative requirements.

A driver shall be reassessed following prolonged absence, illness and or injury to ensure driver is deemed to fit to work by a qualified medical doctor.

Alcohol, Drug, and Substance Abuse

Blue Water Shipping has a Zero tolerance with regards to drug and alcohol use and it is a requirement to present to work in a fit state, no driver shall operate a vehicle while under the influence of alcohol, drugs. Any medication that may affect concentration and/or driving ability, shall be reported to management, regarding the potential side effects from the medication he/she is taking, A Medical review will be conducted prior to driver operating any vehicle or machinery.

The blood alcohol content of a worker is to be 0.00% and have no illicit drugs in their system.

Working Hours

Normal working hours, driver shall perform his/her duties in accordance with the employment contract.

The following guidelines are for workers outside normal working hours:

- › No driver shall work more than 12 hours in a single shift.
- › There should be no more than 10 hours spent driving within the 12-hour shift.
- › If travel time is more than 12 hours, there should be 2 drivers in a vehicle.
- › A minimum of one-hour total break periods shall be taken for each 4 hours spent driving. A driver shall not drive continuously for more than three hours.
- › Rest stops shall be planned and observed every three hours.
- › When off-duty drivers shall take a minimum 12-hour uninterrupted rest

Monitoring Driving Performance

Drivers must comply with legislative requirements, Blue Water procedures and any requirements set out by the client facility.

Department Managers review the driving record of the worker prior to the assignment to transport cargo. Vehicle assignment shall be denied if the workers driving record indicates one of the following:

1. Three or more preventable vehicle incidents within a 12-month period.
2. Five or more preventable vehicle incidents within a 36-month period (unless regulatory requirements are more stringent).
3. Drivers assigned a company vehicle are subject to a motor vehicle record check on an annual basis.

7.7. Vehicles

All vehicles used for Blue Water Shipping Operations shall be fit-for-purpose, and in roadworthy condition and equipped for the job being undertaken. Blue Water and third-party vehicle procurement processes shall ensure that vehicles are assessed and fit for purpose prior to procurement.

Where possible, vehicles should be purchased that have a low rollover propensity. It is recommended that vehicles are fitted with Anti-lock Braking Systems (ABS) and active vehicle control as the most effective crash avoidance systems.

Vehicles operating under Blue Water contract shall be suitable for operation in local climatic conditions and comply with the following requirements:

- › There should be no modification made to any vehicle without endorsement from the vehicle manufacturer, or the custodian of this specification.
- › Heavy Vehicles are fitted with side under-run protection and equipped with steps and grab handles to enable easy access into the cab for driver and passenger.

Tires

Tires (including spares if full size) are to be the same type, profile and tread pattern, except when the vehicle or tyre manufacturer recommends a different type for certain axles. Tyres to be radial, with a minimum tread depth of 2.0 mm across 75% of the tyre width and tread-pattern visible across 100% of the tyre. Vehicles to be fitted with a spare wheel and carry appropriate tire changing equipment to safely change a wheel.

Seatbelts

Vehicles to be fitted with a three-point seatbelt for the driver and all passengers unless fitted with a centre lap belt for the rear middle passenger.

Drivers and passengers shall always wear seat belts. It is the driver's responsibility to ensure and oversee that all passengers are correctly seated and wearing their seat belts before start moving the vehicle. Drivers shall refuse to transport passengers who will not use seat belts. Equally passengers shall refuse to travel with a driver who does not properly wear his/her seat belt. Passengers shall refuse to travel in a vehicle where seat belts are faulty or not installed.

Seats

Driver's seat to be independently adjustable with a minimum of forward and rearward adjustment. The seat and the seat back shall be free of damage and ragged or sharp edges. Seats to be fitted with headrests.

In-cab

The cabin doors and motor hood shall have fit restraint devices. The floor in the cabin and in the body of the truck shall be covered by a special carpet. The in-cab must be fitted with a serviceable air conditioning/heating system that is able to maintain an in- cab temperature range under all local climatic and driving conditions. Legal required signs, stickers or labels to be fitted in such a manner that they do not obstruct the driver's vision or impede the driver's use of any controls.

Ornamental fittings mounted or hung inside the cab shall not be permitted. Full Tinted films are not allowed on the main part of the windscreen. Minimum Visible Light Transmission (VLT) of the wind-screen shall be 75%.

Non-slip pedal pads to be fitted for brake, clutch and accelerator pedals. All vehicle door locking systems shall have an override in order that occupants can open the doors after the vehicle has been locked externally.

Mirrors

It is recommended that vehicles are fitted with adjustable left, right and central rear-view mirrors. Heavy Trucks convex mirrors to be fitted for blind spots.

Lights

All vehicles to have four-way hazard lights, turn signals and conventional brake lights.

Braking

A dual circuit brake system with a dual airline for heavy trucks that pull a trailer. One circuit shall operate at the secondary brake system in case a component of the dual system fails. All braking systems to be fail- safe.

Airbags

Light vehicles to be equipped with airbags for both the driver and front seat passenger; side airbags to be considered as an additional recommendation.

Towing

Front and rear towing eye/hooks for vehicle recovery that are rated for this purpose.

Reversing Alarms

Vehicles shall be fitted with an audible reversing alarm. Where these alarms are not fitted, a guide is required to direct the driver when reversing the vehicle.

7.8. Emergency Equipment

With an in-cab fire extinguisher of multipurpose dry equipment powder with a capacity of >2 kg. The fire extinguisher to be securely mounted and located so that it is easily accessible in an emergency.

Trucks to be fitted with an external fire extinguisher that is compatible with the load that the vehicle is carrying. Every vehicle must be equipped with the following emergency equipment:

- > First aid kit
- > Emergency triangle
- > Tow rope
- > 2 high visibility vests (if the driver is required to leave the vehicle during hours of darkness or when changing a tire etc)
- > Spare Tire
- > Wheel blocks
- > Tool kit
- > Emergency telephone numbers
- > Mobile or satellite telephone
- > Road maps
- > Minimum PPE
- > Portable Spill response equipment

7.9. Maintenance

Blue Water and third-party contractors are obliged:

- > To operate vehicles registered by bodies of the State Traffic Inspection, which have had state technical inspection in due course and have a license card of a standard pattern.
- > To observe maintenance schedules for vehicles, instructions of manufacturers for vehicles operation, to provide conformity of technical condition and equipment of the vehicles participating in traffic to established safety requirements, to provide maintenance operations and repair of vehicles in manner and time defined by current normative documents.
- > To provide daily inspections of vehicle and associated equipment condition departure and after arrival to the station
- > Personnel responsible for the vehicles condition are obliged to take notes about technical serviceability of vehicles in the waybill.
- > To provide maintenance schedule and record of repairs to vehicles, trailers, mobile plant and machinery
- > To provide vehicles for transportation, including specialized, applicable with a type of cargo to be transported and volume of load
- > To provide protection of vehicles to eliminate possibility of their unauthorized use by the drivers of the organization or other people or damaging of vehicles.

Types of vehicle maintenance operations

It is vehicle owners (renters) direct responsibility to ensure the vehicle is in roadworthy condition, inspected and maintained in accordance with the legislative requirements, manufacture, and Blue Water requirements.

Vehicle inspection and maintenance shall be performed by licensed and authorized staff in time and in accordance with legal requirements..

Maintenance is to be scheduled and completed based on either hour of operation or mileage which ever meets manufacturer's recommended vehicle maintenance schedules.

Faults and conditions at which operation of vehicles is prohibited

No vehicle or associated equipment is to be operated if any of the following components require repairs.

- › Braking system
- › Steering system
- › External light devices
- › Windshield wipers and windshield washers
- › Wheels and tires
- › Engine
- › Other elements of design

Speed Limit

*Each driver shall drive in accordance to present road/weather conditions even when speed limit signs allow driving faster.

When speed limits are unknown, or there is missing or limited signage on the road, drivers shall comply with the following speed limit requirements:

- › Inside City limits – 60 km/hr
- › Outside City limits – up to 90 km/hr on blacktop roads.
- › On client site – 20 km/hr, inside of process facilities 10 km/hr

No Smoking Policy

Smoking is strictly prohibited in a Blue Water owned or leased vehicles.

Mobile Telephones

The use of mobile phones (including two-way radios either hand-held or hands-free mode) by drivers when vehicle is in motion is strictly forbidden. This includes receiving incoming calls. The driver is required to find a safe place to stop to receive and make calls.

Inclement Road/Weather Conditions

Road Journeys may be delayed or cancelled if road/weather conditions are poor – fog, rain, dust, floods, etc.

Driving During Darkness

Delivering high-risk (OOG) cargo at night is the preferred option, reducing the risk of transport due to the reduced congestion on the roadways improves manoeuvrability of commercial truck and trailers.

Parking and Stops

The vehicle shall be parked in a way it is not causing any obstruction to any other road users or pedestrians. All the Blue Water and third-party vehicles are to be correctly parked at all times, making all attempts to ensure the first move of the vehicle is forward and driving in reverse is not necessary.

Vehicles should be reverse parked wherever possible, to allow for a forward driving exit. Heavy Vehicles shall not be parked in residential areas. Vehicle shall be parked in a safe and permitted area. Before the driver leaves the vehicle, he/she should render it and the load as safe, against theft or interference. When stopping the vehicle, the following actions shall be applied to prevent the self-motion of the vehicle:

- › For manual transmission the gear lever shall be placed in first gear
- › Automatic transmission placed in park.
- › The engine is turned off.

- › Handbrake is applied after the vehicle is stopped.

Refuelling

To avoid any fire incident or accident it is strictly prohibited to refuel vehicles near open fires, naked lights, electric heaters, or any sources of ignition. Loading and unloading of highly flammable goods should not take place during a thunderstorm.

Breakdowns

In the event of a breakdown, the Journey Manager or HSSEQ must be informed. In such cases, the driver must place the emergency triangle to warn approaching vehicles and stay with the vehicle where it is safe to do so, to warn others of any possible hazards and to be available when the breakdown or emergency service arrives.

Transportation of Loads and Loose Items

The driver is solely responsible for the loading of the vehicle. Loose Cargo or baggage is only to be carried in the designated cargo area of the vehicle and must be segregated and restrained from interfering with the driver and passengers. If personal belongings are to be carried within the passenger compartment, then they must be placed and secured to prevent any movement.

Where air bags are fitted passengers should refrain from carrying items, such as laptops on their laps as these may cause further injury if the airbag is activated.

Unauthorized Passengers or Loads

Transportation of unauthorized persons, loads or animals is prohibited. Under no circumstances must a vehicle be moved with a person standing on the loading bed.

7.10. Compliance with PTCCB Regulations

Inform the registrar, police and fire services of the type and amount if transporting 100 kilograms or 100 litres or more of toxic chemical by air, land or water and the time, route, destination, and vehicle(s)/vessel(s) number before commencing transportation.

According to the Pesticides and Toxic Chemicals Regulations, No. 8 of 2004, "toxic chemical" means any disinfectant, or any other substance known to be poisonous, corrosive, irritating, capable of causing a sensitive reaction or harmful to man or animal that is used in agriculture, the arts, commerce or industry, or for any domestic or other purpose, other than any antiseptic, drug or pesticide. "

Shipments shall be labelled as per IMDG regulations and GHS standards.



Figure 2: Example of Label

7.11. Transport Route

Examples of JMP materials are loaded from Guyana Shore Base Inc.'s Annex Plot 7 which is located at Mc Doom East Bank Demerara (latitude 6.78094° or 6° 46' 51" north; Longitude. -58.16556° or 58° 9' 56" west). The materials are then transported to G-Port, which is located on Bentick Street, Georgetown. The Journey Management Procedure attached to this submission provides additional details. Figure 3 below shows the trucking route.

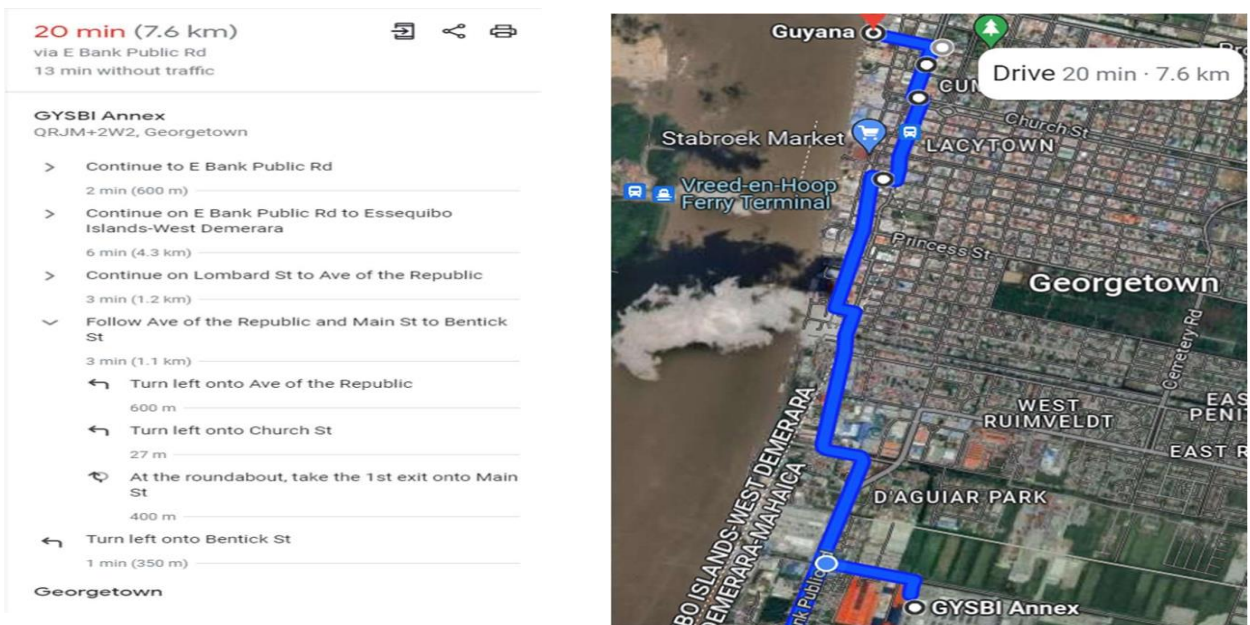


Figure 3: Trucking Route

8. Types of Trailers and Trucks

BWS utilises trucks of various types to transport materials to and from clients. The Table 4 below outlines the types of trucks, quantities, truck description and capacity. Table 5 follows with the types of trucks used.

Table 4: Quantities and Description of BWS Trailers

Trailer Type	Quantity	License Plate No.	Manufacturer	Chassis No.	Year	Weight Capacity
20FT Trailers	7	TZZ 9827	STRICK	1S12SC234XB731793	1999	30 Tons Each
		TZZ 9829	HERCULES	1DNC402S3DM014052	2006	
		TZZ 9830	CHEETAH	5EF2SC2314B759882	2004	
		TZZ 9831	HERCULES	80271	2006	
		TZZ 9832	HERCULES	CB791436	2006	
		TYY 9927	(Awaiting Information)	(Awaiting Information)		
		TYY 9907	(Awaiting Information)	(Awaiting Information)		
40FT Trailers	9	TAG 4096	TITAN	LA99P334XP2LXY493	2023	40 Tons Each
		TAG 4027	TITAN	LA99P334XP2LXY495	2023	
		TAG 4042	TITAN	LA99P334XP2LXY494	2023	
		TAF 9963	TITAN	LA99P334XP2LXY362	2023	
		TAF 9964	TITAN	LA99P334XP2LXY363	2023	
		TAC 4746	SHANDONG TITAN	LA99P334XN2LXY004	2022	
		TAC 4757	SHANDONG TITAN	9403	2022	
		TYY 8904	LOCALLY BUILT	LRPS1915	2018	
		TYY 4514	SHANDONG CHENGDA	LA99FRJ34K0SCD995	2019	
		TAD 9607	SHANDONG TITAN	9403	2023	
		TAD 9606	SHANDONG TITAN	9403	2023	
		TYY 6011	LOCALLY BUILT	LRPS1889	2020	
		TYY 7933	HAMMAR MASKIN	SDCPL45B3AGA77026	2008	
		TXX 7098	DENNISON	17469	2019	

Drop Deck Trailers and Lowboy	5	TAD 5743	KING	SKMGTS44Z5KNG9972	2005	Drop Deck - 25 Tons Low Boy - 20 Tons
		TAE 973	ANDOVER	SA933041U60850072	2013	
		TYY 5216	FONTAINE	13N64820683530036	2008	
		TAC 4735	M&G	36093	2008	
		TAF 1948	DENNISON	SGKDM25PB7LO19674	2007	
Extendable Trailers	4	TAD 6214	FONTAINE	13N4452C331516423	2023	40 Tons
		TAD 6213	GREAT DANE	1GRDM9024XM030302	2013	40 Tons
		TAD 599	FAYMONVILLE	YAFTL809000009032	2009	8 Axle - 115 Tons
		TAD 598	GOLD HOFER	WGOSTZD4880030285	2003	4 Axle - 50 Tons
Sidelifters	2	TZZ 3314	STEELBRO NEW	7ASSS14338A4C8334	2008	36 Tons
		TAF 5589	STEELBRO NEW	6LNHP25CNPAHP0213	2023	45 Tons

Table 5: Trucks used by BWS

Truck	Manufacturer	Chassis #	Horsepower/ Engine Capacity	Year
GAC 4681	MAN	WMA24XZZ7CW166799	12419	2011
GAC 4722	DAF	XLRTG47MS0G007174	12902	2013
GAD 263 (HIAB)	DAF	XLRAE55GF0L343723	10000	2008
GAD 1178	DAF	XLRTG47MS0G003459	12902	2013
GXX 6834	DAF	XLRTG85MC0E931742	12900	2011
GXX 8907	DAF	XLRTG85MCOE830451	410	2008
GYG 2695	DAF	XLRTG85MC0E950454	12900	2012
GYG 5559	DAF	XLRTG85MC0E902510	460	2011
GYG 7773	DAF	XLRTG85MC0E865410	410	2009
GZZ 1767	DAF	XLRTGM4300G044649	460	2014
GZZ 8663	DAF	XLRTG85MC0E991926	5900	2013
GAF 5384	DAF	XLRTGH4300G102222	12902	2016
GAF 5385	DAF	XLRTGH4300G102225	12902	2016

GAE 975	DAF	XLRTG47MS0E994758	240	2013
GAE 1297	DAF	XLRTG47MS0E995702	12902	2013
GAE 1021	DAF	XLRTG47MS0E994745	12902	2013
GAD 5844	DAF	XLRTGM4300G045472	12902	2014
GAD 5845	DAF	XLRTT48MS0E982341	12902	2013
GAE 9098	DAF	XLRTGH5MC0E996598	12902	2013
GAE 9116	DAF	XLRTGH4300G020538	12900	2014
GAF 6757 (HIAB)	DAF	XLRAE55CF0L256598	220	2004
GAF 9138	DAF	XLRTGM4300G069381	12902	2015
GAD 9140	DAF	XLRTGM4300G099060	12902	2015
GAF 9374 (CANTER)	ISUZU	JAANPR75HE7101177	5193	2014

9. Health, Safety and Environment

Blue Water Shipping manage the health, safety and environmental potential impact of its activities, by using risk assessments, safe operating procedures, the development and training of workers in safe work activities associated with the movement of clients' cargo including loading, off-loading, transportation, shipment of general cargo, hazardous chemicals and high-risk cargo movements.

Blue Water provides its workers with the following mandatory Personal Protective Equipment (PPE) including high visibility clothing, hard hat, safety glasses and safety boots.

Specialised PPE for chemical requirements is identified through the appropriate SDS and risk assessment, this includes but not limited to gloves, face shields aprons etc.

Effective reporting and review of relevant Health, safety, environment, security, and quality is critical to the effective ongoing operation of the business and continuous improvement.

BWS =conducts applicable Risk assessments detailing applicable control measures appropriate to scopes of work. Risk Assessments are conducted in consultation and communicated to all workers involved in the activities including third-party services.

9.1. Safety Measures

All of the trucks used to transport such chemicals are properly labelled with the correct signage such as "Classification triangle" and "Hazardous Chemicals".

The containers being transported are labelled appropriately according to the Global Harmonized System of classification and labelling; portable spill kits are available on trucks used in transport of hazardous chemicals. The ISO containers used are made with built in secondary containment with its stainless-steel construction, 3 inches flame retardant insulation and an outer aluminium shell. Further, these tanks are transported in their built-in protective frames, pressure valves and internal safety shut-off valves.

9.2. Waste Management

Domestic wastes will be reduced, recycled, and reused where practicable, with the remainder being disposed of using a qualified and licenced waste transport company – Puran Brother's Disposal Service. These types of non-hazardous wastes include domestic waste, office wate, packaging waste and wood from damaged pallets. These materials will be disposed of by the contractor at the Haags Bosch Sanitary Landfill, the only engineered sanitary landfill in Guyana.

Hazardous waste in the event of spill shall be disposed of as required by legislative requirements through ETS Services.

9.3. Noise Emissions

Noise emissions from the operation of this facility are expected to be generated from the following key sources:

- > Forklift
- > Trucks
- > Telehandler

It is anticipated that the noise generated will be insignificant and below the Guyana National Bureau Limits for commercial operations during the day and night (80 dBA and 65dBA). Mitigation measures to reduce the adverse effects of noise shall include the following.

- Workers in noisy areas will be mandated to use the necessary PPE such as earmuffs and ear plugs.

- Noisy activities shall be restricted to the GNBS noise limits for daytime and night-time operations.
- The use of all trucks will be planned to ensure that are in use only when required.
- Regular maintenance of trucks and trailers shall be done to ensure effective working conditions.
- Appropriate equipment shall be used for its intended purpose and for the required job
- Trucks shall be switched off when not in use to prevent unnecessary noise.

9.4. Air Emissions

Air emissions from the operation of this facility are expected to be generated from the following sources:

- > Forklift
- > Trucks
- > Telehandler

It is anticipated that the emissions that will be generated from the exhaust and particulate matter that will be disturbed from the movement of vehicles, will be insignificant and below the World Health Organisation guideline limits. The following mitigation measures shall be taken to reduce the impacts of air emissions.

- Trucks shall be turned off when not in use to reduce exhaust emissions.
- Vehicles and equipment operating in the compounds should be required to keep within the speed limit of 5-10 km/h for safety purposes and to prevent the dust emissions.
- Site contingency and emergency response plan in place to prevent fires and subsequent emissions.
- All operation workers shall use their PPE, specifically their appropriate masks when operating in dusty conditions during loading or transportation of materials.

9.5. Water Quality

Water quality is not expected to be affected by this transportation operation unless an accident occurs and there is a spill in a water body. Should there be an accident that results in a spill to water bodies, immediate action shall be taken by BWS. Though unlikely, in such an event, the EPA will be engaged immediately, and a private hazardous waste management firm will be employed to handle the spill clean-up efforts on behalf of BWS. BWS will ensure that the Environmental Protection (Water Quality) Regulations of 2000 is strictly adhered to.

In an effort to prevent any spillage that may affect water quality, the following mitigation measures shall be implemented:

- The industry standard containers shall be used to transport hazardous materials. These, include liquid-sealed Intermediate Bulk Containers (IBC) totes and Sealed ISO containers. These are equipped with protective frames, pressure safety valves, internal safety shut-off valve with redundancy and goes through regular inspections (2.5 years) to ensure their integrity are not compromised.
- The directions on the safety data sheets shall be strictly followed during transport to prevent any accidents or spillage.
- Trucks shall be inspected before each transport journey to ensure that they are not in any way compromised.
- Materials will not be transported on damaged or inadequately secured racks.

- Drivers will be restricted to the road's speed limit and in the absence of speed limits, an inside city speed limit of 60km/hr and an outside city speed limit of 90 km/hr shall be followed to ensure safety delivery of hazardous materials.
- All trucks shall be monitored and maintained to prevent leakages of fuel or oils. In the case of any leakages, drip pans and spill kits shall be used to collect fluids until corrective actions are taken.

9.6. Land and Soil

Land and soil quality are not expected to be affected by this service type unless there is an accident that results in a spill on land. Such a spill can contaminate the soil and can affect micro-organisms that dwell in the soil. To mitigate such impacts, the following measures will be put in place to prevent a spill and to clean up.

- Due diligence shall be done to ensure all containers are sealed, properly placed, and fixed onto the trucks before leaving the site.
- In the event of a spill during transportation, an immediate spill clean-up campaign should be launched as the emergency response procedure.
- Any soil contaminated shall be immediately excavated to prevent leaching.
- Soil remediation efforts shall be put into place as per the emergency response procedure.
- A contracted 3rd Party Incident Response Service (ETS) shall be employed to provide clean up services if needed.

11. Certificate of Incorporation and Name Change Document

FORM 1

COMPANIES ACT, 1991
(SECTION 5)

ARTICLES OF INCORPORATION
OF

BLUE WATER SHIPPING GUYANA INC.

51349405
 800
 700
 0.1500
 23-11-2023

(AMENDED PURSUANT TO A SPECIAL RESOLUTION DULY PASSED ON 23 NOVEMBER 2023)

- | | | |
|----|--|--------------------------|
| 1. | NAME OF COMPANY | COMPANY NO. |
| | BLUE WATER SHIPPING GUYANA INC. | 8349 |
| 2. | CLASSES AND ANY MAXIMUM NUMBER OF SHARES | |
| | TEN THOUSAND (10,000) ORDINARY SHARES AT A MINIMUM ISSUE PRICE OF ONE DOLLAR (\$1) EACH. | |
| 3. | RESTRICTIONS ON SHARE TRANSFERS | |
| | SHARES SUBJECT TO TRANSFER MUST FIRST BE OFFERED TO EXISTING SHAREHOLDERS. IF NO EXISTING SHAREHOLDER WISHES TO ACQUIRE THE SHARES TO BE TRANSFERRED THEN A THIRD PARTY MAY ACQUIRE THE SHARES AT THE SAME PRICE OFFERED TO THE EXISTING SHAREHOLDERS. | |
| 4. | NUMBER OF DIRECTORS | |
| | NO LESS THAN AND NO MORE THAN FOUR DIRECTORS | |
| 5. | RESTRICTIONS ON BUSINESS THE COMPANY MAY CARRY ON | |
| | NONE | |
| 6. | OTHER PROVISIONS IF ANY | |
| | THE PROVISIONS AS SET OUT IN THE BY LAWS SET OUT IN SCHEDULE "A" | |
| 7. | DIRECTOR | SIGNATURE |
| | Jennifer Falconer | <i>Jennifer Falconer</i> |
| | | DATED |
| | | 23 NOVEMBER 2023 |



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