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2	22/04/2015	Response LSP's Comments	ERM	See attachment of reviewer's signature	
1	25/02/2015	Response LSP's Comments	ERM	See attachment of reviewer's signature	
0	14/01/2015	Issue For Review	ERM	See attachment of reviewer's signature	
REV.	DATE (dd/mm/yyyy)	DESCRIPTION	PREPARED	CHECKED	APPROVED

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ATTACHMENT OF REVIEWER'S SIGNATURE

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3	Le Duy Dong	HSE Manager	
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REVISION LOG

Rev.	Date (dd/mm/yyyy)	Item	Page	Article	Revised Detail Description
0	14/01/2015	all	all	all	Issue For Review
1	25/02/2015	all	all	all	Response LSP's Comments
2	22/04/2015	all	all	all	Response LSP's Comments
3	18/08/2016	All	All	all	Response to MM EPAP for Comment

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ACRONYMS


BOC	Balance of Complex
CTU	Central Utility Plant
EHS	Environmental, Health and Safety
ESIA	Environmental and Social Impact Assessment
HDPE	High Density Polyethylene
HSE	Health, Safety and Environment
HSSE	Health, Safety, Security and Environment
IFC	International Finance Corporation
LLDPE	Linear Low Density Polyethylene
LSP	Long Son Petrochemicals
MP	Management Plan
PP	Polypropylene
QCVN	National Technical Regulation

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DISCLAIMER

It is upon the Contractor to solicit, acquire and comply with all information, laws, rules, regulations, and Applicable Standards which is/are necessary and/or required for and applicable to the Contractor's performances of the works hereunder.

The Contractor hereby agrees and acknowledges that the Employer makes no representation or warranty, express or implied, regarding the accuracy or completeness of any or all information, laws, rules, regulations, and Applicable Standards which is/are necessary and/or required for and applicable to the Contractor's performances of the works hereunder. THE EMPLOYER HEREBY EXPRESSLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ALL RESPECTS, and the Contractor agrees that neither the Employer nor any of its affiliate(s), director(s), officer(s), employee(s), consultant(s), professional advisor(s), and duly authorised representative(s) shall have any liability to the Contractor or any of its affiliate(s), director(s), officer(s), employee(s), consultant(s), professional advisor(s), and duly authorised representative(s) in any way relating to those information, laws, rules, regulations, and Applicable Standards which is/are necessary and/or required for and applicable to the Contractor's performances of the works hereunder or the Contractor's or its affiliate(s)', director(s)', officer(s)', employee(s)', consultant(s)', professional advisor(s)', and duly authorised representative(s)' reliance thereupon and/or use thereof.

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1. INTRODUCTION

1.1. PURPOSE AND SCOPE

The purpose of this Traffic Management Plan (Terrestrial) is to set out the *[insert contractor name here]* approach to manage and mitigate the residual impacts of traffic (terrestrial) that they have control over, as identified in Chapter 18 of the project's Environmental and Social Impact Assessment (ESIA) and the Long Son Petrochemical's (LSP) Construction Health, Safety and Environment Management Plan (ref: LSP-1S01-005).

It should be noted the information in this Traffic MP (Terrestrial) is based on relevant regulations, guidelines and standards at the time of writing of the up-dated ESIA dated September 2016. Should the contractor's activities change or new regulations, guidelines or standards apply the contractor will review, amend and resubmit this Traffic MP (Terrestrial) to LSP.

[Note to contractor: If your onsite activities are not associated with traffic (terrestrial), you do not need to complete this template but you will need to provide justification that your activities are not associated with the sources of traffic (terrestrial) impacts detailed in Section 1.3]


1.2. PROJECT OVERVIEW

The Long Son Petrochemicals Complex Project is located in Hamlet 2 and Rach Gia Hamlet, Long Son Commune, Vung Tau City, Ba Ria – Vung Tau Province, Vietnam. The Complex is spread over 464 ha, including area for its future expansion.

The Project will be comprised of two (2) main components:

1) **The Petrochemical Plant**, which consists of the following plants and units:

- Main Production Plants
 - Olefins Plant
 - High Density Polyethylene (HDPE) Plant
 - Linear Low Density Polyethylene (LLDPE) Plant
 - Polypropylene (PP) Plant
- Supporting Units
 - Central Utility Plant (CTU) (contains a Steam Generation Unit and Water Plant)
 - Tank Farm
 - Common Infrastructure

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2) The Seaport, which consists of the following components:

- Hydrocarbon Jetty - to transfer feedstock and product for the Petrochemical Plant
- Construction Jetty - to import construction materials, including heavy lift modules.

The total land area that will be acquired for the Project is 464 ha, consisting of 398 ha for the Complex, and 66 ha for the specific port. In addition, there is a total water surface area of 194 ha that will be acquired for the seaport.

1.3. SOURCES OF TERRESTRIAL TRAFFIC IMPACTS

The potential sources of terrestrial traffic impacts are associated with the following activities:


- Transport of backfilling materials to the site;
- Transport of construction materials and equipment to the site;
- Transport of waste from the site to disposal/treatment sites; and
- Transport and traffic from workers working at the site.

The construction schedule for the sources of terrestrial traffic impacts is shown in Annex A.

[Note to contractor: Contractor to insert Gantt chart of construction schedule in Microsoft Project Office format in Annex A, which should include a breakdown of the tasks associated with the sources of terrestrial traffic impacts, as noted above]

1.4. APPLICABLE STANDARDS

The applicable terrestrial traffic standards during construction are International Finance Corporation (IFC) General EHS Guidelines (3.4): Traffic Safety.

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2. ROLES AND RESPONSIBILITIES

2.1. INTRODUCTION

Having an appropriate organisational structure in place, with all people having defined roles and responsibilities, is essential to ensuring the overall success of this Traffic MP (Terrestrial). This section provides details of LSP's and the contractor's organisational structure with regards to onsite delivery of the LSP project, and the various roles and responsibilities of those people in relation to delivering the clients EHS expectations, including meeting the requirements of the Construction Health, Safety and Environment Management Plan.

2.2. LSP CONSTRUCTION HSSE TEAM

LSP's health, safety, security and environmental (HSSE) team will lead the management of HSSE issues concerned with terrestrial traffic with the on-the-ground enforcement being undertaken by the Security Teams. The LSP organisational chart to implement the requirements of this Traffic MP (Terrestrial) is shown in the figure below. The specific roles and responsibilities are shown in Chapter 5 of the LSP Construction Health, Safety and Environment Management Plan (ref: LSP-1S01-005).



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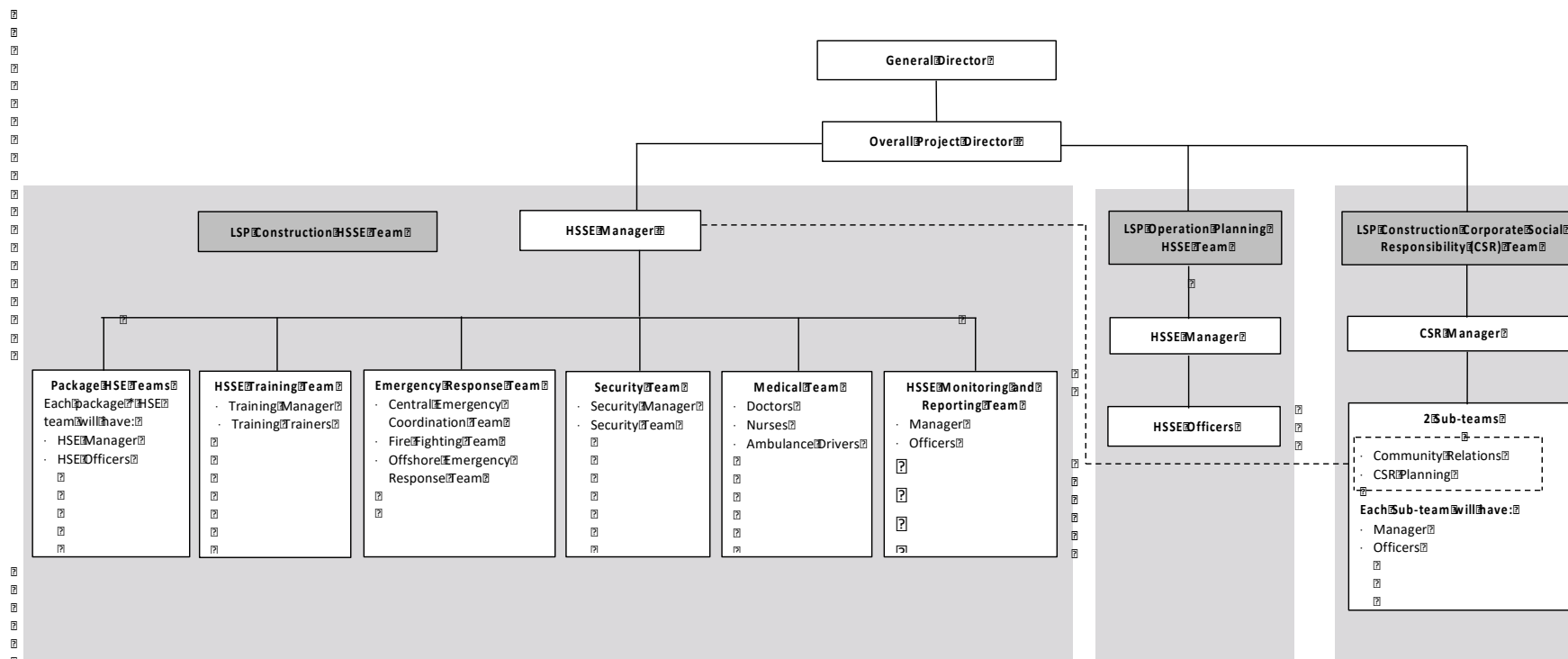
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Note:

Package A: Defines Plant, Tank Farm, Complex Interconnecting Pipelines/pipe racks, and development in Tank Farm Area, topside facilities of hydrocarbon jetties, complex wastewater treatment unit and H2S flare/LP flare system

Package B: C/D: Polyolefins Plant (HDPE/PP/LLDPE)


Package F: Sea Port (excluding topside of the Hydrocarbon jetties and construction jetties which are under the scope of the Contractor Package A and Package B respectively)

Package G: Central Utility Plant (including steam generation unit and water plant)

Package H: Common infrastructure in the complex (including Administration Building, Laboratory Building, Canteen Building, Emergency Center, First Aid Center and Polyolefins Product Warehouse)

Package I: Complex road including drainage, street lighting, CCTV, green area, topside for construction jetties, complex truck scale, and blowdown system

Package L: Land development work in the whole complex except Tank Farm Area

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2.3. *CONTRACTORS HSSE TEAM*

The contractors HSSE team has established this Traffic MP (Terrestrial) in accordance with the applicable standards. The contractors HSSE team will manage their contractors and suppliers in accordance with this Traffic MP (Terrestrial) and liaise with the appropriate personnel within LSP's HSSE, as shown in the chart above, to ensure compliance with the overall aims of LSP's Construction Health, Safety and Environment Management Plan (ref: LSP-1S01-005).

The contractors onsite organisational chart to implement the requirements of this Traffic MP (Terrestrial) is shown in the figure below.

[Note to contractor: Contractor to insert organisational chart for onsite team].

2.4. *DESCRIPTION OF ROLES AND RESPONSIBILITIES*

The contractor has committed to providing the necessary human resources to ensure that the organisational structure noted above can work to implement this Traffic MP (Terrestrial) and achieve compliance with all relevant standards. A description of the key roles and their responsibilities are provided in the **Table 2.1**, including the primary communication channel between LSP and contractor HSE teams. Employee contact details for each role associated with this Traffic MP (Terrestrial) are provided in Annex B.



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Table 2.1 EHS Roles and Responsibilities within Contractor's Project Team

Role	Responsibilities
General Manager (Contractor)	
Senior Site Engineer (Contractor)	
Site Supervisor / Foreman (Contractor)	
Site EHS Officer (Contractor)	
Emergency Response Co-ordinator (Contractor)	
[Other]	
[Other]	

[Note to Contractor: Insert a description of the responsibilities of each role, with regards to the management of EHS and traffic (terrestrial). Delete roles that are not appropriate. Include additional roles where required.]

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3. **MITIGATION / MANAGEMENT PROCEDURES**

The mitigation / management procedures noted in this section provides the approach to managing traffic (terrestrial) impacts during construction. The contractor is committed to implementing the identified mitigation / management procedures in order to not cause exceedance of the applicable terrestrial traffic standards, and to avoid impacts on the local community.

The mitigation / management measures that are relevant to *[insert contractors name here]* onsite activities are shown in *Table 3.1*.

The mitigation / management procedures were identified within the ESIA as being appropriate for the environmental impacts resulting from the anticipated construction activities. Should terrestrial traffic impacts arise from the contractor's activities, following the implementation of the procedures noted in *Table 3.1*, the contractor will review the need for additional measures to be taken and update this Traffic MP (Terrestrial) accordingly.

Note to contractor: Delete mitigation / management measures which are not applicable or outside of your control. Insert the name of the responsible party from Table 2-1 for each mitigation / management measure.




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Table 3.1 Mitigation / Management Procedures


Aspect, Potential Impact/Issue	Mitigation Reference	Mitigation and / or Management Procedures	Contractors Responsibility	Related Plans
Impacts due to Fugitive Dust from Soil Disturbance during the Construction Phase	1.1	Ensuring that all vehicles traverse only designated access routes.		Air Quality Management Plan (Point Sources) (ref: LSP-1S01-0008)
Air Quality Impacts due to Transportation activities during the Construction Phase	1.2	Assign haul routes away from sensitive areas where possible.		Air Quality Management Plan (Point Sources) (ref: LSP-1S01-0008)
	1.3	Install wheel washing facilities at appropriate positions from the site entrance.		Noise Management Plan (ref: LS{-1S01-0009)
Noise Impact from Road Transportation during the Construction Phase	1.4	Avoid night-time and transportation during peak hours where possible.		Noise Management Plan (ref: LS{-1S01-0009)
	1.5	Reduce Project traffic routing through community areas wherever possible. Reduce transportation by roadway, using waterway if possible.		Noise Management Plan (ref: LS{-1S01-0009)
	1.6	Enforce a speed limit for all vehicles entering the Project area, and promote safe driving through community areas. At the construction sites, the speed limit is 10 km/h.		Noise Management Plan (ref: LS{-1S01-0009)
	1.7	Haul routes for construction traffic entering and leaving the site will be selected to ensure noise levels for noise sensitive receptors are kept at a minimum.		Noise Management Plan (ref: LS{-1S01-0009)

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Aspect, Potential Impact/Issue	Mitigation Reference	Mitigation and / or Management Procedures	Contractors Responsibility	Related Plans
Impacts from Run-off Water to Surface Water Quality during Land Development	1.8	<p>It is likely that a range of temporary access roads will be required to be developed throughout and immediately adjoining the Project Site. The main access to the site area will be via the formal access road which is to be constructed prior to works commencing. Locating, constructing and managing the smaller access roads can limit impacts to surface water quality. Measures include:</p> <ul style="list-style-type: none"> a) Careful routing of access roads, as much as possible, to reduce the need to any crossing of natural water courses. b) Careful routing of access roads, as much as possible, to reduce the need to clear any vegetation in close proximity to natural water courses. c) Careful routing of access roads should also limit the need for large amounts of cut or fill to be used. Considering the flat nature of the site, this is anticipated to be of limited concern. d) Selected access roads (particularly those outside of the Project footprint) to be formalised and communicated to all personnel. Access outside of these roads to be limited to avoid disturbing other areas of vegetation and soil. e) Temporary trafficked areas and access roads formed during construction will be constructed as appropriate to their location, use and length of time they are to be utilised for. This may include the use of coarse stone ballast (or equivalent), forming in fall grades along the road to direct runoff into a flat channel type drain, installation of stormwater drainage features as appropriate, install appropriate drain outlets/culverts/pipes and ensure that any spoil, waste materials or vegetation is not left where it will impede any surface water management features developed. These measures should either prevent or manage surface water flows with high TSS levels 		Surface Water Management Plan (Terrestrial) (ref: LSP-1S01-0010)

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Aspect, Potential Impact/Issue	Mitigation Reference	Mitigation and / or Management Procedures	Contractors Responsibility	Related Plans
Impacts on Cultural Heritage during the Construction Phase	1.9	LSP and the EPC contractor should cooperate with local authorities to establish and implement a special traffic regulation and safety plan for the Project on annual festival days of Nha Lon Long Son. Construction or road traffic activities will be possibly stopped or minimised during the festival days.		-
Impacts on Community Health and Safety due to Construction Activities (excluding the influx related impacts)	1.10	All new drivers employed throughout the course of the Project's construction (including contractors for construction material transportation) will be required to undergo safety training.		Worker Training Management Plan (ref: LSP:1S01-0003)
	1.11	Random drug and alcohol tests shall be undertaken on drivers.		-
Impacts to Road Traffic during Construction Phase	1.12	Departure and arrival times and hours driven shall be logged.		-
	1.13	Appropriate mitigation measures should be installed in consultation with the local authorities such as installing temporary speed bumps and/or provide traffic wardens to control the traffic speed in residential areas and sensitive locations along the roads being used by construction traffic.		
	1.14	The Project will consider HSE measures that need to be taken to ensure the safe passage of pedestrians and animals at narrow sections of the roads, which may include but, is not limited to, the installation of appropriate warning signs. If appropriate traffic awareness and safety training to be given to school classes.		

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4. MONITORING

4.1. LSP HSSE TEAM

An environmental monitoring plan has been developed to track the effectiveness of the mitigation measures during construction. Details of LSP's environmental monitoring plan are provided in Chapter 7 of LSP's Construction Health, Safety and Environment Management Plan (ref: LSP-1S01-005).

4.2. CONTRACTORS TEAM

In order to assess the effectiveness of the mitigation / management measures and identify the need for further action, the contractors traffic (terrestrial) monitoring programme outlined in *Table 4.1* will be followed.

Should the monitoring programme note any non-compliances with the MP, corrective action will be taken to ensure the relevant activity returns to compliance in a timely manner and that any corrective action is appropriate and effective. Any corrective actions undertaken must be recorded on the daily report against the relevant activity.

Note to contractor: Delete rows that are not applicable or outside of your control and, in the second column, only include the reference to relevant mitigation / management measures. Insert the name of the responsible party from Table 2-1 for each of the separate monitoring requirements.



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Table 4.1 Monitoring Programme

Aspect, Potential Impact/Issue	Reference of Relevant Mitigation Measure	Sampling Location	Sampling Parameters	Sampling Frequency	Applicable Standards	Responsibility	Reporting
Impacts due to Fugitive Dust from Soil Disturbance	1.1	Transportation routes being used by contractors	Visual inspection	Daily	N/A		Daily (refer to example Daily Reporting form in Annex C)
Air Quality Impacts due to Transportation activities	1.2	Haul routes being used by contractor	Visual inspection	Daily	N/A		Daily (refer to example Daily Reporting form in Annex C)
	1.3	Wheel wash stations under contractors control	Visual inspection	Daily	N/A		Daily (refer to example Daily Reporting form in Annex C)
Noise Impact from Road Transportation during the Construction Phase	1.4, 1.5, 1.6, 1.7	Transportation routes being used by contractors	Visual inspection	Daily	N/A		Daily (refer to example Daily Reporting form in Annex C)
Impacts from Run-off Water to Surface Water Quality during Land Development	1.8	Temporary access roads under contractors control	By design	When new temporary access is required	Design requirements		Design drawings approved by EPC
Impacts on Cultural Heritage	1.9	Preparation of special traffic regulation and	Visual inspection	Festival days	N/A		Traffic Regulation and Safety

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Aspect, Potential Impact/Issue	Reference of Relevant Mitigation Measure	Sampling Location	Sampling Parameters	Sampling Frequency	Applicable Standards	Responsibility	Reporting
during the Construction Phase		safety plan in consultation with local authorities for annual festival days					Plan for annual festival days
Impacts on Community Health and Safety due to Construction Activities (excluding the influx related impacts)	1.10	Drivers under the contractors control	Successful completion of safety training	Once - commencement of employment and daily spot checks at wheel wash	N/A		Driver Safety Training Register Daily (refer to example Daily Reporting form in Annex C)
	1.11	Drivers under the contractors control	Drug and alcohol	Random	Zero Tolerance		Drug and Alcohol Testing Monitoring Form
Impacts to Road Traffic during Construction Phase	1.12	Vehicles under contractors control	Times and hours driven logged	Daily at wheel wash	N/A		Driving logging Form
	1.13, 1.14	Transportation routes being used by contractors	Visual inspection	Daily	N/A		Daily (refer to example Daily Reporting form in Annex C)

* See Table 3-1 for mitigation measure.

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5. AUDITING AND REPORTING

An Auditing and Reporting Programme is required to ensure that the mitigation / management measures are appropriate in controlling the identified impacts from traffic (terrestrial).

5.1. LSP HSSE TEAM

To ensure compliance with the requirements of this Traffic MP (Terrestrial), internal inspections and audits will be undertaken by LSP. The LSP auditing and reporting programme is shown in Chapter 9 of the LSP Construction Health, Safety and Environment Management Plan (ref: LSP-1S01-005).

5.2. CONTRACTORS TEAM

The programme will comprise of the following:

- Internal Audit and Reporting Programme to be undertaken by the contractor's EHS Officer; and
- External Audit and Reporting Programme, to be conducted by the LSP's representative.

The scope of the internal auditing and reporting programme to be undertaken by the contractor is shown in *Table 5.1*.

Note to contractor: In the second column, only include the reference to relevant mitigation / management measures. Ensure the job title for the responsible party is correct for your organisation.



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Table 5.1 Auditing and Reporting Programme

Inspection / Auditing Interval	Reference of Relevant Mitigation Measure*	Responsibility	Scope of Inspection / Audit	Report Submission / Record Keeping
Daily Inspection (Internal)	1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.10, 1.12, 1.13, 1.14	Contractor's Onsite EHS Officer	Review the submitted daily monitoring reports to assess the compliance status of relevant operations that may give rise to traffic (terrestrial) impacts and provide support to identifying appropriate corrective actions and ensuring they are: introduced in a timely manner; appropriate; and effective	Archive Daily Monitoring Report in an orderly manner for external auditing
Ad hoc Inspection (Internal)	1.8 (when new temporary access is required), 1.9 (on festival days), 1.11 (when drug and alcohol testing is undertaken)			All reports are to be maintained at the project site for as long as the Contractor is working at the site
Weekly Review of Daily Inspection Reports (Internal)	1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 1.10, 1.11, 1.12, 1.13, 1.14	Contractor's General Manager	A weekly report is to be provided to the Contractor's Onsite General Manager, which is to include: the compliance status of relevant operations that may give rise to impacts from traffic (marine); identifying any non-compliances that have arisen over the previous weeks monitoring program; detailing the corrective actions that have been taken when a failure has been noted; and noting the appropriateness and effectiveness of any corrective actions	Archive Weekly Report in an orderly manner for external auditing All reports are to be maintained at the project site for as long as the Contractor is working at the site

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Inspection / Auditing Interval	Reference of Relevant Mitigation Measure*	Responsibility	Scope of Inspection / Audit	Report Submission / Record Keeping
Biannual Inspection (External)	1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 1.10, 1.11, 1.12, 1.13, 1.14	LSP's Representative	LSP's Representative will review the contractor's onsite activities to assess compliance with the management plan and review all records of the Contractor's internal audit programme to review historic compliance and the use of appropriate corrective actions	<p>A copy of the External Audit Report is to be provided to the contractor for reference and, where necessary, implementation of any identified corrective actions</p> <p>All reports are to be maintained at the project site for as long as the Contractor is working at the site</p>


* See Table -1 for mitigation measure.

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ANNEX A – CONSTRUCTION SCHEDULE FOR THE SOURCES OF TERRESTRIAL TRAFFIC IMPACTS

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[Note to contractor: Contractor to insert Gantt chart of construction schedule in Microsoft Project Office format in Annex A]

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ANNEX B – EMPLOYEE CONTACT DETAILS ASSOCIATED WITH MANAGEMENT PLAN

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Role	Responsibilities	Contact Details*
General Manager (Contractor)		<ul style="list-style-type: none"> Mobile Number: Email:
Senior Site Engineer (Contractor)		<ul style="list-style-type: none"> Mobile Number: Email:
Site Supervisor / Foreman (Contractor)		<ul style="list-style-type: none"> Mobile Number: Email:
Site EHS Officer (Contractor)		<ul style="list-style-type: none"> Mobile Number: Email:
Emergency Response Co-ordinator (Contractor)		<ul style="list-style-type: none"> Mobile Number: Email:
[Other]		
[Other]		

*Any change in respect to employees, the contact details will need to amended as soon as the role has been reassigned.

[Note to Contractor: Insert a description of the responsibilities of each role, with regards to the management of EHS and traffic (terrestrial). Delete roles that are not appropriate. Include additional roles where required.]

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	Traffic Management Plan (Terrestrial)	Annex C

ANNEX C – DAILY REPORTING FORM

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	HSSE Department	Rev. 3
	Traffic Management Plan (Terrestrial)	Annex C

[Note to contractor: The below table provides an example of the details to be included on a Daily Reporting Form.]

Date of Observation	Contact Details / Role of Individual Undertaking Monitoring	Details of Observation / Location	Mitigation Action to be Taken	Date Mitigation Action was Implemented