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Subject Goods Transportation Safety Standard

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Objectives and Usage

The Goods Transportation Safety Standards aim at facilitating and applying SCG Safety Framework which is served as guideline foundation for the Management of Occupational Health and Safety and Environment for all companies in SCG with the following essences:

- 1. To elevate the procedures for Goods Transportation Safety on the road that take account of the significance and risks to have impact on internal and external of SCG through the risk management indicator for personnel, vehicles, and transporting routes.
- 2. To provide prevention guidelines and best practices to mitigate any potential incidents or transport accidents. This Goods Transportation Safety Standard is deemed appropriate to be implemented in all industries.
- 3. To explain and demonstrate the measures being taken to ensure safety during transport. The users of these standards must be aware of the regular development of practices and transport controlling equipment. The standards shall not limit or restrict any future measures or gear that help facilitate the safe transport.
- 4. To cover the enforcement of these standards on all parties in the organization (employee and business partner) to ensure the safety of employee under a unified standard. The mutual responsibilities should be taken charge to be certain that all employees are complied with law or SCG standards, the stricter one is to be followed.
- 5. To enforce in all areas and businesses of SCG including the subsidiaries or joint venturing companies that The Siam Cement Public Company Limited has management power regardless of types, sizes and products.
- 6. To be put in immediate force at the new established factories or enterprises. For the existing factories or offices associated with area or working space expansion must comply with not only the Management of Change procedures but also with this stipulated standard.

7. Exception

In case of necessity where the existing corporations or offices or newly acquired companies are unable to comply with these standards due to the nature of organizational structure or type of products, such companies may be granted exception or allowed other appropriate measures not being in alignment with the standards but under recommendation of the experts from SD Office.

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Definition

These below definitions are generally used to explain topic, heading, or terminology that are used in relation to the Office of Occupational Health and Safety and Environment. The additional details could be searched through related document. Any person who needs to create the new definitions is required to complete the registration. The objective of these provided definitions is to be used in the document system of the Office of Occupational Health and Safety and Environment of SCG.

The following list of vocabularies will appear in this document. Apart from the provided words, you can look up the definitions from the document "List of Vocabularies and Definitions used in the field of Occupational Health and Safety and Environment"

Topic/Subject/Terminology	Definition/Explanation	
Contract Owner	Companies or departments in SCG that use carrier services,	
	regardless of whether the contract owner is the goods owner	
Contract Owner Representative	Companies or departments that the contract owner assign to	
	represent them in handling goods transportation	
Carrier	Carrier under SCG's management (with and without SCG brand logo)	
	as well as those not being under SCG management but having SCG	
	brand logo on the truck (including a Franchise/Agent as agreed in	
	the SDC Meeting No. 2/2011) which cover a routine and a non-	
	routine transport contractor or a spot hire	
Driver	Driver of carrier is the individual who the carrier assigns to deliver	
	goods to the contract owner	
Transportation Emergency	The occurring incident during goods transportation that the	
	driver requires urgent assistance to prevent the critical impact	
	that might follow	
Goods	The finished goods of the companies in SCG to be delivered to	
	the customers, of which involve the following:	
	1. Goods being manufactured by SCG	
	2. Goods being purchased for sale	
	3. Goods being manufactured by external suppliers and sale as	
	SCG products including machines and equipment used for goods	
	transportation	
	Note: each transportation may be the goods of one company and	
	materials of other company.	
Global Positioning System (GPS)	The recording device of vehicles routing means the device that	
	records and transmits data on the vehicles using Global	
	Positioning System technology	

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Hazardous Substance	Hazardous substance under responsibilities of the Department of Industrial Works announced by the Ministry of Industry		
Truck	Truck being used for transporting goods to the clients or places specified by the contract owner		
Spot Hiring	Temporary use of service of carrier (without contract). Occasional use of service due to immediate necessity, discontinuous or regularly scheduled operation such as having the urgency or abrupt change of service requirement or being unable to use service from the regular carrier with the successive service period of no longer than 3 months		
Shuttle	The use of service of regular carrier (with contract). Having scheduled transportation of goods between two regular places with the successive service period of longer than 3 months		

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Policy

SCG has established controlling policies on driving and goods transportation for the safety of employees and goods including the prevention of accidents which may cause critical impact on environment and/or lives and properties of organization and communities. The policy provides coverage for employee shuttle bus (executive car, dealer car, bus, van, and company's service vehicle).

Scope

Implementation

Implementation of these standards will cover the transportation described below

- 1. To enforce in all business units of SCG including business of subsidiaries or joint venturing companies which The Siam Cement Public Company Limited has controlling power
- 2. To apply with goods transportation on the road from manufacturing factory or warehouse to customers, and from manufacturing factory or warehouse to warehouse or domestic port for staging goods
- 3. To use with contract carriers
- 4. To use with the following trucks
 - · Truck loaded with goods that the ownership right belongs to SCG, such goods not being transferred
 - Truck having SCG brand logo, even without SCG goods on the truck
 - Special type of truck or goods, obligated to be provided to SCG only, subject to business specification such as CPAC cement truck and PVC powder transport truck
 - Shuttle

Exception

The standard does <u>not</u> enforce when the following cases occur. If any company intends to administer otherwise, the separated management methods and practices can be set forth.

- 1. Empty Backhaul with no SCG goods on the truck
- 2. The <u>receipt</u> of goods being procured for sale or goods being manufactured by external suppliers
- 3. Goods pick-up by customers
- 4. When the trucks are in the areas responsible by the company's or the customer, do comply with the safety rules set forth by the area owners
- 5. Package delivery by Courier Services
- 6. Spot Hiring that the company must stipulate the separated controlling measures
- 7. Trucks misrouted from the route specified by the company for personal benefit or during robbery

Note: Each business unit may implement the requirements and procedures specified in these standards to manage other types of transportation such as raw materials or work-in-process materials.

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Responsibility

Preface

For the clarity of compliance procedures associated with these standards, roles and responsibilities of related parties are established as follows:

Roles	Responsibilities
Business Leader	1. To consider the compliance of these standards procedures as
(MD/DMD)	direct responsibilities and significant measures in a managerial
	performance evaluation.
	2. To ensure that every plants and companies implementing these
	standards
	3. To ensure that there are enough resources for the company to
	implement and support the transportation safety measures
	4. To ensure that management system for transportation safety
	has been evaluated the compliances with SCG regulations and
	national laws
Site / Plant Managers	1. To ensure that there are appropriate procedures in place to
	operate and simultaneously be implemented in every
	plant/office
	2. To periodically review and evaluate transportation safety to
	ensure the compliance with SCG regulations and national laws
	3. To ensure that plants/offices comply with specified standards
	4. To organize the seminar regarding transportation safety
	standards for employee appropriate to their roles and
	responsibilities
	5. To provide and keep the updated version of the list of qualified
	carriers pursuant to safety standards for transportation
	6. To review and assess transportation hazards and operating
	results in order to periodically control hazards as specified in
	the standards
	7. To assign a person to prepare documents and oversee the list
	of authorized personnel to certify and approve the use of
	carriers' services

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Manager & Supervisor	1. To evaluate the necessity and alternatives for transportation
	2. To be responsible for all procedures for selection of appropriate
	carriers and operations pursuant to SCG regulations
	3. To own the evaluation procedures, criteria for determining
	qualifications and participation in pre-selection and evaluation
	4. To arrange processes and assign someone to evaluate and
	make certain that the standardized procedures have been
	applied with respect to the full contexts of each work
	5. To ensure that the contract business partners comply with the
	same standard
	6. To prepare working environment to be equipped with proper
	gears and organize an adequate seminar to be certain of the
	safe working environment
	7. To be role model and participate with employee to create the
	working atmosphere that everyone can exchange queries to
	eliminate and prevent transport accidents
	8. To appropriately monitors the activities to ensure that carriers
	and drivers can properly operate
	9. To lead the accident investigation and efficiently resolve the
	incident
	10. To own the accident investigation procedures
	11. To counteract emergency if required

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	Authorized person from Procurement office is required to
Procurement	·
	1. To act as the System owner and follow through the pre-
	selection procedures
	2. To collect and update documents related to the carrier bidding
	process and assure that all related parties have the updated version
	of information to be able to efficiently perform their responsible
	duties such as
	- submit information indicating rules for driver, transport
	vehicle and other necessary documents associated with the
	management system to the carrier
	- submit necessary supporting data from carriers to other
	related offices to consider upon safety matter
	3. To make certain that any changes that might have impacts on
	businesses such as purchasing orders of machines or safety
	gears, etc. must be systematically reviewed and approved by
	related authorized personnel
	4. To keep the list of authorized carriers up-to-date
	5. To participate in the regularly scheduled performance evaluation
	of carrier
Employee & Carrier	Employee and business partners involving in transportation, to hold
Litipioyee & Carrier	themselves responsible for preventing transport accidents in
	their working area
	2. To prevent accidents from work, employee and carrier have the
	rights to deny work or stop working in situation they find
	malfunctioning equipment or hazardous working process
	3. To promptly report to the supervisor on the incidents where the
	truck, working environment, or related equipment are not in good
	condition to operate, malfunction, or damage
	4. To participate in the accident investigation, if related, or follow the
	instructions to prevent the repeated incident to oneself
	5. To attend the seminar relating to their roles and responsibilities
Driver	To strictly follow the transportation safety standard
	2. Not to violate the life saving rules
	3. At time of accident, to promptly inform the supervisor
	4. To attend safe driving workshop and other related seminars within

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Enforcement

Enforcement of these standards must follow the instructions:

Establish the management system and working procedures
 To achieve SCG vision of safety where there is zero injury and illness free, safe transportation is crucial in business operation. The guideline for transportation safety will be enforced under SCG Safety Framework, in the topic of driving safety.

2. Life Saving Rules

Life Saving Rules or LSR is the regulations for saving lives of all people at work. SCG has, thus, developed Life Saving Rules (LSRs) as an important part of the SCG Safety Framework which every company and factory under SCG must strictly follow pursuant to the announcement no. 3/2016 dated October 27, 2016 from President & CEO of SCG.

Employee and contractors relating to goods transportation activities of SCG must acknowledge the implementation of Life Saving Rules and pledge to strictly comply and not violate "Life Saving Rules".

SCG's Life Saving Rules involving transportation safety is described as follows:

Rule 6	Refrain from drinking alcoholic beverages or using addictive substances prior to or while working, driving a motor vehicle or riding a motorcycle	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Rule 7	Wear a safety belt when traveling in a motor vehicle	THE STATE OF THE S

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Rule 8	Wear a safety helmet when riding a motorcycle	
Rule 9	Refrain from using mobile phone without hands-free device while driving a motor vehicle or riding a motorcycle	

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Requirements

To comply with the following regulations is considered the minimum requirements to conform to the standards. In case of failing to comply with the regulations is deemed an act of severe violation of LSR.

Any companies, if for the time being, unable to comply with these standards due to the nature of organizational structure or type of products, may be granted exception or establish other appropriate measures not being in alignment with these standards but under recommendation of the experts from SD Office.

General Requirements	The following requirements are general requirements which may play a part in	
	facilitating effective compliance. Company may request for exemption not to	
	comply with general requirements or adapt other appropriate measures under	
	recommendation of the experts from SD Office.	
	- Every company and plant/factory operated in Thailand must strictly comply	
	with laws on goods transportation management of that nation or SCG	
	standards, the stricter one is to be followed.	
Law Requirements	The following list is a part of laws requirements that are put in force with	
-	transportation business activities in Thailand. Transport contractor is directly	
	responsible for compliance function with each type of vehicles and products,	
	even not being listed herewith	
	• the Land Transport Act, B.E. 2522 (1979)	
	• the Land Traffic Act, B.E. 2522 (1979)	
	• the Hazardous Substance Act, B.E. 2535 (1992)	
	the Labor Protection Act, B.E. 2541 (1998)	
	In case that the company and office being operated in other countries where	
	no law on goods transportation management is being enacted, this SCG	
	standard or Thai Law, the stricter one among the two shall be put into force.	
	The company shall consult with or request for recommendation from the expert	
	of SD Office	
Transportation	Goods Transportation Management within Goods Transportation Framework	
Management	can be categorized into 5 working processes	
Requirements	1. Planning	
	2. Qualification and Selection	
	3. Pre-job Activity	
	4. Perform Work	
	5. Post Evaluation	

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	Therefore to be clear and to acking by	abost officionsy plan on the application	
	Therefore, to be clear and to achieve highest efficiency, plan on the application		
	of these standards, in each working process, shall be established as follows		
	1. Planning		
	During planning process, contract owner and carrier shall comply with the		
	following requirements		
	Requirements for Contract Owner	Requirements for Carrier	
1.1 Documentation	Set up the system for documenting	Acknowledge the documenting and	
	and recording important data on	recording system for important data	
	goods transportation operation	as required by contract owner	
1.2 Safety Rule	Disseminate "Safety Rules" policies for	- Acknowledge "Safety Rules" of	
	safety management and prevention of	contract owner	
	accident from operations to all	- Assign a person to be in charge of	
	employees involving in goods	communicating to related parties	
	transportation operations, mainly	and following up on the process	
	- Safety rules relating to transporting		
	activities such as instructions for		
	roadside parking or roadway		
	stopping in case of emergency		
	- Life Saving Rules and specify that		
	compliance with Life Saving Rules is		
	part of employment contract.		
1.3 Incident Reporting	Systematically establish the procedures	- Acknowledge "the procedures and	
& Investigation	and steps for reporting, investigating and	steps for reporting, investigating and	
	analyzing accidents that may occur from	analyzing accidents" of contract owner	
	goods transportation	- Assign a person in charge of	
		communicating and organizing	
		seminar for related parties and	
		following up on the process	
1.4 Qualification	Specify the minimum qualifications of	- Explore manpower and truck fleet	
	car and truck driver that are fit for	that possess the qualifications as	
	each type of products to be	required by contract owner and	
	transported and to be in accordance	provide evidence	
	with stipulation of laws	- Set up operating plan ready for use	
		after contract being engaged	
1.5 Training	Organize seminar and training	- Acknowledge "Seminar Courses" of	
	programs to create understanding and	contract owner	
	strengthen ability to perform their	- Set up training plan ready for use after	
	duties and responsibilities. Being able	being hired	
	to work in accordance with goods		
	to work in accordance with goods		

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	transportation plan such as risk	
	assessor must finish the Route Hazard	
	Assessment seminar, transport officer	
	must attend the Fleet Management	
1 C Hannard C Countries	seminar, etc.	A clus contactors the contactors from
1.6 Hazard & Control	Organize the Route Hazard Assessment	- Acknowledge the dangers from
	on every route by	Route Hazard Assessment conducted
	- Identify hazard factors covering the	by contract owner
	scope of trucks, drivers, and roads.	- Specify measures and guidance in
	Organize risk reduction measures to	controlling driver to comply with
	meet an acceptable level	regulated risk reduction measures
	- Explain hazard factors and reduction	
	measures to carrier and driver	
	- Ensure that the carrier has measures	
	in controlling driver to follow the	
	hazard reduction measures	
1.7 Emergency	- Recognize and assess "Emergency"	- Acknowledge and look into the results
	for all types of incidents	of the Emergency Assessment
	- Explore and identify the needs for	conducted by contract owner
	installing equipment in emergency	- Explore and plan the procurement of
	protection and suspension such as	equipment in emergency protection
	fatal accidents, fire, chemical spills,	and suspension as per the timeline
	etc. providing full coverage of	of the contract owner
	potential risks in all transport areas	- Review and plan the improvement of
	- Identify necessary equipment and	emergency preparedness plan being
	specifications to be installed on the	in line with the plan of contract
	truck for work and at time of	owner
	emergency, suitable for each type of	- Study and establish guidelines for
	products and complying with law	operation and communications for
	- Prepare Safety Data Sheet (SDS)	driver in case of emergency or
	categorizing by types of goods being	parking outside the designated
	transported and keep the document	parking area
	ready in the truck at all time as	- Survey the need of employee to
	required by law	attend seminar or Emergency
	- Organize the inspection, examination,	
		Response training
	and maintenance of equipment for	- Organize the Rescue Team for truck in
	emergency prevention, with plan to	case of accident during transportation
	carry out such activities including	

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- Establish emergency control plan for	
all potential risks	
- Organize seminar and training in the	
topics of Emergency Prevention and	
Termination for workers	
- Establish and inform the carrier of	- Acknowledge safety guidelines for
safety guidelines for goods	goods transportation safety by
transportation and products	contract owner
management	- Acknowledge and plan KPI allocation
- Identify and explain the following	for other related departments and
Key Performance Indicators	set up system for consecutive follow-
1. Lagging KPI, such as accidents	ир
from transportation	- Survey and design the self-
2. Leading KPI, such as a speeding	development plan in compliance
driver exceeding legal limit and a	with employer's requirement such as
driver taking 30-minute rest	- Safe parking area for drivers on
break for every 4-hour driving,	every route
etc.	- In case of parking in dangerous or
- Require alcohol test and prescribed	non-designated area, require
limit for all goods transport driver	additional measures and instructions
and contractor	on how to receive approval for those
- Require the truck inspection to be	measures
performed and provide guidance	- Plan the alcohol and drug tests for
and solutions in case the truck failing	drivers and contractors including
the inspection, such as immediate	frequency of the test and the
suspension of goods pick-up, etc.	record
	- Survey and plan body and mind
	check-up for driver
	- Assign safety officer as required
	by law for supervising the system
	maintenance and safety activities
	maintenance at the frequency stipulated by law - Establish emergency control plan for all potential risks - Organize seminar and training in the topics of Emergency Prevention and Termination for workers - Establish and inform the carrier of safety guidelines for goods transportation and products management - Identify and explain the following Key Performance Indicators 1. Lagging KPI, such as accidents from transportation 2. Leading KPI, such as a speeding driver exceeding legal limit and a driver taking 30-minute rest break for every 4-hour driving, etc. - Require alcohol test and prescribed limit for all goods transport driver and contractor - Require the truck inspection to be performed and provide guidance and solutions in case the truck failing the inspection, such as immediate

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	2. Qualification and Selection	-
	Requirements for Contract Owner	Requirements for Carrier
2.1 Assessment and	- Appoint persons in charge and working	- Assign responsible facilitator
Selection Process	team to consider the qualifications and	- Proceed and submit complete set of
	select the carrier company, team of	documents to contract owner
	which comprises the representatives	
	from goods transport-related	
	department, with at least one person	
	from Safety Division	
	- Make sure that the requirements	
	being laid down in the planning	
	process are part of the processes and	
	essential documents for carrier	
	company selection and being	
	effectively disseminated.	
2.2 Selection Criteria	- Establish selection criteria	- Facilitate and provide information to
212 3010001011 01100110	- Proceed with survey and assessment of	contract owner representative upon
	carrier qualifications and capabilities in	request
	offering safety activities, at least these	·
	following 5 actions, namely	
	1) Internal management	
	2) Selection and potentials	
	development of trucks drivers	
	3) Truck management	
	4) Route hazard management	
	5) Emergency response	
2.3 Approved carrier list	- Create the Approved Carriers List	- None
and blacklist	including the names of the carriers	
	that passed the transport qualifications	
	and capabilities test	
	- In conducting the Approved Carrier	
	List, separate them into 2 accounts	
	comprising	
	1. Approved Carrier List for Hazardous	
	Substance	
	2. Approved Carrier List for non-	
	Hazardous Substance	

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- Th	e conduct of Approved Carrier List	
mı	ust include the sub-contractor of	
the	e carrier.	
- De	fine the regulations for dismissal	
of	the carrier from the Approved	
Ca	rrier List. For instance,	
1.	Carrier with temporary suspension	
	of purchase order which deemed to	
	be dismissed from the list	
2.	Carrier with no service activities	
	for longer than 5 years	
3.	Carrier that is liquidated or	
	terminates services that contract	
	owner or contract owner	
	representative is using	
4.	Carrier that the contract owner	
	or contract owner representative	
	canceling service with them	
- Cr	eate blacklist or carriers list or	
cai	rier's sub-contractors list indicating	
the	e carriers that violate the Safety	
Ru	le or not comply with the	
sta	ndard, which may cause critical	
los	s or the company's business	
ref	usal.	
- Est	ablish rules for carrier's blacklist	
ren	noval such as	
1.	Carrier that is taken over or has a	
	change in management.	
2.	Carrier that improved services as	
	previously specified	

3. Pre-job Activity

After the carrier had been selected by contract owner, prior to job commencement, the carrier must pass final inspection to verify the qualifications and capabilities of the drivers as well as types and specifications of the trucks are as required.

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		Requirements for Contract Owner	Requirements for Carrier
3.1	Driver	Assign responsible parties to verify the	- Coordinate and facilitate the
	Qualification	qualifications of the carrier's drivers to	process of verifying driver
	Verification	provide service to the company, being	qualification to be effectively
		as defined in the documents or related	conducted by the contract owner
		evidence	representative
			- Improve or change the driver in case
			defects and non-compliance being
			found against the requirements
3.2	Truck	Assign responsible parties to verify the	- Coordinate and facilitate the process
	Qualification	qualifications of the carrier's trucks,	of verifying truck's qualification to
	Verification	being as defined in the contact and	be effectively conducted by the
		complied with related document and	contract owner representative
		evidence	- Improve or change the trucks in case
			defects and non-compliance are found
			against the requirements

			4. Perform Work		
			Requirements for Contract Owner	Requirements for Carrier	
4.1	Engagement awareness	and	 Organize the activities to show engagement between the managements of contract owner and carrier Support and promote activities within carrier company to show engagement between the carrier's management and employee 	- Organize the activities to show engagement between the carrier's management and employee such as Safety Talk by the carrier's executives and safety officer or other safety-related activities, regularly scheduled at least once every quarter, which shall result in efficient management of the carrier.	
4.2	Performance reporting		 Conduct the follow-up audit of the operation and report the performance of carrier including the driver being compliance with requirements If faults being found, the effective communication must be portrayed to the responsible person of the carrier to correct them 	 Control every process of operation to be in accordance with contract Follow-up and report to contract owner regularly such as report on Key Performance Indicators (KPI) Proceed with the improvement and inform the responsible parties of the contract owner without delay 	

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4.3 Annual audit	- Conduct the performance audit of	- Coordinate and facilitate the audit	
	the carrier's company including	process to be effectively conducted	
	sub-contractor (if any) at least once	by the contract owner	
	a year to confirm the compliance with	representative	
	the requirements specified in the	- Establish the consecutive plan and	
	transport contract and/or any related	proceed with the adjustment to	
	law	improve the quality of audit results	
	- Specify the auditor team with	of the company as well as the sub-	
	qualification and certification to	contractor (if any)	
	perform the auditing works, for		
	instance, the auditor must pass the		
	seminar courses on Goods		
	Transportation Safety Management		
	System Auditor.		
4.4 Punishment	- Establish and inform the carrier of	- Acknowledge and control	
	the guidelines not to violate the	procedures not to violate the	
	contract owner's Goods	contract owner's Goods	
	Transportation Safety Standard	Transportation Safety Standard	
	- Set up the punishment for the carrier	- Monitor the driver's behaviors and	
	to improve their management	set up the punishment for the non-	
	system	compliance	

	5. Post Evaluation		
	Requirements for Contract Owner	Requirements for Carrier	
5.1 Annual vendor	- Conduct the annual Post Evaluation	- Set up the consecutive plan and	
evaluation	of services performed by the carrier	proceed with adjustment to	
	pursuant to the procurement process	improve the quality of audit results	
	of each company	of the company including the sub-	
		contractor (if any)	

Additional Requirements

The following requirements are additional requirements complying with these standards, which shall be considered as an alternative for usage.

None

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Implementation Process

Key activities and selection of controlling measures to allow effective working or operating system including

1. Operating Procedure / Work Instruction

Both contract owner and carrier company are obliged to set up the Operating Procedure / Work Instruction providing full coverage to all key activities that require control in order to achieve specified targets such as safety stacking on the trucks, tarp tying and covering, safety driving, safety parking for loading-delivery and drop-off as well as emergency procedures, etc.

Operating Procedure / Work Instruction will serve as manual for each working process that the employee must follow. Besides, it will be the management's tool for works monitoring and communication that can build confidence and clarity work for efficiency from all staff. Work instruction should describe each detailed procedure as follows:

Item	Subject/Topic	Explanation-Definition
1	Objective	Work objective / Deliverable
2	Scope	Boundary of work, person, area, equipment & tools, etc.
3	Description of System	Specific system information, Limitation, Flow diagram
4	Safety-Occupational Health	1. Basic safety details when being exposed to SDS, Chemical
	Concerns and Warnings Hazard and Toxicity and First aid treatment	
		2. Safety & Occupational health control points
5	Precaution and Mitigation	Special precaution & its mitigation
6	Personal Protective Equipment	Specific PPE requirements that is beyond Basic PPE
7	Role, Responsibility and	Work procedures, duty and responsibilities of a person
	Qualification	involved in each working procedure. Qualifications and
		training requirement before starting work .

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8	Communication	Describe communication purpose, media used and target	
		receivers	
9	Detail of Operating Procedure	Detail (step by step) how to do the job	
10	Deviation (In case operating	Redefine detailed work step if needed to work differently from	
	procedures not as described in	bed in this procedure or additional work that isn't covered by this	
	No. 7 procedure		
11	Emergency	Describe what to do when an emergency occurred	

2. Documentation and Control

Documentation and control should be set up to support the management to be efficient, accurate, precise, and credible, and to be further enable a more sustainable development as described herewith

- 1. Data collection and record
- 2. Data control system
- 3. Data analysis, summary, and report
- 4. Document control system and data access rights with permission assigned by levels

3. Audit

3.1 Types of Audit

These standards are the key elements of the compliance part of occupational health and safety management within SCG Safety Framework. The plant manager / manager of the factory or business associated with these standards must proceed with the continuous improvement. Each organization must establish the compliance evaluation mechanism as required by management system and carry out the recommendation from such evaluation to strategize the plan and systematically improve the performance. Such evaluations include

- 1st Party or Internal Audit to be conducted on regular basis, such as, annually. Results will be carried out to be a part of annual management review.
- 3rd Party Audit such as Corporate Division or other departments that are not the contract parties of the activities or external parties certified with international standards having the auditing frequency of one every 3 year.

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3.2 Management Review and Continuous Improvement

The organization's top executives and management team must take Management Responsibility in order to handle the Management Review and Continuous Improvement by

- 1. Arrange the meeting to discuss among executives comprising top managements and all departments' directors who directly report to them to periodically review the management plan of the company, at least once a year, with the solid plan and agenda.
- 2. Consider the inputs in the meeting
- 3. Review the outputs in the meeting, concerning the following matter
 - 3.1 Occupational Health and Safety Policy
 - 3.2 Objectives, targets, and operating plan
 - 3.3 Guideline for improvement, modification, and development of system to foster continuous improvement
 - 3.4 Allocation of sufficient resources and budget for carrying out the operation in compliance with law, of which shall be continuously improved.

4. Training

4.1 SCG's Policy

"Provide training courses to ensure that all employees understand and are capable to confirm their roles and responsibilities"

Reference: SCG Safety Framework Element O. Management Leadership & Commitment, Item 2 (2.7)

4.2 General Requirements

- 1. Provide the systems for developing and sustaining the competence level of employee and business partner in the operations related to transportation safety including
 - · Identification of the necessity of training for manager, employee, carrier, driver, etc.
 - Assessment of the accuracy of the training
 - Collection of data on level of employees' competence and list of authorized personnel
 - · Conduct of standard seminar
- 2. Under these standards, to officially organize the training courses and store the handout of documents. (the document must be recorded as evidence of training courses.)
- 3. To organize the retraining in case there are any significant modification to these standard and possible to believe that the employees do not have the clear understanding of their responsibilities pursuant to the requirements.

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4.3 Specific Requirements

- 1. Safety Driving Course for Truck is considered mandatory and necessary for the employed drivers transporting goods for SCG.
- 2. Specialized courses in the subject of transportation safety will be specifically organized for the individuals based on the person's roles and responsibilities and should be considered a part of individual's qualifications.
- 3. Statutory courses must be organized as required by law of such nation (if any).

4.4 Training Courses

The recommenced training courses should be organized to provide knowledge on roles and duties of each person working in the field of transport safety.

4.4.1 Courses for Awareness Raising

The personnel who works in the field of transport duty is required to have sufficient capabilities to be responsible for the jobs being assigned by being able to:

- 1. Understand the objectives, principles, and procedures for transportation safety including Safety Rules, roles of their own and role of others involving in transportation safety works
- 2. Acquire knowledge about prevention of accidents that might occur during transport including the cause-and-effect diagram of transportation process

4.4.2 Specialized Courses

Program: Route Hazard Assessment

This training course is designed for a person whose works relate to transportation safety including

- Truck driver
- Delivery planner

The following subjects show the essential capabilities for the employee working in the field of transportation safety. The levels of required competency depend on each person's roles and responsibilities such as

- Road Accidents Perspective
 - Accidents Record
 - Causes and risk factors causing accidents (Driver, road, street, and environment)
- Definitions of Hazard and Risk
 - Hazard / Risk / Near miss / Accident
- Hazard and Risk Analysis
 - Hazard Identification
 - Simple Risk Matrix / The Qualified Risk Scale
 - Risk Assessment Report
 - Risk Control

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Program: Emergency Response

This course is designed for any person whose job involves transportation safety as follows

- Truck driver
- Emergency response team or a person having a role in responding to emergency
- Conducting emergency plan
- Transportation safety emergency response drill

These following topics show the essential capabilities for the persons working in the field of transport safety which specified levels of competency are determined by the individual roles and duties such as

- Definition of Emergency
- Emergency Response Team
 - Structure of Emergency Response Team
 - Roles and Responsibilities
- Emergency Response
 - Procedures and work instructions to prevent emergency
 - Restoration after emergency response

Program: Fleet Management

This course is designed for any person whose job involves transportation safety as described

- Transport manager
- Transport plan conductor

These following topics demonstrate the important capabilities for the persons working in the field of transport safety which specified levels of competency are determined by the individual roles and duties such as

- Importance of transport works
 - Definition and importance of transport works
 - Roles and duties of carrier workers
- Road Safety Management
 - Safety policy and organization structure
 - Regulations
- Driver Management
 - Management of the driver
 - Development of the driver
- Vehicle Management
 - Inspection requirements for vehicle and its safety equipment
 - Daily car check-up prior to pick-up date by the driver
 - Random inspection of vehicle's condition and safety
- Journey Management
 - Delivery Plan
 - Locating hazards on the road
- Accident Report
 - Accident preliminary analysis
 - Conduct of report at time of accident

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• Instruction for Report of a Truck Accident

- Safety Driving
- Effective Communication
- GPS System for Transportation Control

Program: Incident Investigation

This course is designed for a person whose job involves transportation safety as described

- Incident investigator
- Safety officer

These following topics demonstrate the necessary capabilities for the persons working in the field of transport safety which specified levels of competency are determined by the individual roles and duties such as

- Importance of incident investigation
- Roles and duties in incident investigation
- Tools and how to operate them in the incident analysis and production of measures for solution and prevention
- Follow-up on the implementation of solution and prevention measures

Program: Goods Transportation Management System Auditor

This course is designed for a person whose job involves transportation safety as described

- Inspector for the implementation of these standards

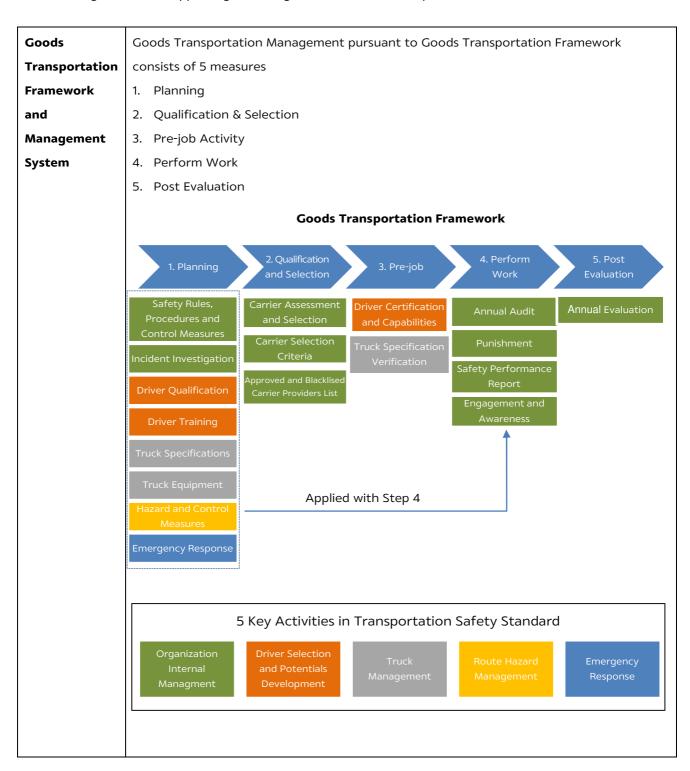
These following topics demonstrate the necessary capabilities for the persons working in the field of transport safety which specified levels of competency are determined by the individual roles and duties such as

- Requirements of these standards
- Implementation measures of these standards
- Audit measures

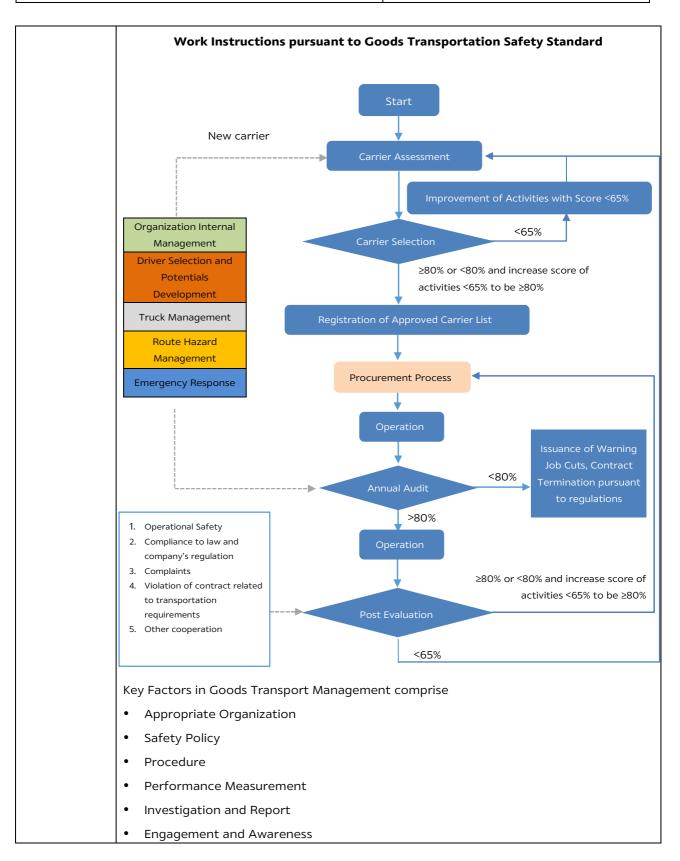
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Supporting Materials to comply with these Standards

The following details are supporting knowledge for the standards implementation:



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Driver

Key Factors in Driver Management comprise

- Standard
 - Training and Evaluation

Screen to recruit

- Welfare and Turnover rate
- Readiness
- Monitoring system

Minimum Qualifications and Characteristics of Truck Driver

- 1) Own a license for the class of vehicles specified by law
- 2) Have at least one year of licensed driving experience for the required vehicle type specified by the employer
- 3) Be a year older than the minimum age eligible for obtaining each category of driving license and not more than 63 years old
- 4) Possess at least 6th grade educational background or being literate
- 5) Pass a standard health check required by the employer with at least a list given in Appendix 9. A driver older than 60 years old is subject to some additional check-up due to higher risk of health problems
- 6) Pass a Driving Safety Course to be reviewed on annual basis
- 7) Never be prohibited fom being a driver in the company in the same industry
- 8) Pass a Driving Aptitude Test
- 9) Pass a knowledge test concerning Traffic Regulatory Measures or Highway Code
- 10) Obtain criminal record clearance (applicants provide initial information and employer later performs the investigation)
- 11) Wear appropriate attire for the job

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Truck Standard

Trucks used for goods transportation to the customers or any specified destination by the employer being classified below

- 1. General goods truck
- 2. Chemical or hazardous substance truck
- 3. Pick-up truck for goods

Key factors in truck management comprise

- Prevention Checking
- Maintenance
- Safety Equipment
- Monitoring system

Minimum Qualifications and Specifications of Truck

- 1) Type, size, and weight of truck must be capable of transporting goods pursuant to the characteristics and types of products with safety and compliance with law
- 2) Truck's useful life after its initial registration
 - a) Useful life of general-purpose truck is not more than 10 years
 - b) Useful life of specialized truck is no longer than 15 years and an additional check-up is required after 10 years, trucks of which include CPAC concrete mixer truck, semi-trailer for bulk cement, ten-wheeled truck for bulk cement







Essential Equipment for Truck

- Install and use GPS to send real-time truck usage data or with frequent reports up to every
 seconds and assign a person to monitor and inspect for 24 hours or during transport duration
- 2) Install ID card swipe machine that connects the driver's license data to Center Operation of Department of Land Transport as being required
- 3) Provide an audible warning alarms system at least for these following alerts
 - a) Speeding over limit
 - b) Driving in the restricted area
 - c) Parking on the shoulders, roadway, or dangerous spot
 - d) Driving continuously without a rest break

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	4) Install dual-camera (front and in-cabin) to record the driver's behavior and situation in front of the
	vehicle during transport, which can be kept for at least 15 days for past date record retrieval
	5) Provide equipment and tools for hazard prevention in an accident or emergency as
	required by law concerning types and hazard of the products
	6) In case of hazardous substance transport, the truck must comply with the required law.
	7) For vehicle using natural gas as fuel must comply with the Announcement of the Ministry of
	Land Transport regarding criteria for certified standards of NGV fuel system components.
	8) Install safety belts in all vehicles
	9) Ensure the safety level of vehicle weight and not exceed weight limit specified by truck
	manufacturer or regulated by law
	10) Clearly display contact number of carrier company on the truck with telephone number
	that is available 24 hours a day in case of emergency
Journey	Key factors in transport management comprise
Standard	Route Hazard Assessment
Standard	Communication
	GPS Monitoring
	Work Instructions for Hazard Control on the Route
	1. Assess the potential hazards in transport by identifying hazards and providing reduction
	measures and locating the safe rest area. Do constantly update the hazard assessment.
	2. Disseminate the results of hazards assessment to the driver for compliance
	3. Monitor the transport via GPS
Emergency	The incidents occurring during transport that the driver needs emergency assistance to
Response	prevent the critical impact that might follow such as
Standard	1. At time of road accident, with injured or dead victims, critical damaged, burnt and unrelocatable truck,
	2. The spill of product from container leads to inability to cease the incident and the need
	for assistance to prevent further impact on water systems, marine life, livestock,
	cultivation and seeding caused by release/spill of the Company transported material,
	which might lead to necessity to announce the community warning, partial road
	closure, evacuation or shelter in place
	3. Incident involving container failure, securement, handler or management of specialized
	equipment to stabilize the products to safety
	4. Incidence of driver's immediate illness which affects the driving efficiency
	Key factors in emergency management include
	Emergency drill
	Emergency Response
	j S / Territoria

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Appendix

Appendix 1 Severity level of the accidents occurring during transportation

Severity level of accidents occurring during transportation can be categorized into 3 Tiers

	cidents occurring during transportation can be categorized into 3 Tiers Definitions	
Severity level		
1. Low	Released Quantity:	
	Spill* of < 50 kgs of chemical with no other impact	
	Spill* of < 1000 kgs of resin or similar material with no other impact	
	Human Impact: Injury of any party with resulting in precautionary medical visit	
	Environmental Impact: -	
	Community Impact: Immediate are around incident is restricted to only emergency	
	response personnel.	
	Company Direct cost/loss: < \$2,500 USD or defined by Business Unit	
	Reputation: No media involvement or Company is not mentioned in the media coverage.	
2. Medium	Released Quantity:	
	Spill* of ≥ 50 kgs of chemical with no other impact	
	Spill* of > 1000 kgs of resin or similar material with no other impact	
	Human Impact: Injury of any party with MTC/RWC	
	Environmental Impact: Incident involving Container failure, securement, or handler	
	needs response assistance	
	Community Impact: Any community alert given as a result of the incident (may be	
	precautionary only) and / or partially highway closed	
	Company Direct cost/loss: ≥ \$2,500 USD or defined by Business Unit	
	Reputation: Repeated local media coverage and media attention outside of the	
	immediate area	
3. High	Released Quantity: -	
	Human Impact: Fatality, DAWC/LTI to any party	
	Environmental Impact:	
	: Measurable/visible damage to buildings livestock, vegetation, crops fish water	
	systems caused by release/spill of the Company transported material	
	: Third party Carrier/ Third party Warehouse operator unwilling/unable to respond to	
	incident and/or product breaches an environmental system	
	Community Impact: Any significant impact as a result of the incident e.g. community	
	evacuation, shelter in place, totally highway closed, maritime traffic stops for ≥ 1 hr.	
	Company Direct cost/loss: ≥ \$100,000 USD or defined by Business Unit	
	Reputation: Significant local media coverage or any national or international media involvement	

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Appendix 2 Instructions and means of communication for the drivers in case of roadside parking or roadway stopping during an emergency

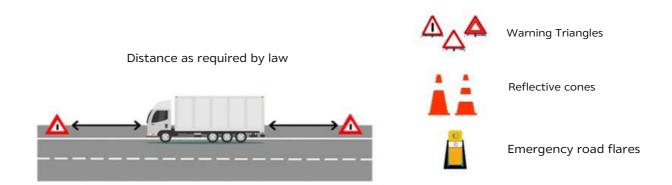
Instructions

- 1) To avoid traffic blockage, park as close as possible to the roadside
- 2) Turn on emergency light when parking at all time, perform self-check if the light is working
- 3) Display emergency signals such as 1) reflective cones 2) warning triangles or 3) emergency road flares in front and behind the vehicle with the following distances:
 - In front of the vehicle: 5 metre
 - Behind the vehicle: 5 metre and 50 metre

Note: Under the announcement of the Department of Land Transport on displaying the emergency signals or signs on the road when needed to stop the vehicle on the roadway or shoulder of the road B.E. 2561 (2019) by placing at least 2 pieces at the front and the back of the vehicle at the distance of not less than 50 metre. Unless necessary being unable to display the signals or signs at the required distance, do provide the emergency signals or signs at the appropriate distance to alert the following driver to safely stop the vehicle.

Communication measures

- 1) After the driver parked the vehicle and displayed the emergency signs, the driver shall take photos of a vehicle to demonstrate the parking location, emergency light turning-on, and emergency signs being displayed, and submit to the carrier company via designated channel right away.
- 2) The driver reports the incident and the need for emergency parking to the carrier company for the hazard assessment or additional measures, if needed.



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Appendix 3 Examples, operational procedures of the carrier companies

These following subjects are the examples of procedures that the carrier companies are required to develop as their own work instructions

- 1. Locate the safe rest areas for the driver to take a break for every transport route. In case the need to park at unsafe or undesignated area arises, provide the additional measures which require the approval from the authorized personnel
- 2. Conduct the alcohol test on the driver and transport crew every time before picking up goods at the company, factory or warehouse of the contract owner or contract owner representative. The alcohol must be at 0 mg%.
- 3. Conduct the drug test on the driver in a timely manner, but once not longer than 3 month per person
- 4. Conduct the physical and mental check-up for the driver before work. The driver must show the driver readiness state with no symptom of illness and no medication causing a drowsiness side effect or impairing driving skills that cause danger during driving.
- 5. Perform vehicle's inspection before picking up goods the goods at the company, factory or warehouse of the contract owner or contract owner representative.
- 6. Provide work instruction and communication measures to the driver in case of emergency or parking at non-designated location
- 7. Appoint the safety officer as required by law to administer the management system and safety promotion activities
- 8. Set up the system for random inspection from video footage from inside car dashcam which contract owner or contract owner representative could perform random inspection.
- 9, Implement KPI as required by contract owner or contract owner representative comprising at least
 - Lagging KPI, such as accidents from transportation
 - Leading KPI, such as speeding driver exceeding legal limit and driver taking 30-minute rest break for every 4-hour driving, etc.
- 10. Set up the incident response procedures categorizing by the levels of violence to handle emergency during transport in writing and keep it within the truck at all time. The organizer of the emergency response manual is required to complete the training courses designed for emergency response.
- 11. Organize the Rescue Team for truck in case of accident during transportation for hazardous substance.

 Provide the equipment for emergency response by types and hazards of products. Rescue team members are required to complete the training courses designed for emergency response.
- 12. Set up the Incident Investigation and Reporting procedures to report all incidents to contract owner or contract owner representative. Incident investigators are required to complete the training courses designed for incident investigation.

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- 13. Organize emergency response drill at least once a year which could be co-organized with other carriers.
- 14. Organize training for the drivers, only for the necessary target, by considering the full coverage of learning and development model of 70:20:10 and determine the evaluation measures after training to ensure the understanding of the drivers towards transport safety before commencing work.

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Appendix 4. Evaluation form for selection and review of safety practice of the carriers

			Score			Remark	Score
Subject	Evaluation Details	Procedures / Evaluation Measures	Fail (1)/ require	Fair (3)	Good (5)		
1. Management System							
Organization							
1.1	Possess a clear management	- Review the Organization Chart focusing at the	No	Lack of team	Have full team		
	structure that indicates roles	transport department. The compulsory positions	Organization	members or	members with		
	and responsibilities of each	include the Management team, key working	Chart	assigning multiple	clear separation		
	position in the organization,	teams to achieve target, accounting/treasury		tasks to one	and no overlap		
	and announce to the	team, human resources management team,		assignee or	between		
	employee for	securities team		unclear job	responsible		
	acknowledgement and	- Announce the organization chart openly in the		description	parties. Have job		
	further proceeding	company for the employee's acknowledgement		stating too	description		
		- Have clear job description identifying duties and		ambiguous and	clearly stating		
		jobs assigned to each position		broad duties	job details of		
		- Company must describe roles and responsibilities of			each position		
		Transport department or other related transport jobs					
		activities in connection with other departments					

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				Score		Remark	Score
Subject	Evaluation Details	Procedures / Evaluation Measures	Fail (1)/ require improvement	Fair (3)	Good (5)		
1.2	Appoint safety officers and notify the list of safety officers as classified below: - technical level (for business partners from 20-49 people) - advanced technical level (for	- Send manager or leader to attend the seminar program for Safety officer at supervisor level and the Safety officer at professional level. The company with more than 20 employees must appoint the safety officer at technical level, or safety officer at advanced technical level, or the safety officer with professional level	None	Insufficient evidence or Safety Officers are unable to describe their job details.	Complete evidence and Safety Officers are able to describe their job details.		
	business partners from 50-99 people) - professional level (for business partners of more than 100 people)	 Obtain safety officer certificate and safety officer at professional level program transcript Provide announcement of safety officer appointment Provide proof of registration of safety officer with Department of Labour Protection and Welfare 					
1.3	Appoint safety representative to coordinate on safety matters and perform inspection at workplace or random inspection on a regular manner of at least once a month	 Appoint safety officer - professional level in the company as required by law Provide job description for the key positions in transport such as vehicle inspection mechanic, safety representative and job assignment representative or job details form stating duties and responsibilities of each position in the organization chart 	None		Yes		

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		Evaluation Details Procedures / Evaluation Measures		Score		Remark	Score
Subject	Evaluation Details		Fail (1)/ require improvement	Fair (3)	Good (5)		
1.4	Set up the requirements,	- Set up at least one clear policy concerning	No proof in	Provide the	Provide the		
	policies or visions regarding	transport safety such as Narcotic Policy or	writing	announcement in	announcement		
	safety in writing and be	Alcohol Policy, etc.		writing but	in writing with		
	signed by top executive	- Set up annual review at least once a year		insufficient	detailed		
		- Assess the actual communication behaviors from		communication	communication		
		policy announcement, weekly/monthly meeting		regarding safety	regarding safety		
		minutes, drivers' inquiries on their understanding		or have no policy	or have annual		
		and implementation		review for at least	policy at least		
				once a year	once a year		
1.5	Set up the requirements or	- Set up at least one clear policy concerning each	No	Provide the	Provide the		
	policies concerning	community such as the carrier's waste		announcement	announcement		
	environment in writing and	management policy, etc.		in writing but	in writing with		
	be signed by top executive	- Set up annual review at least once a year		insufficient	detailed		
	focusing on disposal of	- Assess the actual communication behaviors from		communication	communication		
	waste, battery, tire, and	policy announcement, weekly/monthly meeting		regarding	regarding safety		
	reduction of impact on	minutes, drivers' inquiries on their understanding		environment or	or have annual		
	community	and implementation		have no policy	policy at least		
				review for at least	once a year		
				once a year			

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				Score		Remark	Score
Subject	Evaluation Details	Procedures / Evaluation Measures	Fail (1)/				
Subject	Evaluation Details	Procedures / Evaluation Measures	require	Fair (3)	Good (5)		
			improvement				
1.6	Set up the waste disposal	The company must set up waste disposal plan or	No evidence of	Operate waste	Systematically		
	procedures for battery, tire	evidence that displays waste disposal procedures and	waste disposal	disposal partially	operate waste		
	and engine oil for the	frequencies	or waste selling	correct and have	disposal and have		
	company or subcontractor	- In case of selling vehicles' tires or engine oil to the	without	insufficient	complete		
	to accurately follow	buyer, provide the purchasing evidence such as	controlling the	evidence,	evidence of		
		receipt, buyer's ID for further inspection	disposal	especially relating	waste disposer		
		- If the third party provides maintenance service	measures	to engine oil,	such as waste		
		such as changing the engine oil, identify names		battery, tire	disposal permits		
		and addresses of the companies or stores that			and waste		
		provide service and dispose waste.			transporter		
		- If the company keeps the tire or perform the			license		
		change of engine oil themselves, the assessor					
		must take a photo of the place storing tires, and					
		batteries, and changing engine oil as inspection					
		evidence of parking and maintenance. If the oil					
		leakage being found, ensure that engine oil won't					
		spill into water sources or public canal.					
1.7	Implement the policies to	- Review action plan/project in compliance with	None	Yes, and	Yes, and		
	develop organization and	policy (efficiency increase, safety, service,		conforming to	conforming to		
	business plan	employee)		safety policy	safety policy and		
		- Review operating plan and performance					

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					achieving operating plan		
				Score		Remark	Score
Subject	Evaluation Details	Procedures / Evaluation Measures	Fail (1)/ require improvement	Fair (3)	Good (5)		
1.8	Set up the indicators for policy and management efficiency such as accident rate, percentage of flawless deliveries, fuel consumption efficiency, customer satisfaction, etc. Progress to achieve the goal and continually improve the system process	 Possess at least one safety performance indicator that clearly designed the target value Have documentation process to systematically analyze and evaluate, of which can be randomly inspected Able to display efficiency indicator and retrieve a past date record for at least 3 months Conduct process evaluation and improvement to achieve each indicator target 	None	Yes, but insufficient	Yes		
Procedui	re					1	•
1.9	Indicate the operational process for transport starting from taking order to delivering products to customers	 Provide document displaying workflow generally in the form of Flow Chart or Procedure Provide step-by-step process and identify the responsible parties and procedures (require the process of alcohol or narcotic inspection) In case of transporting variety of goods, present at least one type of goods' transport procedures 	None / In progress	Yes, and not complied	Yes, with evidence and completely complied as required		

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1.10	Possess the data collection	Consider the documents displaying guidelines on	None / In	Yes, but not	Yes, and fully		
	procedures concerning	handling mistakes or abnormalities, analysis	progress	being complied	complied		
	errors in each working	procedures, and follow up process. Reviewing		or not fully or			
	process. Set up the	complaint and claim that had been reported. In		not regularly			
	guidelines on documenting	case there is no claim/complaint, assess the		executed			
	the mistakes, analyzing and	procedures document for ability to proceed.					
	rectifying the critical errors						
	to be used in the						
	development of						
	transportation operating						
	manual. Have the clear						
	prevention measures						
Perform	ance						
1.11	Measuring Past Performance	KPI shows the achievement of performance	None / or have	Have KPI /	Have KPI /		
	from Lagging KPI and Leading	target. If not, require the pursuit of actions	KPI but not	Operating	Operating		
	KPI	together with follow up measures	achieving	performance	performance		
			target	not achieving	achieving target		
				target but			
				following up			
				with solution			

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Subject	Evaluation Details	Procedures / Evaluation Measures	Fail (1)/ require improvement	Fair (3)	Good (5)		
1.12	Collect statistics, analyze data, conduct report and suggestion regarding the encountering with danger, illness, or annoyance of neighbors from operation for the management or related parties to use in safety procedures	Review accident statistics report and connection with the company's policies	None				
1.13	Organize the monthly meeting to review performance by using Leading KPI and Lagging KPI and determine solution or improvement measures	Review the monthly meeting minutes to see if such KPI has been utilized. In case of missing the plan, consider the countermeasures to further proceed.	None	Yes, but not complete	Yes		
Incident	Investigation and Reporting						
1.14	Own the accident reporting procedures to report accident to contract owner	Review the documents displaying accident reporting procedures or employee's manual stating reporting guidelines or inquire employees	None		Yes		

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1.15	Analyze the accident and	Inquire the responsible parties and check the	None / In	Yes, but not fully	Yes, and		
	occurrence that may cause	documents to ensure the actual operation and	progress	complied	completely		
	the accident (including	efficiency as well as the use of tool for analysis.			complied or no		
	details of the incident,	The solution measures address the right cause of			accident being		
	cause of casualties, and	the problem. The follow-up on the correction. In			recorded for		
	guidelines for	case of no accident, put in the full score.			more than 3		
	improvement and				years		
	prevention) by reporting to						
	the related division and						
	contract owner company						
1.16	Assign responsible parties	Inquire the responsible parties about the	None		Yes		
	for correction and	guidelines on investigation and check the					
	prevention measures and	documents for actual operation and efficiency					
	follow-up on the matters						
Engagen	nent and Awareness						
1.17	Report status of job	Record the meeting with the driver including the	None	Yes, but not fully	Yes, and having		
	insecurity and clarify details	safety content, list of attending drivers. The		complied or not	record of every		
	in Tool Box for experiences	meeting should be held at least once a month with		attending all	matters		
	sharing to create awareness	100% participation of employee (gradually record in		meetings	discussed in the		
	and precautions to avoid	Tool Box)			meeting in tool		
	repetitive incident				box		

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1.18	Top executives and safety officer-management level of the business partner need to regularly conduct safety talk at least once a month.	Review the meeting documents or Line Walk record of the top executive	None		Yes		
1.19	Communicate about safety news and continuously update the latest incident	Check the announcement on the bard, inquire the employee about their understanding	None		Yes		
1.20	Being certified by international standards such as ISO9001, ISO14001, and ISO39001, Qmark or other certifications	Check Certificates and evidences	None		Yes		
1.21	Be the memberships and engage in activities of Federation of Professions or legally registered Professional Associations	For example, the Federation of Thai Industries, the Land Transport Association of Thailand, the Eastern Transport Association - Check proof of evidence	None		Yes		

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			Score			Remark	Score
Subject	Evaluation Details	Procedures / Evaluation Measures	Fail (1)/ require	Fair (3)	Good (5)		
2. Drive	r Management		improvement				
Recruitm	nent						
2.1	Have proper guideline for recruitment, inspection, and documentation of employee's information	 Establish procedures for employee recruitment Proceed with documentation of employee's information including official documents, driving license as per the type of vehicle, and ID In case of no procedures in writing, alternatively proceed with the review of employee's profile for the qualifications and recruitment measures In case there is no recruitment of new employee, provide the profile of current employee 	None / In progress	Yes, but incomplete	Yes, and fully complied		

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Subject	Evaluation Details	Procedures / Evaluation Measures	Fail (1)/ require	Fair (3)	Good (5)		
2.2	Conduct the proper driving test to assess skills of the drivers before recruited	 Request for the driver's skills test template such as driving, parking, giving signals, and gear usage, etc. by specifying scoring criteria to pass the test and having the assessor concluded the result before recruitment or not Evaluator passing the related training or having proper experience or not 	None / In progress	Yes, but incomplete	Yes, and fully complied		
Training	and Evaluation						
2.3	Provide training for the driver pursuant to Driving Safety Course: SDC) by institutions certified the Department of Land Transport and international school for driving such as Smith System in the subject of driving safety before recruitment and regularly review at least once a year	 Request for the plan for training all new and old employee Review actual training against plan Conduct training evaluation Evaluator having proper experience or not 	None / or possess a plan but haven't sent any driver to have training as planned	Yes, possess a plan but haven't sent all drivers to have training as planned	Yes, possess a plan, and completely sent all drivers to have training as planned		

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Subject	Evaluation Details	Procedures / Evaluation Measures	Fail (1)/ require	Fair (3)	Good (5)		
			improvement	(-,	3334 (5)		
2.4	Possess a test on law on	- Possess a plan for annual seminar and carrying out	No plan / or	Yes, possess a	Yes, possess a		
	highways, traffic law,	the training for all employee, plan of which would	possess a plan	plan but	plan, and		
	safety attitude test by	consist of training title, list of employees to take	but haven't	haven't sent all	completely sent		
	carrying out behaviors	the training, resources for the training such as	sent any driver	drivers to	all drivers to		
	interview and basic job	budget and instructor. It could be internal training	to receive	receive training	receive training		
	training for the driver	such as language course for employees	training as	as planned	as planned		
		- Review the plan in case of initial proceeding	planned				
		- Inspect the plan and audit the result of the					
		procedure if it is progressing as scheduled and					
		expecting the result.					
		- Provide evidence of actual training being					
		organized such as photograph or training					
		registration, etc.					
		- For monitoring the plan, the company must					
		present the proof of attendance					
2.5	Driver receives basic training	- Possess evidence of periodically organizing	No plan / or	Yes, possess a	Yes, possess a		
	on vehicle and equipment	training on vehicle check-up and maintenance by	possess a plan	plan but	plan, and		
	check-up and maintenance	the trained mechanic only	but haven't sent	haven't sent all	completely sent		
			any driver to	drivers to	all drivers to		
			receive training	receive training	receive training		
			as planned	as planned	as planned		

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2.6	Provide a basic firefighting and first aid training courses	- Possess plan and result. If no plan being executed for the current year, consider the previous year's plan and result.	No plan / or possess a plan but haven't sent any driver to receive training as planned	Yes, possess a plan but haven't sent all drivers to receive training as planned	Yes, possess a plan and completely sent all drivers to receive training as planned		
2.7	Provide a safety at work training (not SDC) such as working at height or lifting and handling, etc.	- Possess plan and result. If no plan being executed for the current year, consider the previous year's plan and result.	No plan / or possess a plan but haven't sent any driver to receive training as planned	Yes, possess a plan but haven't sent all drivers to receive training as planned	Yes, possess a plan and completely sent all drivers to receive training as planned		
2.8	Driver receive a scheduled health check-up, fully checking for the diseases that would obstruct driving. A check-up plan and result must be well-documented and followed-up before they can start working.	 Assess check-up plan of new and existing employees Assess the full medical check-up, adding the occupational risk factors including eye acuity, color blind, hearing, blood pressure, diabetes, and epilepsy Assess the driver's check-up result if the plan has been followed through. Review whether the monitor has been set up. Comparing last year and current year to see if any action has been taken to improve the result. 	No plan / or possess a plan but haven't sent any driver to receive training as planned	Yes, possess a plan but haven't sent all drivers to receive training as planned	Yes, possess a plan and completely sent all drivers to receive training as planned		

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Subject	Evaluation Details	Procedures / Evaluation Measures	Fail (1)/ require	Fair (3)	Good (5)		
2.9	Display the rules and responsibilities of employees including penalties and announce them for employees' acknowledgement	- Use any means to display rules and responsibilities of employees and ensure their acknowledgement such as employees' manual that describes rules and responsibilities or internal notice, etc.	None	Possess a manual or put up the notice but employees haven't known about it.	Possess a plan but not submitting it for scheduled inspection. Have a preemployment medical test and mid-year check- up		
Welfare	and Turnover						
2.10	Define working days and non- working days and properly operate (Law requires 10-hour rest break)	 Define working days and non-working days and announce them to employees Announce annual holidays for employees' information which can be put on a notice board 	None / In progress	Yes, but incomplete	Yes, and fully complied		
2.11	Office provided with facilities to help reduce driver's fatigue before retrieving document such as parking area, rest area, toilet	Check the actual facilities and inquire employees	None / In progress	Yes, but incomplete	Yes, and sufficient		

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				Score			Score
Subject	Evaluation Details	Procedures / Evaluation Measures	Fail (1)/ require	Fair (3)	Good (5)		
2.12	Provide enough safety	Randomly question the employees	Not enough for	-	Provide enough		
	equipment, prevention		operation		PPE		
	gears, individual safety						
	equipment such as helmet,						
	safety shoes, safety						
	glasses, reflective cloth						
2,13	Possess driver's	Check document or announcement or evidence	None / In	Have document	Possess		
	performance evaluation to	of provided reward and question the driver	progress	but incomplete	document and		
	incentivize the employees			evidence	fully complied		
	to do better and achieve						
	target by rewarding the						
	well performed employee						
	or providing welfare, etc.						
2.14	Gather the driver's	Review and analyze statistical document for	None	Data has been	Data has been		
	Turnover Ratio for	improvement		gathered but	gathered and		
	analyzing and finding out			not analyzed	analyzed for		
	reasons of resignation			for further	improvement.		
				development			

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				Score		Remark	Score
Subject	Evaluation Details	Procedures / Evaluation Measures	Fail (1)/ require improvement	Fair (3)	Good (5)		
Readine	SS						
2.15	Regularly perform alcohol	- Plan the alcohol check to ensure transport safety	None / In	Yes, but	Yes, and fully		
	check on driver before and	(if none, request for daily inspection document)	progress	incomplete	complied		
	after transport duties	- Use a standard and reliable breathalyzer					
		- If alcohol check was performed by the client,					
		present the evidence of test frequency. The					
		alcohol check should be performed on every					
		driver every day before and after work.					
		- Stipulate the guidelines of penalty in case the					
		alcohol or narcotic found in the breath					
2.16	Regularly perform narcotic	- The operator must present evidence including	None / In	Yes, but	Yes, and fully		
	check on driver	complete test plan and result of narcotic at	progress	incomplete	complied		
		least once every 3 months					
		- Stipulate the guidelines of penalty in case the					
		test shows the narcotic use					
2.17	Assess rest period of the	The operator must present time sheet recording	No control	Control time	Control time		
	driver that the period must	the driver's clocking in and clocking out time		but missing the	and fully		
	not be less than 10-hour as	each day and showing no less than 10-hour		10-hour target	complied with		
	required by law	turnaround		but more than 6	plan		
				hours			

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				Score			Score
Subject	Evaluation Details	Procedures / Evaluation Measures	Fail (1)/ require improvement	Fair (3)	Good (5)		
Monitori	ng						
2.18	Monitor driver's behavior when driving from the dashcam	 Perform random assessment of the monitoring from the driver's behavior evaluation form Consider the monitoring resulting Repeated wrongdoings of the same wrongdoer 	None / or only when the incident occurs	Yes, but only when the incident occurs and irregularly perform random monitoring	Yes, but only when the incident occurs and regularly perform random monitoring and follow-up		
Truck M	anagement						
Inspection	on		Γ	T	T		т.
3.1	Driver properly and thoroughly check the vehicle and does it regularly	Check document for accuracy and thoroughness of the vehicle check	None / In progress	Yes, but incomplete and incorrect	Yes, and completely complied and correct		
3.2	Conditions of the truck and its equipment are clean and ready for work.	Assess by checking the truck onsite whether it is complied with regulations such as truck's life expectancy, equipment being maintained in the efficient state	Improper condition, inadequate equipment	Adequate equipment but part of them are out of order	Good condition, adequate equipment, clean and ready to be used		

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		Procedures / Evaluation Measures	Score			Remark	Score
Subject	Evaluation Details		Fail (1)/ require improvement	Fair (3)	Good (5)		
Preventi	ve Maintenance						
3.3	Set up the vehicle inspection and periodic maintenance plans to be properly handled	 Set up vehicle inspection and periodic maintenance plans to ensure of matter and time to proceed Manage repairs record sheets identifying repaired items, defect items, date of repairs, and mechanic or garage's names 	None / In progress	Yes, but incomplete	Yes, and completely complied		
3.4	Conduct vehicle usage log and maintenance/repairs record of each vehicle	Possess a file for maintenance/repairs record of each vehicle	None / In progress	Yes, but incomplete	Yes, and completely complied		
3.5	Monitor the vehicle for Unplanned Breakdown	Gather monthly information on numbers of broken car during transport to monitor transport delay and expense for external repairs The control index should be set up basing upon the number of broken cars per total cars such as 5%, etc. by collecting data on break down indication to analyze and find solution.	None	Yes, but not monitored	Yes, completely complied		
3.6	Provide replacement car during repairs	Review the number of vehicles being stated in the contract and spare the number of similar types of car, including the spare car, at the company or at other car's fleet that can be arranged for replacement.	None		Yes		

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			improvement	Fair (3)	Good (5)		
Safety E	quipment						
3.7	Truck must be fully and	Assess the truck's safety equipment onsite	None / Yes but	Yes, but not	Yes, and		
	properly equipped with good-		not complete /	matched the	matched the		
	condition safety equipment		In progress	specifications	specifications		
	such as warning triangles for						
	emergency parking, reflective						
	cones, and emergency road						
	flares, etc.						
3.8	Install the vehicle tracking	Assess GPS equipment and inspect the truck onsite	None / Yes but		Yes, complete and		
	system for real-time status		not complete /		matched the		
	of truck and goods by using		not matched the		specifications		
	GPS		specifications / In				
			progress				
3.9	Monitor the driver's behavior	Inspect the actual camera whether it can record	None or not	Monitoring but	Monitoring,		
	through installed dashboard	incidents both inside and outside of vehicle's cabin	record incidents	not completely or	Recording and		
	camera		inside and outside	not dealing with	dealing with the		
			of cabin	the misbehavior	misbehavior		
				occurrence	occurrence		
				against	against		
				regulations	regulations		

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Subject	Evaluation Details	Procedures / Evaluation Measures	Fail (1)/ require		- 1(-)		
			improvement	Fair (3)	Good (5)		
Monitor	ing System						
3.10	Use GPS to monitor vehicle	Assess the onsite system for the actual monitoring	No monitoring /		Monitor once		
	and goods not to go off route	comparing to the delivering route information	only monitor		receiving alert		
			when receiving		notification /		
			alert		randomly		
			notification		monitoring		
Other							
3.11	Office of the operator, parking	Area is tidy and safe, provide adequate lighting,	None	Yes, but not	Yes, and proper		
	area, and maintenance garage	and properly equipped with fire extinguisher.		proper			
	are located properly,						
	convenient for operation and						
	reducing impact on						
	surrounding community						
3.12	Repairs in internal operated	Review academic records of the mechanics or	None	Yes, but partial	Have academic		
	auto shop must be	certificates relating to maintenance. Not			records or		
	proceeded by trained and	allowing the trainee to repair the vehicles			certificates of		
	certified mechanic.	without supervision of all time			maintenance or		
					send the vehicles		
					to repair at the		
					authorized shop		

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Subject	Evaluation Details	Procedures / Evaluation Measures	Fail (1)/ require	Fair (3)	Good (5)			
			improvement	Fair (3)	G000 (5)			
Journey	ourney Management							
Risk and	Routing Management							
4.1	Set up rest area and risk zone	Assess documents and completeness	No assessment	Conduct	Conduct 100%			
	based on Route Hazard Analysis	(Consider number of routes and potential risk		assessment but	assessment on			
	on all route or regulate safety	management)		not 100% on all	all routes with			
	driving procedures (in case			routes or no	driver's self-			
	contract owner has numerous			driver's self-	assessment and			
	clients and unable to assess			assessment	signed by the			
	hazard on all routes) and				assessor			
	disseminate to driver for							
	compliance							
Route H	azard Assessment							
4.2	Lay down transport route and	Review documents and inquire the driver about it.	None	Yes, there is route	Yes, there is			
	time and inform the driver	Route briefing is be for the order of new customer or		hazard	proper route			
	before giving out order and	first time driving to the area.		assessment but	hazard			
	commencing work			not properly	assessment			
4.3	The driver conducts the route	Assess work procedures and record the meeting	None		Yes			
	assessment and request to add							
	details in Route Hazard Analysis							
	when there are any changes.							

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Journey	Management						
4.4	Assign a person to oversee GPS activities, provide 24-hour monitoring or supervise through transport duration. Provide speaker and microphone for two-way	Assess whether GPS monitoring has been carried out onsite	None				
GPS Mor	communication						
4.5	Set up alert system as required by the company or not 1. 4-hour long drive 2. Parking on the shoulders of roadways or no stopping hazard zone 3. Speeding over limit 4. Entering restricted driving zone	 Provide daily inspection records indicating the list of inspected items and results of any truck's abnormalities. Provide evidence of every warning given to the driver / Set up alert management as required by the company 	None	Yes, but not monitored	Yes, completely complied		

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4.6	Perform random inspection	- Provide monthly inspection records indicating	None	Yes, but not	Yes, completely		
	of driver's behaviors or not /	the list of inspected items and results of any		monitored	complied		
	Conduct record and follow up	driver's misbehaviors					
	on driver's behaviors	- Provide evidence of every warning given to					
	improvement or not	the driver / Set up alert management as					
		required by the company					
Emerger	ncy Response						
Emerger	ncy Response Plan						
5.1	Provide manual for emergency	- The operator must provide telephone number	No manual /	Have manual	Has manual and		
	management during transport	for emergency alert and manual for emergency	No number /	but no	fully complied /		
	that breaks down the steps to	management	In progress	clarification or	Has updated		
	be taken and critical	- Provide emergency plan that covers all		the driver has	contact		
	information for the driver to	incidents such as an unconscious driver or		no understanding	numbers		
	promptly and properly handle	scattered goods blocking the road, etc.		or obsolete			
	each incident. The drivers can	- Interview the driver whether they clearly		contact phone			
	understand instructions and	acknowledged the procedures.		numbers			
	operate. Emergency numbers	- Review the evidence and consider the					
	are displayed on the side of	precedent cases and proceed as actual					
	the truck which are available	circumstances may require					
	24 hours a day in case of						
	emergency.						

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5.2	Assign a person to oversee	Assess the evidence on the vehicle and consider	None, in	Yes, but not	Yes, and proper		
	emergency response in case	the precedent cases and proceed as actual	progress	proper and can't			
	of the truck accident on the	circumstances may require		be operated			
	road. In case of hazardous or						
	chemical substance truck,						
	assemble the emergency						
	response team						
Emerger	ncy Response Drill						
5.3	Collaborate with contract	Possess plan and result. If no plan being executed	None, in	Yes, but not	Yes, completely		
	owner to provide training	for the current year, consider the previous year's	progress	complete	complied		
	and emergency response	plan and result					
	drill by stimulating the real						
	incident, as well as an						
	annual review at the						
	minimum						

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Appendix 5. Criteria for evaluation and selection of the carriers

The selection of carriers must consider the safety capacity evaluation pursuant to the Carriers Evaluation Form with the following criteria and procedures:

Score	Evaluation Criteria
≤ 80%	Eligible to be selected for services
65% ≤ score < 80%	Eligible to be selected for services but require quality improvement of the activities with the scores lower than 80%
50% ≤ score < 65%	Ineligible to be selected. Need quality improvement of the activities with the scores lower than 65%
0% ≤ score < 50%	Ineligible to be selected. Wait until next re-evaluation

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Score	Procedures	
≤ 80%	Eligible to continue using the service	
65% ≤ score < 80%	- Issue a warning letter for quality improvement of the	
	activities with the scores lower than 80% within 2 months	
	- If the quality can't be improved within 2 months, issue the	
	2 nd warning letter for improvement it within 1 month	
	- If there is no improvement, consider additional measures to	
	be applied.	
50% ≤ score < 65%	- Issue a warning letter for quality improvement of the	
	activities with the scores lower than 65% within 2 months	
	- If the quality can't be improved within 2 months, issue the	
	2 nd warning letter for improvement it within 1 month	
	- If there is no improvement, consider additional measures to	
	be applied.	
0% ≤ score < 50%	Reduce the work by 50% until the improvement of all activities	
	with the scores lower than 65% or terminate the contract	

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Appendix 7. Supporting documents required from the carriers before starting work

Driver

- 1) Copy of the driver's valid identification card
- 2) Copy of the driver's valid driving license
- 3) Application form of the driver
- 4) Health examination result of the driver
- 5) Driver's record of training in Safety Driving Course
- 6) Result of the driving aptitude test of the driver
- 7) Result of the knowledge test of traffic regulations and highway code of the driver

Truck

- 1) Truck registration manual
- 2) The carriers must provide the trucks for vehicle's required inspection by the contract owner before putting in service.

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Appendix 8. Penalty criteria for the carrier upon a breach of safety standards

1. Considering penalty for the carriers in case of the incident occurrence

Upon the occurrence of accident during transportation, the penalty will be considered basing on the severity level in accordance with the table provided below:

Incident's Severity	Fine per incident
Level 1	Conduct the report summarizing the cause and plan of actions (CA/PA)
Level 2	Issue a fine, based on the value determined by each business for each accident and
	Suspend the service for the period no longer than 6 months or until the service improvement completed
Level 3	Issue a fine, based on the value determined by each business for each accident and
	Suspend the service right away until the carrier comes up with effective prevention plan which has been approved by the Business Committee

2. Considering penalty for the carriers in case of violating Traffic Law and Life Saving Rules *

Level	Penalty for Individual (Carrier)	Penalty for Company
Level 1	Forbid the carriers to work with the	Issue the letter requesting to comply
	company in accordance with the	with prevention measures and issue a
	conditions of - 3 days, 7 days, permanently	fine (not exceeding 5,000 Baht)
Level 2	Forbid the carriers to work with the	Issue the letter requesting to comply
	company in accordance with the	with prevention measures and issue a
	conditions of - 7 days, permanently	fine (between 10,000-20,000 Baht)
Level 3	Forbid the carriers to work with the	Issue the letter requesting to comply
	company in accordance with the	with prevention measures and issue a
	conditions of - permanently	fine (not exceeding 20,000-50,000
		Baht) and/or Suspend the service for
		the period no longer than 6 months

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3. Considering penalty for the carriers in case of violating Behavior Based Safety and considering penalty in case of the truck and its equipment are not in proper condition for work

Level	Penalty for Individual (Carrier)	Penalty for Company	
Level 1	Issue the warning letter, in writing	Issue the letter requesting to comply	
		with prevention measures and issue a	
		fine (not exceeding 2,500 Baht)	
Level 2	Forbid the carriers to work with the	Issue the letter requesting to comply	
	company (no longer than 3 months)	with prevention procedures and issue	
		a fine (not exceeding 5,000 Baht)	
Level 3	Forbid the carriers to work with the	Issue the letter requesting to comply	
	company (no longer than 6 months)	with prevention procedures and issue	
		a fine (not exceeding 10,000 Baht)	

Note: Contract owner will determine the Behavior-Based Safety such as engine cut out, chock blocks, key leaving in the ignition when not being in the vehicle.

For the penalty in levels 2 and 3, in case the same person acts in violation of the same mistakes, the consideration of penalty shall be elevated to the next level immediately. For instance,

- On August 10, 2018, the alcohol check on Mr. A found positive for alcohol use will be carried Level 1 penalty.
- On September 12, 2018, the alcohol check on Mr. A found positive again for alcohol use will be carried Level 2 penalty.
- On October 15, 2018, the alcohol check on Mr. A found positive again for alcohol use will be carried Level 3 penalty.

For the case that the same group of employees who are under employment contract with the carrier's company act in violation of the same mistakes, the consideration of penalty shall be based on the accumulated violation and be consecutively increased as per the following details:

- Level 1: an accumulation of 5 violation, the next violation will be increase to Level 2 penalty.
- Level 2: an accumulation of 5 violation, the next violation will be increase to Level 3 penalty.
- For the violations that have been elevated to Level 3 penalty, the next violation will be carried Level 3 penalty or considered the increase of penalty subject to the opinion of the Investigation Committee.

In case of repeated violation, the consideration of penalty shall be commenced from the latest level of penalty being considered. The increase in penalty level shall be determined by accumulated violation from the violation count of both penalty levels.

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The number of violations is accumulated within the calendar year (January 1 - December 31). The violation count will be reset and started over in the new calendar year.

If the investigation team considered that the consequences associated with the violation are highly serious, or the behavior has the tendency to cause the repeated violation, the investigation team can elevate the penalty level as they deem fit.

4. Considering penalty for the carriers in case of equipment/tools or GPS malfunction, camcorder failure or not turning-on and in case of inability to retrieve videos footage after the accident

Equipment/Tools	Penalty for Company
- equipment or GPS malfunction	issue a fine not exceeding 1,000 Baht per time
- camcorder failure or not turning-on	
- inability to retrieve videos footage	issue a fine not exceeding 20,000 Baht per
after the accident	time

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Appendix 9. Procedures and list of drivers' health check-up

- 1. Process pre-employment medical screening during job interview that the driver must have no medical conditions that could be the source of danger while driving and no diagnosis of 10 diseases that appear as nasty conforming to Sections 46 (4), (5), (6), and Sections 49 (6), (7) of the Vehicles Act B.E. 2522 (1979) and Medical Examination Procedures for Medical Certificate Issuance for driving license and driving license renewal applicants of the Department of Land Transport as described below:
 - 1) Leprosy
 - 2) Tuberculosis
 - 3) Elephantiasis
 - 4) Disease of addiction
 - 5) Chronic diseases of toxic liquor
 - 6) Psychoneurosis
 - 7) Uncontrollable epileptic seizure
 - 8) Brain surgery recipient
 - 9) Diabetes with insulin injection
 - 10) Myocardial infarction or bypass graft surgery recipient, or balloon angioplasty recipient
- 2. Provide check-up to screen the medical conditions that could be the source of danger while driving and unpleasant diseases previously mentioned in No. 1 as per the following list:
 - 1) Body examination by the Doctor
 - 2) Lung x-ray
 - 3) Blood sugar level
 - 4) Blood fat level
 - 5) Complete blood count
 - 6) Liver function tests
 - 7) Renal function test
 - 8) Urinalysis
 - 9) Analysis of Narcotics in Urine
 - 10) Visual Acuity
 - 11) Audiogram
 - 12) Lung function test

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- 3. Schedule the doctor to assess the driver's fitness for duty as well as interview for medical history taking. Medical examination as per the list mentioned in No. 2 will be considered to screen out the diseases stated in No. 1. The interview will further sort out 7 high-risk group diseases specified by the Driver and Vehicle Licensing Agency, the United Kingdom and Department of Transportation, the United States of America:
 - 1) Cardiovascular disease
 - 2) Vision and hearing
 - 3) Parkinson's disease
 - 4) Nervous and brain disease
 - 5) Under antidepressants or anti-drowsiness medication
 - 6) Musculoskeletal disorders
 - 7) Arterial hypertension
- 4. Enable the doctor to comment on the assessment of driver's fitness for driving and determine the driver's readiness to drive
- 5. Organize the health check-up to evaluate the driver's fitness for duty at least once a year

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Appendix 10. List of emergencies during transports by level of the incidents

Incidents	Level of Severity		
1	Transportation Breakdown but the driver can repair within		
	the limited time and continue to drive, such as flat tire, out		
	of fuel, broken taillights		
2	Transportation Breakdown and unable the driver to continue		
	to drive, such as engine failure, propulsion system		
	malfunction		
3	Transportation Accidents such as car flipping upside down,		
	crashing into people, or grazing by other car, resulting in		
	property damage, injured or fatalities		
4	Truck accident causing pallet leak, overturned truck with		
	fallen and scattered products around the area, or truck		
	plunging into the river		
5	Truck accident and the driver lost consciousness or the truck		
	stops moving for more than 20 minutes		

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Appendix 11. Examples of the learning courses for the drivers

Item	Courses	Main Topics
1.	Safety Driving Course (SDC) with Refresher	a. Attitude and awareness on safety driving
	Training in theory every year	b. Preparation of body and mind condition of
		the driver
		c. Preparation of vehicle for transport
		d. Defensive driving
		e. Evaluation, control, and resolving the
		abnormal situation and emergency
		f. Fatigue management
		g. Fuel efficient driving
2.	In-Cab Coaching	
3.	Practices in Industrial Factories	a. Life Saving Rules for factory works
		b. Traffic regulations in the factory
4.	Instructions in case of emergency during	a. Definition of emergency
	transportation	b. Emergency response
		c. Emergency drill

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Appendix 12. Examples of Key Performance Indicators (KPI) of the carriers

Lagging KPI

- 1) Number of fatalities among of drivers, litigants, or third party
- 2) Number of transport accident that results in time away from work (Lost Time Incident: LTI or Day Away from Work Case: DAWC)
- 3) Number of truck accidents that the severity results in temporarily reassigned job functions (time Restricted Work Case: RWC) or requires basic medical treatment (Medical Treatment Case: MTC)
- 4) Number of accidents from goods transport that the severity requires first aid treatment (First Aid)
- 5) Number of incidents that occur and lead to the following damages:
 - a) goods
 - b) products leakage that have impacts on various aspects such as environment of communities

Leading KPI

- 1) Violation of Traffic Law
 - a) number of incidents that the driver does not take a 20-minute rest break for every 4-hour driving
 - b) number of incidents that the driver drives in the restricted area
 - c) number of speeding over limit
 - d) number of incidents of parking on the shoulders of roadway
- 2) Violation of "Life Saving Rules"
 - a) number of violations of "Life Saving Rules"
 - b) number of repeated violations
 - c) amount of violation fees
- 3) Behavior-Based Safety: BBS
 - a) number of hazardous behaviors which require the behavior assessment of the driver from dashcam record at least one time per person per month
 - b) number of unsafe behaviors of the drivers
- 4) Preparedness of Truck and Equipment
 - a) number of incidents that the truck or equipment are not well-prepared for operation
 - b) number of parking on the shoulders of roadways or emergency parking from unprepared truck and equipment