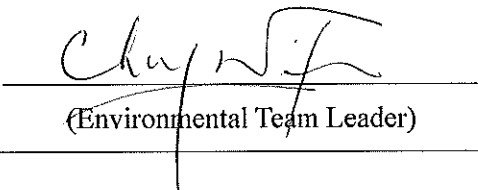


# Civil Engineering and Development Department

**Contract No. ST/2013/01**  
**Sha Tin New Town Stage II**  
**Road T3 and Associated Roadworks –**  
**Remaining Works, Phase III**  
Monthly EM&A Report  
(Version 1.0)  
December 2015

Certified By   
(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

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## EXECUTIVE SUMMARY

### Introduction

1. This is the 19<sup>th</sup> monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Limited for CEDD Contract No. ST/2013/01 “Sha Tin New Town Stage II, Road T3 and Associated Roadworks – Remaining Works, Phase III” (hereinafter referred to as ‘the Project’). This report documents the findings of EM&A Works conducted in December 2015.
2. The major site activities undertaken in the reporting month included:
  - Drainage construction
  - Bicycle stands construction
  - Hydroseeding

### Environmental Monitoring and Audit Works

3. Environmental monitoring and audit works for the Project were performed regularly and the results were checked and reviewed. Site audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
4. Summary of the non-compliance of the reporting month is tabulated in **Table I**.

**Table I Summary Table for Events Recorded in the Reporting Month**

| Parameter | No. of Exceedance |             | No. of Exceedance Due to this Project | Action Taken |
|-----------|-------------------|-------------|---------------------------------------|--------------|
|           | Action Level      | Limit Level |                                       |              |
| Noise     | 0                 | 0           | 0                                     | N/A          |

#### *Construction Noise*

5. All construction noise monitoring was conducted as scheduled in the reporting month. No Limit Level exceedance was recorded.

### Environmental Licenses and Permits

6. Environmental related licenses/permits granted to the Project include the Environmental Permit (EP) for the Project and the Water Discharge Licence.

### Key Information in the Reporting Month

7. Summary of key information in this reporting month is tabulated in **Table II**. The key information in the EIA Report is summarized in the Table III below. According to the EIA Report, air quality and noise would be the key environmental issues during the construction of the Project. Details of the implementation of mitigation measures are provided in the **Appendix H**.

**Table II Summary Table for Key Information in the Reporting Month**

| Event  | Event Details |   | Action Taken  | Status | Remark |
|--|---------------|---|---|--------|--------|
|  | Number        | Nature                                  |   |        |        |
| Complaint received   | 0             | ---                                     | N/A   | N/A    | ---    |
| Changes to the assumptions and key construction / operation activities recorded  | 0             | ---                                     | N/A   | N/A    | ---    |
| Status of submissions under EP   | 1             | Monthly EM&A Report for (November 2015) | Submitted to EPD on 18 <sup>th</sup> December 2015. | N/A    | ---    |
| Notifications of any summons & prosecutions  | 0             | ---                                     | N/A   | N/A    | ---    |
| <p><b>Future Key Issues</b></p> <p>Major site activities for the coming month will include:</p> <ul style="list-style-type: none"> <li>Hydroseeding and Landscape works</li> </ul> |               |   |   |        |        |

**Table III Key Information in the EIA Report and the Status of EMIS**

|                    | Issues | Assumptions and Assessment  | Recommended Mitigation Measures  | Status of Implementation of Mitigation Measures   |
|--------------------|--------|---|--|---|
| Construction Phase | Air    | With the implementation of dust suppression mitigation measures, the level of construction dust would comply with the relevant AQO. | Watering the work area at least twice a day.<br><br>Environmental pollution control measures for minimizing construction dust impact as stipulated in the APCO.  | During the audit sessions, it was observed that:<br>• Watering the work site was provided.  |
|                    | Noise  | Noise level at most of NSRs would exceed the noise criteria without mitigation measures.  | Good site practices, adoption of quiet construction plant, reduction of on-time operation of plant, movable noise barrier, avoid simultaneous noisy activities.  | During the audit sessions, it was observed that:<br>• Simultaneous noisy activities were avoided.   |
|                    | Water  | The potential impact rose from the construction of flyovers spanning to the upper Shing Mun River Channel.                          | Construction works spanning the upper Shing Mun River should be undertaken in the dry season<br><br>All storm runoff should be routed through oil/grit separators and/or sediment basins/traps before being allowed to be discharged into the nearby receiving waters.<br><br>All stockpiled areas should be covered.<br><br>All sediment removable facilities should be maintained and the deposited sediments should be removed regularly. | The construction of flyovers spanning to the upper Shing Mun River Channel was completed under Sha Tin New Town – Stage II, Trunk Road T3 Project in 2009 |

## 1 INTRODUCTION

### Background

- 1.1 ‘Road T3 and Associated Roadworks – Remaining Works, Phase III’ Project (hereinafter referred to as “the Project”) is the remaining works of the Project ‘Sha Tin New Town – Stage II, Trunk Road T3 (Tai Wai)’ which is a Schedule 2 Designated Project under the Environmental Impact Assessment Ordinance (Cap. 449). A study of environmental impact assessment (EIA) was undertaken for the ‘Sha Tin New Town – Stage II, Trunk Road T3 (Tai Wai)’ to consider the key issues of to provide information on nature and extent of environmental impacts arising from the construction and operation of Road T3, and identify possible mitigation measures associated with the works. An EIA Report was approved by the Environmental Protection Department (EPD) on March 1998.
- 1.2 The Project includes the construction of an outstanding 1-lane slip road in the original Road T3 Scheme under the Environmental Permit EP-135/2002/J (EP) issued for Schedule 2 Project ‘Sha Tin New Town, Stage II - Road T3 and associated roadworks’ on 6 February 2014. The construction period of the Contract is tentatively 16 months. The commencement date of major construction works of the Project was scheduled to 19<sup>th</sup> June 2014.
- 1.3 Cinotech Consultants Limited was commissioned by the CEDD to undertake the Environmental Monitoring and Audit (EM&A) works for the Project.
- 1.4 The site layout plan and the location of noise monitoring station are shown in **Figure 1**.
- 1.5 According to the Baseline Environmental Monitoring Plan submitted to EPD on 21 February 2014, there is one noise monitoring station under the Project for monitoring the impact construction noise. No comment was received from EPD.
- 1.6 This is the 19<sup>th</sup> monthly EM&A report summarizing the EM&A works conducted for the Projects in December 2015.
- 1.7 This monthly report is the second last monthly report. The remaining landscape works will be finished by the end of January 2016. The EM&A programme including environmental monitoring and audit works will be terminated on 31<sup>st</sup> January 2016

### Project Organizations

- 1.8 Different parties with different levels of involvement in the project organization include:
  - Project Proponent - Civil Engineering and Development Department (CEDD)
  - Engineer’s Representative (ER) – AECOM
  - Environmental Team (ET) – Cinotech Consultants Ltd.
  - Independent Environmental Checker (IEC) – ANEWR Consulting Limited
  - Contractor – Sheen Billion Development Ltd.
- 1.9 The key contacts of the Project are shown in **Table 1.1**, and the organization chart of ET is shown in **Figure 2**.

**Table 1.1 Key Project Contacts**

| Party                          | Role                              | Name               | Position                              | Phone No. | Fax No.   |
|--------------------------------|-----------------------------------|--------------------|---------------------------------------|-----------|-----------|
| CEDD                           | Project Proponent                 | Mr. Bryan YUEN     | Engineer                              | 2301 1398 | /         |
|                                |                                   | Mr. T.M. KONG      | Engineer                              | 2762 5392 | 2714 5174 |
| AECOM                          | Engineer's Representative         | Mr. Daniel KO      | Resident Engineer                     | 2607 7805 | 2687 2322 |
| Cinotech                       | Environmental Team Leader         | Dr. Priscilla CHOY | Director                              | 2151 2089 | 3107 1388 |
| ANEWR                          | Independent Environmental Checker | Mr. James CHOI     | Director                              | 2618 2836 | 3007 8648 |
| Sheen Billion Development Ltd. | Contractor                        | Mr. Walance LI     | Project Manager                       | 9609 1908 | 3427 9289 |
|                                |                                   | Mr. Ryan CHAN      | Site Engineer / Environmental Officer | 9708 7539 |           |

### Construction Programme

1.10 The site activities undertaken in the reporting month were:

- Drainage construction
- Bicycle stands construction
- Hydroseeding

### Summary of EM&A Requirements

1.11 The EM&A programme requires construction phase noise monitoring as well as environmental site audits. The EM&A requirements are described in the following sections, including:

- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event / Action Plans;
- Environmental mitigation measures, as recommended in the project EIA study final report; and
- Environmental requirements in contract documents.

1.12 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 3 of this report.

1.13 This report presents the monitoring results, observations, locations, equipment, period, methodology and QA/QC procedures of the required monitoring parameters, namely noise as well as audit works for the Project in the reporting month.



## 2 NOISE MONITORING

### Monitoring Requirements

- 2.1 One noise monitoring station, namely N6 was approved for impact monitoring. **Appendix A** shows the established Action and Limit Level for the environmental monitoring works.

### Monitoring Locations

- 2.2 Noise monitoring was conducted at one designated monitoring station as presented in **Table 2.1**. **Figure 1** shows the location of the monitoring station.

**Table 2.1 Location of Noise Monitoring Station**

| Monitoring Station | Description   | Location of Measurement  |
|--------------------|---------------|--------------------------|
| N6                 | Scenery Court | Block 1 of Scenery Court |

### Monitoring Equipment

- 2.3 **Table 2.2** summarizes the noise monitoring equipment model being used.

**Table 2.2 Noise Monitoring Equipment**

| Equipment                     | Model and Make                  | Quantity |
|-------------------------------|---------------------------------|----------|
| Integrating Sound Level Meter | SVANTEK - SVAN 955 and SVAN 957 | 4        |
| Calibrator                    | SVANTEK - SV30A and B&K - 4231  | 4        |

### Monitoring Parameters, Frequency and Duration

- 2.4 **Table 2.3** summarizes the monitoring parameters, frequency and total duration of monitoring.

**Table 2.3 Noise Monitoring Parameters, Frequency and Duration**

| Station | Parameter  | Period                                | Frequency   | Measurement |
|---------|--|---------------------------------------|-------------|-------------|
| N6      | L <sub>10</sub> (30 min.) dB(A)<br>L <sub>90</sub> (30 min.) dB(A)<br>L <sub>eq</sub> (30 min.) dB(A)<br>L <sub>eq</sub> (5min) dB(A)* | 0700-1900 hrs. on<br>normal weekdays; | Once a week | Façade      |

### Monitoring Methodology and QA/QC Procedures

#### *Field Monitoring*

- 2.5 The monitoring procedures are as follows:
- The microphone head of the sound level meter was positioned 1m exterior of the noise sensitive facade and lowered sufficiently so that the building's external wall

acts as a reflecting surface.

- The battery condition was checked to ensure good functioning of the meter.
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
  - frequency weighting : A
  - time weighting : Fast
  - measurement time : 30 minutes
- Prior to and after noise measurement, the meter was calibrated using the calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement is more than 1.0 dB, the measurement was considered invalid and repeat of noise measurement was required after re-calibration or repair of the equipment.
- The wind speed at the monitoring station was checked with the portable wind meter. Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s.
- Noise measurement was paused during periods of high intrusive noise if possible and observation was recorded when intrusive noise was not avoided.
- At the end of the monitoring period, the  $L_{eq}$ ,  $L_{10}$  and  $L_{90}$  were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.

### ***Maintenance and Calibration***

2.6 Maintenance and Calibration procedures were as follows:

- The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- The sound level meter and calibrator were checked and calibrated at yearly intervals. Copies of calibration certificates are attached in **Appendix B**.

### **Results and Observations**

2.7 In the reporting month, noise monitoring was conducted as scheduled at the designated location. The noise monitoring schedule is provided in **Appendix C**.

2.8 All the Construction Noise Levels (CNLs) reported in this report were adjusted with the corresponding baseline level (i.e. Measured  $L_{eq}$  – Baseline  $L_{eq}$  = Measured CNL), in order to facilitate the interpretation of the noise exceedance. The baseline noise level and the allowed CNL at the designated noise monitoring station are presented at Table 2.4.

**Table 2.4 Baseline Noise Level and Allowed Construction Noise Level for Monitoring Station**

| Station            | Baseline Noise Level, dB<br>(A) | Allowed CNL,<br>dB (A) |
|--------------------|---------------------------------|------------------------|
| N6 – Scenery Court | 66.7                            | 75.0                   |

2.9 The details of the monitoring results and graphical presentations are shown in **Appendix D**. The weather during the monitoring session was sunny and cloudy. In

accordance with Condition 6.2 of the EP, all environmental monitoring data was made available to the public via internet access at the website: <http://www.st201301.com/test/>.

2.10 No Limit Level exceedance for construction noise monitoring was recorded in the reporting month. The Action/Limit Level and the noise monitoring result are summarized at Table 2.5.

**Table 2.5 Summary Table of Noise Monitoring Results during the Reporting Month**

| Parameter | Date             | CNLs $L_{eq}(30min) / L_{eq}(5min)*$ dB (A) | Action Level                              | Limit Level |
|-----------|------------------|---|---|-------------|
| N6        | 3 December 2015  | 65.8 Measured $\leq$ Baseline               | When one documented complaint is received | 75dB(A)     |
|           | 8 December 2015  | 69.5  |   |             |
|           | 17 December 2015 | 64.9  |   |             |
|           | 24 December 2015 | 65.1  |   |             |
|           | 31 December 2015 | 65.6  |   |             |

2.11 According to our field observations, the major noise sources identified at the designated monitoring station are as follows:

| Station            | Major Noise Sources |
|--------------------|---------------------|
| N6 – Scenery Court | Road Traffic        |

### 3 ENVIRONMENTAL AUDIT

#### Site Audits

- 3.1 Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix F**.
- 3.2 Site audits were conducted on 2<sup>nd</sup>, 11<sup>th</sup>, 18<sup>th</sup>, 22<sup>nd</sup> and 31<sup>st</sup> December 2015 by ET. A joint site audit with the representative with IEC, ER, the Contractor and the ET was carried out on 31<sup>st</sup> December 2015. The details of observations during site audit can refer to **Table 3.3**.

#### Review of Environmental Monitoring Procedures

- 3.3 The monitoring works conducted by the monitoring team were inspected regularly. The following observations have been recorded for the monitoring works:

#### Noise Monitoring

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

#### Status of Environmental Licensing and Permitting

- 3.4 All permits/licenses obtained for the Project are summarized in **Table 3.1**.

**Table 3.1 Summary of Environmental Licensing and Permit Status**

| Permit / License No.  | Valid Period |            | Status   |
|---|--------------|------------|--|
|   | From         | To         |  |
| <b>Environmental Permit (EP)</b>  |              |            |  |
| EP-135/2002/J   | 6/2/2014     | N/A        | Valid  |
| <b>Billing Account for Construction Waste Disposal</b>                    |              |            |  |
| RS01172   | 19/2/2014    | N/A        | Valid  |
| <b>Registration of Chemical Waste Producer</b>                            |              |            |  |
| WPN5213-758-S3797-01  | 4/2/2014     | 12/11/2014 | Valid (Updated with two chemical waste types added – spent lubricating oil and contaminated soil with spent lubricating oil) |
|   | 13/11/2014   | N/A        |  |
| <b>Effluent Discharge License under Water Pollution Control Ordinance</b> |              |            |  |
| WT00019462-2014   | 8/7/2014     | 31/8/2019  | Valid  |
| <b>Construction Noise Permit</b>  |              |            |  |
| N/A   | N/A          | N/A        | N/A  |

#### Status of Waste Management

- 3.5 There are 33.88 m<sup>3</sup> of Construction and Demolition (C&D) materials generated in this

reporting month. The table summarizing the quantities of waste generated in this reporting month is presented in **Appendix I**.

### Implementation Status of Environmental Mitigation Measures

3.6 The key information in the EIA Report is summarized in **Table 3.2**. With referring to the EIA Report, air quality and noise would be the key issues during the construction of the Project. Details of the implementation of mitigation measures are provided in the **Appendix H**.

**Table 3.2 Key Information in the EIA Report and the Status of EMIS**

|                    | Issues | Assumptions and Assessment  | Recommended Mitigation Measures  | Status of Implementation of Mitigation Measures   |
|--------------------|--------|---|--|---|
| Construction Phase | Air    | With the implementation of dust suppression mitigation measures, the level of construction dust would comply with the relevant AQO. | Watering the work area at least twice a day.<br><br>Environmental pollution control measures for minimizing construction dust impact as stipulated in the APCO.  | During the audit sessions, it was observed that:<br>• Watering the work site was provided.  |
|                    | Noise  | Noise level at most of NSRs would exceed the noise criteria without mitigation measures.  | Good site practices, adoption of quiet construction plant, reduction of on-time operation of plant, movable noise barrier, avoid simultaneous noisy activities.  | During the audit sessions, it was observed that:<br>• Simultaneous noisy activities were avoided.   |
|                    | Water  | The potential impact rose from the construction of flyovers spanning to the upper Shing Mun River Channel.                          | Construction works spanning the upper Shing Mun River should be undertaken in the dry season<br><br>All storm runoff should be routed through oil/grit separators and/or sediment basins/traps before being allowed to be discharged into the nearby receiving waters.<br><br>All stockpiled areas should be covered.<br><br>All sediment removable facilities should be maintained and the deposited sediments should be removed regularly. | The construction of flyovers spanning to the upper Shing Mun River Channel was completed under Sha Tin New Town – Stage II, Trunk Road T3 Project in 2009 |

3.7 During site inspections in the reporting month, no non-conformance was identified. The

observations and recommendations made during the audit sessions are summarized in

**Table 3.3 Observations and Recommendations of Site Audit**

| Parameters           | Date                       | Observations   | Remedial Actions   |   |
|----------------------|----------------------------|--|--|---|
| <i>Water Quality</i> | 14 August 2015             | Muddy runoff in u-channel should be cleared regularly.           | Muddy runoff was cleared.                                |   |
|                      | 21 August 2015             |  |  |   |
|                      | 28 August 2015             |  |  |   |
|                      | 02 September 2015          |  |  |   |
|                      | 09 September 2015          |  |  |   |
|                      | 16 September 2015          |  |  |   |
|                      | 25 September 2015          |  |  |   |
|                      | 02 October 2015            |  |  |   |
|                      | 08 October 2015            |  |  |   |
|                      | 16 October 2015            |  |  |   |
|                      | 23 October 2015            |  |  |   |
|                      | 30 October 2015            |  |  |   |
|                      | 6 November 2015            |  |  |   |
|                      | 13 November 2015           |  |  |   |
|                      | 20 November 2015           |  |  |   |
|                      | 27 November 2015           |  |  |   |
|                      | 2 December 2015            |  |  |   |
| 11 December 2015     |                            |  |  |   |
| 18 December 2015     |                            |  |  |   |
| <i>Air Quality</i>   | 20 November 2015           | Unpaved slope should be covered and bundings should be provided. | Unpaved slope was covered.                               |   |
|                      | 27 November 2015           |  |  |   |
|                      | 2 December 2015            |  |  |   |
|                      | 11 December 2015           |  |  |   |
| <i>Noise</i>         | N/A                        | N/A  | N/A  |   |
|                      | <i>Waste/<br/>Chemical</i> | 27 November 2015   | Construction waste and general refuse should be removed. | Construction waste and general refuse were removed. |

| Parameters                  | Date            | Observations | Remedial Actions |
|-----------------------------|-----------------|--------------|------------------|
| <i>Management</i>           | 2 December 2015 |              |                  |
| <i>Permit/<br/>Licenses</i> | N/A             | N/A          | N/A              |

### Summary of Exceedance

- 3.8 No exceedance of monitoring result was recorded in the reporting month. Summary of exceedance is provided in **Appendix E**.

### Implementation Status of Event Action Plans

- 3.9 The Event Action Plan for construction noise is presented in **Appendix G**. No exceedance related to the project was recorded and thus no action was required to be implemented.

### Summary of Complaint and Prosecution

- 3.10 There was no environmental complaint received in the reporting month.
- 3.11 No prosecution or notification of summons was received in the reporting month. The Complaint Log is attached in **Appendix J**.

#### **4 FUTURE KEY ISSUES**

4.1 Key issues to be considered in the coming month include:

- Accumulation of stagnant water in the site areas

##### **Monitoring Schedule for the Next Month**

4.2 The tentative environmental monitoring schedule for the next month is shown in **Appendix C**.

##### **Construction Program for the Next Month**

4.3 A tentative construction programme is provided in **Appendix K**. The most updated version is provided by Contractor. The major construction activities were ended in August stated in the programme.



## **5 CONCLUSIONS AND RECOMMENDATIONS**

### **Conclusions**

- 5.1 Environmental monitoring and audit works were conducted in the reporting month. Site inspections were conducted on a weekly basis. The results were reviewed and checked.
- 5.2 All construction noise monitoring was conducted as scheduled in the reporting month. No Limit Level exceedance was recorded.
- 5.3 There was no environmental complaint received in the reporting month. No prosecution or notification of summons received.
- 5.4 This monthly report is the second last monthly report. The remaining landscape works will be finished by the end of January 2016. The EM&A programme including environmental monitoring and audit works will be terminated on 31<sup>st</sup> January 2016.

### **Recommendations**

- 5.5 According to the environmental audit performed in the reporting month, the following recommendations were made:

#### ***Water Quality***

- Provide mitigation measures to prevent muddy surface runoff from leaking offsite

#### ***Air Quality***

- Regularly clear the sand on haul road and water the haul road to prevent dust generation

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**FIGURE(S)**

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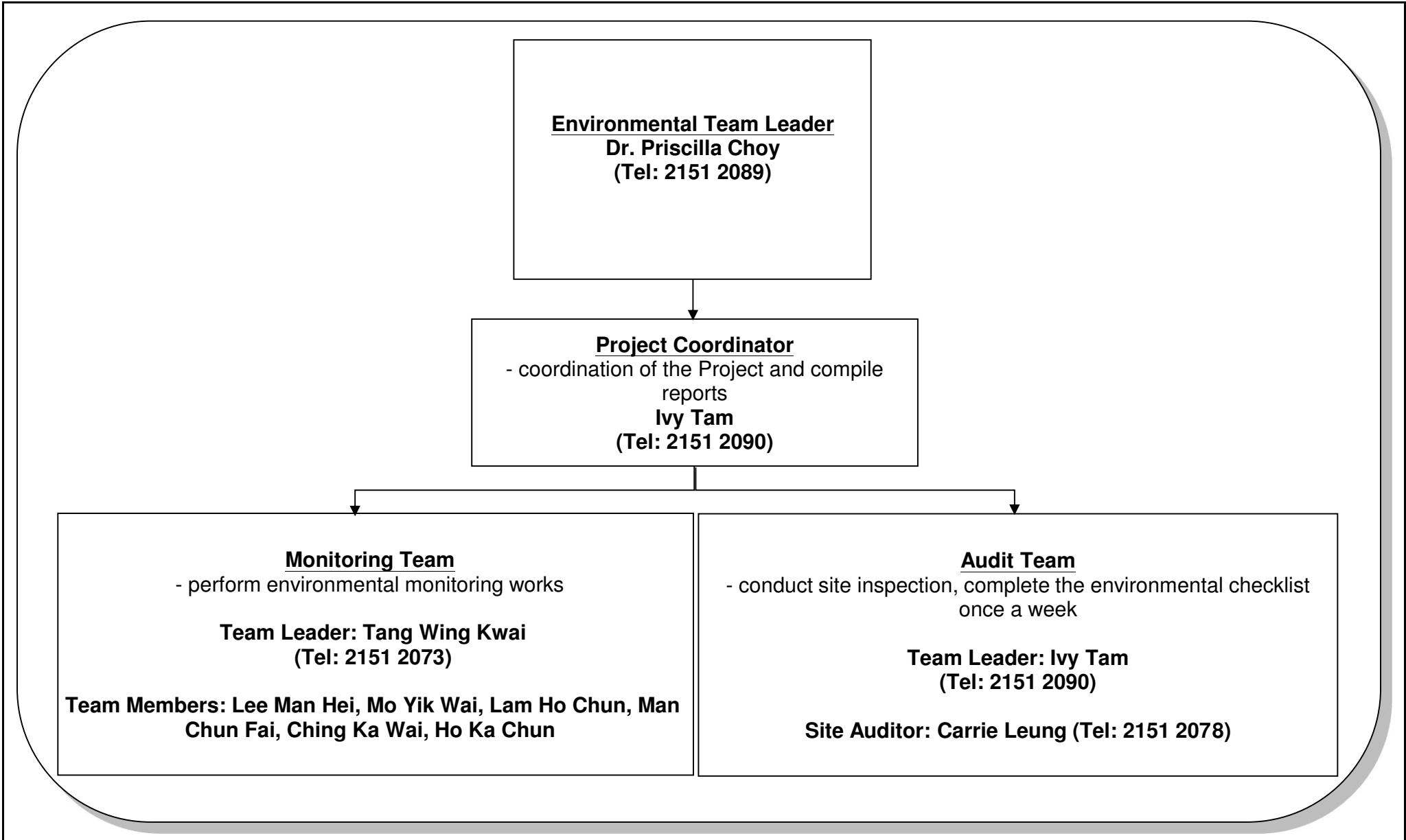
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LEGEND:

|   |                          |
|---|--------------------------|
|  | SITE BOUNDARY            |
|  | NOISE SENSITIVE RECEIVER |

|       |   |  |       |        |             |         |          |
|-------|---|--|-------|--------|-------------|---------|----------|
| Title | Contract No. ST/2013/01 -<br>Sha Tin New Town Stage II - Road T3 and Associated Roadworks -<br>Remaining Works, Phase III |  | Scale | N.T.S  | Project No. | MA13058 | CINOTECH |
|       | Location of Noise Monitoring Station at Scenery Court   |  | Date  | Feb-14 | Figure      | 1       |          |



Title Contract No. ST 2013/01 Sha Tin New Town, Stage II Environmental Team for Road T3 & Associated Roadworks - Remaining Works, Phase III  
ET's Organization Chart

|       |        |             |         |
|-------|--------|-------------|---------|
| Scale | N.T.S  | Project No. | MA13058 |
| Date  | Aug-15 | Figure      | 2       |



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**APPENDIX A  
ACTION AND LIMIT LEVEL**

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**APPENDIX A – Action and Limit Level****Construction Noise**

| <b>Time Period</b>   | <b>Action Level</b>                       | <b>Limit Level</b> |
|--|---|--------------------|
| 0700-1900 hrs on normal weekdays                               | When one documented complaint is received | 75 dB(A)           |
| 0700-2300 hrs on holidays; and 1900-2300 hrs on all other days |   | 70* dB(A)          |
| 2300-0700 hrs of next day                                      |   | 55* dB(A)          |

Notes:

Notes: If works are to be carried during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.

(\*) reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

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**APPENDIX B  
COPIES OF CALIBRATION  
CERTIFICATES**

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## TEST REPORT

**APPLICANT:** Cinotech Consultants Limited  
Room 1710, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong

|                  |            |
|------------------|------------|
| Test Report No.: | C/N/150103 |
| Date of Issue:   | 2015-01-05 |
| Date Received:   | 2015-01-03 |
| Date Tested:     | 2015-01-03 |
| Date Completed:  | 2015-01-05 |
| Next Due Date:   | 2016-01-04 |

**ATTN:** Mr. W. K. Tang

Page: 1 of 1

### Certificate of Calibration

**Item for calibration:**

|                |   |
|----------------|---|
| Description    | : 'SVANTEK' Integrating Sound Level Meter |
| Manufacturer   | : SVANTEK                                 |
| Model No.      | : SVAN 955                                |
| Serial No.     | : 14303                                   |
| Microphone No. | : 35222                                   |
| Equipment No.  | : N-08-05                                 |

**Test conditions:**

|                   |                     |
|-------------------|---------------------|
| Room Temperature  | : 20 degree Celsius |
| Relative Humidity | : 54%               |

**Test Specifications:**

Performance checking at 94 and 114 dB

**Methodology:**

In-house method, according to manufacturer instruction manual

**Results:**

| Reference Set Point, dB | Instrument Readings, dB |
|-------------------------|-------------------------|
| 94                      | 94.0                    |
| 114                     | 114.0                   |

Remark: 1) This report supersedes the one dated 2012/01/21 with certificate number C/N/120120/1.

*PREPARED AND CHECKED BY:*

For and On Behalf of **WELLAB Ltd.**

  
**PATRICK TSE**  
Laboratory Manager



## TEST REPORT

**APPLICANT:** Cinotech Consultants Limited  
Room 1710, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong

|                  |              |
|------------------|--------------|
| Test Report No.: | C/N/150828/1 |
| Date of Issue:   | 2015-08-31   |
| Date Received:   | 2015-08-28   |
| Date Tested:     | 2015-08-28   |
| Date Completed:  | 2015-08-31   |
| Next Due Date:   | 2016-08-30   |

**ATTN:** Mr. W.K. Tang

Page: 1 of 1

### Certificate of Calibration

**Item for calibration:**

|                |   |
|----------------|---|
| Description    | : 'SVANTEK' Integrating Sound Level Meter |
| Manufacturer   | : SVANTEK                                 |
| Model No.      | : SVAN 957                                |
| Serial No.     | : 21455                                   |
| Microphone No. | : 43730                                   |
| Equipment No.  | : N-08-07                                 |

**Test conditions:**

|                   |                     |
|-------------------|---------------------|
| Room Temperature  | : 24 degree Celsius |
| Relative Humidity | : 58%               |

**Test Specifications:**

Performance checking at 94 and 114 dB

**Methodology:**

In-house method, according to manufacturer instruction manual

**Results:**

| Reference Set Point, dB | Instrument Readings, dB |
|-------------------------|-------------------------|
| 94                      | 94.0                    |
| 114                     | 114.0                   |

*PREPARED AND CHECKED BY:*

For and On Behalf of **WELLAB Ltd.**

  
**PATRICK TSE**  
Laboratory Manager

### TEST REPORT

**APPLICANT:** Cinotech Consultants Limited  
Room 1710, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong

|                  |              |
|------------------|--------------|
| Test Report No.: | C/N/150821/3 |
| Date of Issue:   | 2015-08-24   |
| Date Received:   | 2015-08-21   |
| Date Tested:     | 2015-08-21   |
| Date Completed:  | 2015-08-24   |
| Next Due Date:   | 2016-08-23   |

**ATTN:** Mr. W.K. Tang

Page: 1 of 1

### Certificate of Calibration

**Item for calibration:**

|                |   |
|----------------|---|
| Description    | : 'SVANTEK' Integrating Sound Level Meter |
| Manufacturer   | : SVANTEK                                 |
| Model No.      | : SVAN 957                                |
| Serial No.     | : 21459                                   |
| Microphone No. | : 43676                                   |
| Equipment No.  | : N-08-08                                 |

**Test conditions:**

|                   |                     |
|-------------------|---------------------|
| Room Temperature  | : 22 degree Celsius |
| Relative Humidity | : 54%               |

**Test Specifications:**

Performance checking at 94 and 114 dB

**Methodology:**

In-house method, according to manufacturer instruction manual

**Results:**

| Reference Set Point, dB | Instrument Readings, dB |
|-------------------------|-------------------------|
| 94                      | 94.0                    |
| 114                     | 114.0                   |

*PREPARED AND CHECKED BY:*

For and On Behalf of **WELLAB Ltd.**



**PATRICK TSE**  
Laboratory Manager

## TEST REPORT

**APPLICANT:** Cinotech Consultants Limited  
Room 1710, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong

|                  |              |
|------------------|--------------|
| Test Report No.: | C/N/150821/1 |
| Date of Issue:   | 2015-08-24   |
| Date Received:   | 2015-08-21   |
| Date Tested:     | 2015-08-21   |
| Date Completed:  | 2015-08-24   |
| Next Due Date:   | 2016-08-23   |

**ATTN:** Mr. W.K. Tang

Page: 1 of 1

### Certificate of Calibration

**Item for calibration:**

|                |   |
|----------------|---|
| Description    | : 'SVANTEK' Integrating Sound Level Meter |
| Manufacturer   | : SVANTEK                                 |
| Model No.      | : SVAN 957                                |
| Serial No.     | : 21460                                   |
| Microphone No. | : 43679                                   |
| Equipment No.  | : N-08-09                                 |

**Test conditions:**

|                   |                     |
|-------------------|---------------------|
| Room Temperature  | : 22 degree Celsius |
| Relative Humidity | : 54%               |

**Test Specifications:**

Performance checking at 94 and 114 dB

**Methodology:**

In-house method, according to manufacturer instruction manual

**Results:**

| Reference Set Point, dB | Instrument Readings, dB |
|-------------------------|-------------------------|
| 94                      | 94.0                    |
| 114                     | 114.0                   |

*PREPARED AND CHECKED BY:*

For and On Behalf of **WELLAB Ltd.**

  
**PATRICK TSE**  
Laboratory Manager

## TEST REPORT

**APPLICANT:** Cinotech Consultants Limited  
Room 1710, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong

|                  |              |
|------------------|--------------|
| Test Report No.: | C/N/151003/1 |
| Date of Issue:   | 2015-10-04   |
| Date Received:   | 2015-10-03   |
| Date Tested:     | 2015-10-03   |
| Date Completed:  | 2015-10-04   |
| Next Due Date:   | 2016-10-03   |

**ATTN:** Mr. W.K. Tang

Page: 1 of 1

### Item for calibration:

|               |                         |
|---------------|-------------------------|
| Description   | : Acoustical Calibrator |
| Manufacturer  | : SVANTEK               |
| Model No.     | : SV30A                 |
| Serial No.    | : 24803                 |
| Equipment No. | : N-09-03               |

### Test conditions:

|                   |                     |
|-------------------|---------------------|
| Room Temperature  | : 23 degree Celsius |
| Relative Humidity | : 57%               |

### Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

### Results:

| Sound Pressure Level (1kHz) | Measured SPL | Tolerance      |
|-----------------------------|--------------|----------------|
| At 94 dB SPL                | 94.0         | 94.0 ± 0.1 dB  |
| At 114 dB SPL               | 114.0        | 114.0 ± 0.1 dB |

*PREPARED AND CHECKED BY:*

For and On Behalf of **WELLAB Ltd.**



**PATRICK TSE**

Laboratory Manager

## TEST REPORT

**APPLICANT:** Cinotech Consultants Limited  
Room 1710, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong

|                  |              |
|------------------|--------------|
| Test Report No.: | C/N/151003/3 |
| Date of Issue:   | 2015-10-04   |
| Date Received:   | 2015-10-03   |
| Date Tested:     | 2015-10-03   |
| Date Completed:  | 2015-10-04   |
| Next Due Date:   | 2016-10-03   |

**ATTN:** Mr. W.K. Tang

Page: 1 of 1

### Item for calibration:

|               |                         |
|---------------|-------------------------|
| Description   | : Acoustical Calibrator |
| Manufacturer  | : SVANTEK               |
| Model No.     | : SV30A                 |
| Serial No.    | : 24791                 |
| Equipment No. | : N-09-04               |

### Test conditions:

|                   |                     |
|-------------------|---------------------|
| Room Temperature  | : 23 degree Celsius |
| Relative Humidity | : 57%               |

### Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

### Results:

| Sound Pressure Level (1kHz) | Measured SPL | Tolerance      |
|-----------------------------|--------------|----------------|
| At 94 dB SPL                | 94.0         | 94.0 ± 0.1 dB  |
| At 114 dB SPL               | 114.0        | 114.0 ± 0.1 dB |

*PREPARED AND CHECKED BY:*  
For and On Behalf of **WELLAB Ltd.**

  
\_\_\_\_\_  
**PATRICK TSE**  
Laboratory Manager

## TEST REPORT

**APPLICANT:** Cinotech Consultants Limited  
Room 1710, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong

|                  |              |
|------------------|--------------|
| Test Report No.: | C/N/151106/1 |
| Date of Issue:   | 2015-11-07   |
| Date Received:   | 2015-11-06   |
| Date Tested:     | 2015-11-06   |
| Date Completed:  | 2015-11-07   |
| Next Due Date:   | 2016-11-06   |

**ATTN:** Mr. W.K. Tang

Page: 1 of 1

### Item for calibration:

|               |                         |
|---------------|-------------------------|
| Description   | : Acoustical Calibrator |
| Manufacturer  | : Brüel & Kjær          |
| Model No.     | : 4231                  |
| Serial No.    | : 2326353               |
| Equipment No. | : N-02-01               |

### Test conditions:

|                   |                     |
|-------------------|---------------------|
| Room Temperature  | : 23 degree Celsius |
| Relative Humidity | : 56 %              |

### Methodology:

The sound calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

### Results:

| Sound Pressure Level (1kHz) | Measured SPL | Tolerance      |
|-----------------------------|--------------|----------------|
| At 94 dB SPL                | 94.0         | 94.0 ± 0.1 dB  |
| At 114 dB SPL               | 114.0        | 114.0 ± 0.1 dB |

PREPARED AND CHECKED BY:

For and On Behalf of **WELLAB Ltd.**

  
\_\_\_\_\_  
**PATRICK TSE**  
Laboratory Manager

## TEST REPORT

**APPLICANT:** Cinotech Consultants Limited  
Room 1710, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong

|                  |              |
|------------------|--------------|
| Test Report No.: | C/N/150821/4 |
| Date of Issue:   | 2015-08-24   |
| Date Received:   | 2015-08-21   |
| Date Tested:     | 2015-08-21   |
| Date Completed:  | 2015-08-24   |
| Next Due Date:   | 2016-08-23   |

**ATTN:** Mr. W.K. Tang

Page: 1 of 1

### Certificate of Calibration

**Item for calibration:**

|               |                         |
|---------------|-------------------------|
| Description   | : Acoustical Calibrator |
| Manufacturer  | : Brüel & Kjær          |
| Model No.     | : 4231                  |
| Serial No.    | : 2412367               |
| Equipment No. | : N-02-03               |

**Test conditions:**

|                   |                     |
|-------------------|---------------------|
| Room Temperature  | : 22 degree Celsius |
| Relative Humidity | : 54%               |

**Methodology:**

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

**Results:**

| Sound Pressure Level (1kHz) | Measured SPL | Tolerance      |
|-----------------------------|--------------|----------------|
| At 94 dB SPL                | 94.0         | 94.0 ± 0.1 dB  |
| At 114 dB SPL               | 114.0        | 114.0 ± 0.1 dB |

*PREPARED AND CHECKED BY:*  
For and On Behalf of **WELLAB Ltd.**

  
**PATRICK TSE**  
Laboratory Manager

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**APPENDIX C  
ENVIRONMENTAL MONITORING  
SCHEDULES**

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**Contract No. ST/2013/01 Sha Tin New Town Stage II Road T3 and Associated Roadworks – Remaining Works, Phase III  
Noise Monitoring Schedule in December 2015**

| Sunday        | Monday | Tuesday | Wednesday | Thursday | Friday        | Saturday      |
|---------------|--------|---------|-----------|----------|---------------|---------------|
|               |        | 1-Dec   | 2-Dec     | 3-Dec    | 4-Dec         | 5-Dec         |
|               |        |         |           | Noise    |               |               |
| <b>6-Dec</b>  | 7-Dec  | 8-Dec   | 9-Dec     | 10-Dec   | 11-Dec        | 12-Dec        |
|               |        | Noise   |           |          |               |               |
| <b>13-Dec</b> | 14-Dec | 15-Dec  | 16-Dec    | 17-Dec   | 18-Dec        | 19-Dec        |
|               |        |         |           | Noise    |               |               |
| <b>20-Dec</b> | 21-Dec | 22-Dec  | 23-Dec    | 24-Dec   | <b>25-Dec</b> | <b>26-Dec</b> |
|               |        |         |           | Noise    |               |               |
| <b>27-Dec</b> | 28-Dec | 29-Dec  | 30-Dec    | 31-Dec   |               |               |
|               |        |         |           | Noise    |               |               |

**Noise Monitoring Stations**

N6 - Scenery Court

**Contract No. ST/2013/01 Sha Tin New Town Stage II Road T3 and Associated Roadworks – Remaining Works, Phase III  
Tentative Noise Monitoring Schedule in January 2016**

| Sunday        | Monday | Tuesday | Wednesday | Thursday | Friday       | Saturday |
|---------------|--------|---------|-----------|----------|--------------|----------|
|               |        |         |           |          | <b>1-Jan</b> | 2-Jan    |
|               |        |         |           |          |              |          |
| <b>3-Jan</b>  | 4-Jan  | 5-Jan   | 6-Jan     | 7-Jan    | 8-Jan        | 9-Jan    |
|               |        | Noise   |           |          |              |          |
| <b>10-Jan</b> | 11-Jan | 12-Jan  | 13-Jan    | 14-Jan   | 15-Jan       | 16-Jan   |
|               |        | Noise   |           |          |              |          |
| <b>17-Jan</b> | 18-Jan | 19-Jan  | 20-Jan    | 21-Jan   | 22-Jan       | 23-Jan   |
|               |        | Noise   |           |          |              |          |
| <b>24-Jan</b> | 25-Jan | 26-Jan  | 27-Jan    | 28-Jan   | 29-Jan       | 30-Jan   |
|               | Noise  |         |           |          |              |          |
| <b>31-Jan</b> |        |         |           |          |              |          |
|               |        |         |           |          |              |          |

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)

**Noise Monitoring Stations**

N6 - Scenery Court

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**APPENDIX D  
NOISE MONITORING RESULTS AND  
GRAPHICAL PRESENTATIONS**

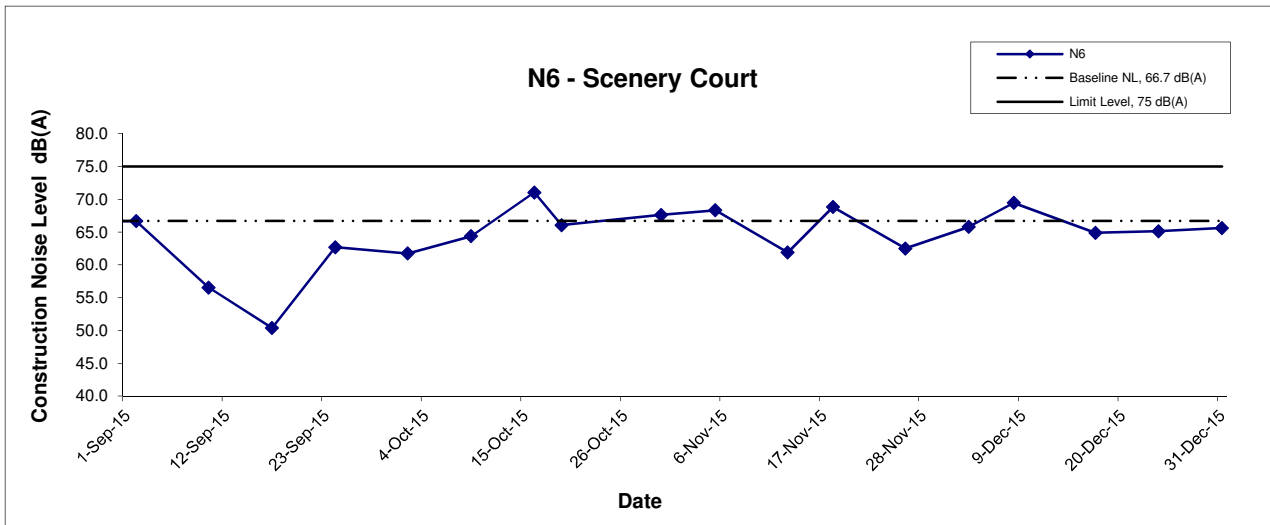
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## App D - Noise Monitoring Results

| Location N6 - Scenery Court |       |         |                       |                 |                 |                 |                          |
|-----------------------------|-------|---------|-----------------------|-----------------|-----------------|-----------------|--------------------------|
| Date                        | Time  | Weather | Unit: dB (A) (30-min) |                 |                 |                 |                          |
|                             |       |         | Measured Noise Level  |                 |                 | Baseline Level  | Construction Noise Level |
|                             |       |         | L <sub>eq</sub>       | L <sub>10</sub> | L <sub>90</sub> | L <sub>eq</sub> | L <sub>eq</sub>          |
| 3-Dec-15                    | 10:00 | Cloudy  | 65.8                  | 67.8            | 63.2            | 66.7            | 65.8 Measured ≤ Baseline |
| 8-Dec-15                    | 16:30 | Cloudy  | 71.3                  | 73.8            | 69.7            |                 | 69.5                     |
| 17-Dec-15                   | 16:30 | Sunny   | 68.9                  | 71.3            | 69.2            |                 | 64.9                     |
| 24-Dec-15                   | 16:15 | Sunny   | 69.0                  | 71.3            | 66.8            |                 | 65.1                     |
| 31-Dec-15                   | 16:30 | Sunny   | 69.2                  | 71.1            | 68.9            |                 | 65.6                     |

## Noise Levels



|   |                |                        |  |
|---|----------------|------------------------|--|
| Title<br>Sha Tin New Town Stage II<br>Road T3 and Associated Road Works- Remaning Works,<br>Phase III<br>Graphical Presentation of Construction Noise Monitoring<br>Results | Scale<br>N.T.S | Project No.<br>MA13058 |  |
|   | Date<br>Dec 15 | Appendix<br>D          |  |

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**APPENDIX E**  
**SUMMARY OF EXCEEDANCE**

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## **APPENDIX E – SUMMARY OF EXCEEDANCE**

**Reporting Month:** December 2015

*a) Exceedance Report for Construction Noise (NIL)*

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**APPENDIX F**  
**SITE AUDIT SUMMARY**

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Contract ST/2013/01

Sha Tin New Town Stage II


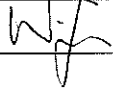
Road T3 and Associated Roadworks – Remaining Works, Phase III

Weekly Site Inspection Record Summary

Inspection Information

|                            |                             |
|----------------------------|-----------------------------|
| Checklist Reference Number | 151202                      |
| Date                       | 2 December 2015 (Wednesday) |
| Time                       | 10:00-11:30                 |

| Ref. No.   | Non-Compliance   | Related Item No. |
|------------|--|------------------|
|            | None identified  | -                |
| Ref. No.   | Remarks/Observations   | Related Item No. |
|            | <b>A. Water Quality</b>  |                  |
| 151127-O01 | • Unpaved slope should be covered and bundings should be provided.   | B 10             |
| 151127-R01 | • Contractor was reminded to keep cleaning muddy runoff in u-channel.  | B 8              |
|            | <b>B. Air Quality</b>  |                  |
| 151127-O01 | • Unpaved slope should be covered and bundings should be provided.   | C 6              |
|            | <b>C. Noise</b>  |                  |
|            | No environmental deficiency was identified during site inspection.   |                  |
|            | <b>D. Waste/Chemical Management</b>  |                  |
| 151127-O02 | • Construction waste and general refuse should be removed.   | E 1i             |
|            | <b>E. Permits/Licences</b>   |                  |
|            | No environmental deficiency was identified during site inspection.   |                  |
|            | <b>F. Others</b>   |                  |
|            | • Follow-up on previous site audit session (Ref. No. 151127), follow-up action is required for the item 151127-O01 which was renamed as 151202-O01. item 151127-O02 which was renamed as 151202-O02 and item 151127-R01 was renamed as 151202-R01. |                  |

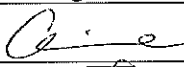
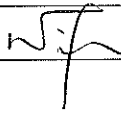
|             | Name               | Signature  | Date            |
|-------------|--------------------|--|-----------------|
| Recorded by | Carrie Leung       |  | 3 December 2015 |
| Checked by  | Dr. Priscilla Choy |   | 3 December 2015 |

Weekly Site Inspection Record Summary

Inspection Information

|                            |                           |
|----------------------------|---------------------------|
| Checklist Reference Number | 151211                    |
| Date                       | 11 December 2015 (Friday) |
| Time                       | 15:00-16:00               |

| Ref. No.   | Non-Compliance  | Related Item No. |
|------------|---|------------------|
|            | None identified   | -                |
| Ref. No.   | Remarks/Observations  | Related Item No. |
|            | <b>A. Water Quality</b>   |                  |
| 151211-O01 | • Unpaved slope should be covered and bundings should be provided.  | B 10             |
| 151211-R01 | • Contractor was reminded to keep cleaning muddy runoff in u-channel.   | B 8              |
|            | <b>B. Air Quality</b>   |                  |
| 151211-O01 | • Unpaved slope should be covered and bundings should be provided.  | C 6              |
|            | <b>C. Noise</b>   |                  |
|            | No environmental deficiency was identified during site inspection.  |                  |
|            | <b>D. Waste/Chemical Management</b>   |                  |
|            | No environmental deficiency was identified during site inspection.  |                  |
|            | <b>E. Permits/Licences</b>  |                  |
|            | No environmental deficiency was identified during site inspection.  |                  |
|            | <b>F. Others</b>  |                  |
|            | • Follow-up on previous site audit session (Ref. No. 151202), follow-up action is required for the item 151202-O01 which was renamed as 151211-O01 and item 151202-R01 which was renamed as 151211-R01. |                  |

|             | Name               | Signature  | Date             |
|-------------|--------------------|--|------------------|
| Recorded by | Carrie Leung       |  | 15 December 2015 |
| Checked by  | Dr. Priscilla Choy |   | 15 December 2015 |

Contract ST/2013/01

Sha Tin New Town Stage II

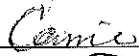
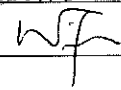
Road T3 and Associated Roadworks – Remaining Works, Phase III

Weekly Site Inspection Record Summary

Inspection Information

|                            |                           |
|----------------------------|---------------------------|
| Checklist Reference Number | 151218                    |
| Date                       | 18 December 2015 (Friday) |
| Time                       | 15:00-16:00               |

| Ref. No.   | Non-Compliance  | Related Item No. |
|------------|---|------------------|
|            | None identified   | -                |
| Ref. No.   | Remarks/Observations  | Related Item No. |
|            | <i>A. Water Quality</i>   |                  |
| 151218-001 | • Contractor was reminded to keep cleaning muddy runoff in u-channel.   | B 8              |
|            | <i>B. Air Quality</i>   |                  |
|            | No environmental deficiency was identified during site inspection.  |                  |
|            | <i>C. Noise</i>   |                  |
|            | No environmental deficiency was identified during site inspection.  |                  |
|            | <i>D. Waste/Chemical Management</i>   |                  |
|            | No environmental deficiency was identified during site inspection.  |                  |
|            | <i>E. Permits/Licences</i>  |                  |
|            | No environmental deficiency was identified during site inspection.  |                  |
|            | <i>F. Others</i>  |                  |
|            | • Follow-up on previous site audit session (Ref. No. 151211), follow-up action is required for the item 151211-R01 which was renamed as 151218-001. |                  |

|             | Name               | Signature   | Date             |
|-------------|--------------------|---|------------------|
| Recorded by | Carrie Leung       |  | 21 December 2015 |
| Checked by  | Dr. Priscilla Choy |  | 21 December 2015 |

Contract ST/2013/01

Sha Tin New Town Stage II

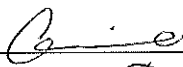

Road T3 and Associated Roadworks – Remaining Works, Phase III

Weekly Site Inspection Record Summary

Inspection Information

|                            |                            |
|----------------------------|----------------------------|
| Checklist Reference Number | 151222                     |
| Date                       | 22 December 2015 (Tuesday) |
| Time                       | 15:00-16:00                |

| Ref. No. | Non-Compliance   | Related Item No. |
|----------|--|------------------|
|          | None identified  | -                |
| Ref. No. | Remarks/Observations   | Related Item No. |
|          | <b>A. Water Quality</b>  |                  |
|          | No environmental deficiency was identified during site inspection.   |                  |
|          | <b>B. Air Quality</b>  |                  |
|          | No environmental deficiency was identified during site inspection.   |                  |
|          | <b>C. Noise</b>  |                  |
|          | No environmental deficiency was identified during site inspection.   |                  |
|          | <b>D. Waste/Chemical Management</b>  |                  |
|          | No environmental deficiency was identified during site inspection.   |                  |
|          | <b>E. Permits/Licences</b>   |                  |
|          | No environmental deficiency was identified during site inspection.   |                  |
|          | <b>F. Others</b>   |                  |
|          | • Follow-up on previous site audit session (Ref. No. 151218), all environmental deficiencies were rectified by Contractor. |                  |

|             | Name               | Signature   | Date             |
|-------------|--------------------|---|------------------|
| Recorded by | Carrie Leung       |  | 23 December 2015 |
| Checked by  | Dr. Priscilla Choy |  | 23 December 2015 |

Contract ST/2013/01

Sha Tin New Town Stage II

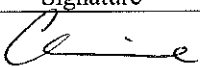
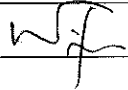
Road T3 and Associated Roadworks – Remaining Works, Phase III

Weekly Site Inspection Record Summary

Inspection Information

|                            |                            |
|----------------------------|----------------------------|
| Checklist Reference Number | 151231                     |
| Date                       | 31 December 2015 (Tuesday) |
| Time                       | 10:00-11:50                |

| Ref. No. | Non-Compliance   | Related Item No. |
|----------|--|------------------|
|          | None identified  | -                |
| Ref. No. | Remarks/Observations   | Related Item No. |
|          | <b>A. Water Quality</b>  |                  |
|          | No environmental deficiency was identified during site inspection.   |                  |
|          | <b>B. Air Quality</b>  |                  |
|          | No environmental deficiency was identified during site inspection.   |                  |
|          | <b>C. Noise</b>  |                  |
|          | No environmental deficiency was identified during site inspection.   |                  |
|          | <b>D. Waste/Chemical Management</b>  |                  |
|          | No environmental deficiency was identified during site inspection.   |                  |
|          | <b>E. Permits/Licences</b>   |                  |
|          | No environmental deficiency was identified during site inspection.   |                  |
|          | <b>F. Others</b>   |                  |
|          | • Follow-up on previous site audit session (Ref. No. 151222), all environmental deficiencies were rectified by Contractor. |                  |

|             | Name               | Signature  | Date           |
|-------------|--------------------|--|----------------|
| Recorded by | Carrie Leung       |  | 4 January 2016 |
| Checked by  | Dr. Priscilla Choy |  | 4 January 2016 |

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**APPENDIX G**  
**EVENT ACTION PLAN**

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## Appendix G Event/Action Plan

### Event/Action Plan for Construction Noise

| EVENT               | ACTION   |   |  |  |
|---------------------|--|---|--|--|
|                     | ET   | IEC   | ER   | CONTRACTOR   |
| <b>ACTION LEVEL</b> |  |   |  |  |
|                     | <ol style="list-style-type: none"> <li>1. Undertake measurement to establish validity of complaint</li> <li>2. Identify the source(s) of the complaint</li> <li>3. Inform ER &amp; IEC in writing. Discuss remedial actions required with ER &amp; IEC</li> <li>4. Increase monitoring frequency to assess efficacy of remedial measures</li> <li>5. If exceedance continues, meet with ER&amp;IEC to review implementation of appropriate mitigation measures</li> <li>6. If exceedance stops, cease additional monitoring</li> </ol> | <ol style="list-style-type: none"> <li>1. Review the analyzed results submitted by the ET</li> <li>2. Review the proposed remedial measures by the Contractor and advise the ER &amp; ET accordingly</li> <li>3. Supervise the implementation of remedial measures.</li> </ol>    | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of complaint and notify Contractor if proven</li> <li>2. Check monitoring data trends and Contractor's working methods.</li> <li>3. Remind the Contractor of his Contractual obligations and discuss with ET, IEC and Contractor on proposed remedial actions.</li> <li>4. Assess the efficacy of remedial actions and keep the Contractor informed</li> <li>5. Inform complainant of actions taken</li> </ol>   | <ol style="list-style-type: none"> <li>1. Submit proposals for remedial actions to ER within three working days of notification</li> <li>2. Amend proposals if required by the Engineer</li> <li>3. Implement the remedial actions immediately upon instruction</li> <li>4. Liaise with the ER to optimise the effectiveness of the agreed mitigation</li> <li>5. Amend proposal if appropriate</li> </ol>   |
| <b>LIMIT LEVEL</b>  |  |   |  |  |
|                     | <ol style="list-style-type: none"> <li>1. Repeat measurement to confirm findings</li> <li>2. Identify the source(s) of impact</li> <li>3. Inform ER&amp;IEC and EPD in writing</li> <li>4. Discuss remedial actions required with ER&amp;IEC</li> <li>5. Increase monitoring frequency to assess efficacy of remedial measures</li> <li>6. If exceedance continues, meet with ER&amp;IEC to identify appropriate mitigation measures</li> <li>7. If exceedance stops, cease additional monitoring</li> </ol>                           | <ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET</li> <li>2. Review Contractor's remedial actions to assure their effectiveness and advise the ER &amp;ET accordingly</li> <li>3. Supervise the implementation of the remedial measures</li> </ol> | <ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance and notify Contractor</li> <li>2. Check monitoring data trends and Contractor's working methods</li> <li>3. Discuss with ET, IC(E) and Contractor on proposed remedial actions to be implemented</li> <li>4. Assess the efficacy of remedial actions and keep the Contractor informed</li> <li>5. If exceedance continuous, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is aborted</li> </ol> | <ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance</li> <li>2. Submit proposals for remedial actions to ER within three working days of notification</li> <li>3. Amend proposals if required by the ER</li> <li>4. Implement remedial actions immediately upon instruction</li> <li>5. Liaise with the ER to optimize the effectiveness of the agreed mitigation</li> <li>6. Resubmit proposals if problem still not under control</li> <li>7. Stop the relevant portion of works as determined by the ER until the exceedance is aborted.</li> </ol> |

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**APPENDIX H  
UPDATED ENVIRONMENTAL  
MITIGATION IMPLEMENTATION  
SCHEDULE**

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**Appendix H - Implementation Schedule of Environmental Mitigation Measures**

| EIA/ ERR Ref. Ref.          | Recommended Mitigation Measures  | Who to implement the measures? | Location of the measures          | When to Implement the measures? |
|-----------------------------|--|--------------------------------|-----------------------------------|---------------------------------|
| <b>Construction Noise</b>   |  |                                |                                   |                                 |
| 2.5.4 / 2.3                 | <ul style="list-style-type: none"> <li>- Where available, the Contractor shall use quiet items of PME or model of plants that are quieter than those specified in the EPD's Technical Memorandum (GW-TM) for undertaking construction works.</li> <li>- Where practicable, the Contractor shall use movable noise barriers and avoid simultaneous noisy activities.</li> </ul> | Contractor                     | At active construction locations. | Construction stage              |
| <b>Air Quality</b>          |  |                                |                                   |                                 |
| 3.5.3/ 3.4.5                | Watering the works area at least twice a day   | Contractor                     | Work site                         | Construction stage              |
| 3.5.4/ 3.4.5                | Environmental pollution control measures for minimizing construction dust impact as stipulated in the Air Pollution Control Regulation.  | Contractor                     | Work site                         | Construction stage              |
| <b>Waste Management</b>     |  |                                |                                   |                                 |
| 5.2 – 5.6/4.5               | Environmental pollution control measures for minimizing waste arising from the construction works.   | Contractor                     | Within the works boundary         | Construction stage              |
| <b>Water Quality</b>        |  |                                |                                   |                                 |
| 4.5.1/5.5.1                 | Environmental pollution control measures for minimizing impacts on water quality.  | Contractor                     | All construction sites            | Construction stage              |
| <b>Landscape and Visual</b> |  |                                |                                   |                                 |
| -/Table 6-1                 | Storage of materials and plant shall be limited to areas less visible to receivers.  | Contractor                     | Project site                      | Construction stage              |
| -/Table 6-1                 | Preservation wherever possible of existing trees and transplanting wherever practical of trees affected by the Works.  | Contractor                     | Project site                      | Construction stage              |
| -/Table 6-1                 | Stripping, storing and re-use of topsoil.  | Contractor                     | Project site                      | Construction stage              |

Note: EIA Ref. refers to Trunk Road T3 (Tai Wai) - Updated Final Environmental Impact Assessment Report, March 1998

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**APPENDIX I  
WASTE GENERATION IN THE  
REPORTING MONTH**

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**APPENDIX J  
COMPLAINT LOG**

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**APPENDIX J – COMPLAINT LOG**

Reporting Month: December 2015

| Log Ref.       | Location         | Received Date                  | Details of Complaint   | Investigation/Mitigation Action  | Status |
|----------------|------------------|--------------------------------|--|--|--------|
| Com-2014-11-01 | Tai Po Slip Road | 15 <sup>th</sup> November 2014 | The complaint was received from a resident of Hilton Plaza by the Public Relation Officer (PRO) of Contractor (Sheen Billion Development Ltd) at 8:50 a.m. on 15 <sup>th</sup> November 2014 (Saturday). The complainant concerned about the noisy construction works conducted before 10 a.m. | <p>According to the information provided by the Contractor, the noisy construction work at the time of complaint was concrete breaking work using an excavator-mounted breaker.</p> <p>No violation of the Noise Control Ordinance as the noisy construction work was conducted within the non-restricted hour (07:00 to 19:00 on normal weekdays).</p> <p>However, according to item 2 of section 25.11B in PS of the Contract, demolition of existing artificial hard material should not be conducted during 8a.m. to 10a.m. Thus, the Contractor did not fulfil such requirement.</p> <p>After received the complaint, PRO coordinated the site personnel to stop the noisy works once the complaint was received. The noisy construction works have been re-scheduled to be commenced after 10 a.m. based on the requirement specified in the PS.</p> | Closed |
| Com-2014-12-01 | Tai Po Slip Road | 29 <sup>th</sup> December 2014 | The complaint was received by Environmental Protection Department (EPD) (EPD Complaint Ref: RN32146-14) in the morning of 29 <sup>th</sup> December 2014. The complainant complained about the effluent discharge to a gully in the worksite may cause pollution to the nearby environment.    | <p>According to the information provided by the Contractor, the effluent discharge was due to groundwater leakage from the trench excavation at deep depth of Bay 7 of the worksite.</p> <p>Since site inspection was also conducted in the morning of 29<sup>th</sup> December 2014 and no improper effluent discharge was observed, it is likely that the complainant observed the issue before 29<sup>th</sup> December 2014.</p>   | Closed |

| Log Ref. | Location | Received Date | Details of Complaint | Investigation/Mitigation Action   | Status |
|----------|----------|---------------|----------------------|---|--------|
|          |          |               |                      | <p>Improper effluent discharge was observed during the site inspections on 3<sup>rd</sup>, 10<sup>th</sup> and 22<sup>nd</sup> December 2014. Recommendations were given to the Contractor during the site inspections, and a further reminder was also given to the Contractor through email dated 22<sup>nd</sup> December 2014.</p> <p>The improper effluent discharge was ceased as per the rectified photos given by the Contractor on 24<sup>th</sup> December 2014, as well as during the site inspection on 6<sup>th</sup> January 2015. The discharge pipes were also connected to the discharge point via the sediment tank as per the photographic records given by the Contractor on 6<sup>th</sup> January 2015 and from the site inspection on 7<sup>th</sup> January 2015.</p> |        |

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**APPENDIX K  
CONSTRUCTION PROGRAMME**

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| ID | Task Name   | Duration          | Start              | Finish             | 2014   |     |     |     |     |     |     |     |     |     |     |     | 2015 |     |     |     |     |     |     |     |     |     |     |     | 2016 |     |     |     |     |     |
|----|---|-------------------|--------------------|--------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|
|    |   |                   |                    |                    | Jan  | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan  | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan  | Feb | Mar | Apr | May | Jun |
| 1  | <b>Whole of the works</b>   | <b>878.5 days</b> | <b>Tue 28/1/14</b> | <b>Fri 24/6/16</b> | [Gantt bar spanning from Jan 2014 to Jun 2016] |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 2  |   |                   |                    |                    |  |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 3  | <b>Preliminaries</b>  | <b>485 days</b>   | <b>Tue 28/1/14</b> | <b>Wed 27/5/15</b> | [Gantt bar spanning from Jan 2014 to May 2015] |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 4  | RE office take-over   | 28 days           | Tue 28/1/14        | Mon 24/2/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 5  | Site Office set up  | 90 days           | Tue 28/1/14        | Sun 27/4/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 6  | Site setting-out & project signboard erection   | 35 days           | Tue 28/1/14        | Mon 3/3/14         | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 7  | <b>Public Relation Plan</b>   | <b>485 days</b>   | <b>Tue 28/1/14</b> | <b>Wed 27/5/15</b> | [Gantt bar spanning from Jan 2014 to May 2015] |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 8  | Plan Preparation and submission for approval  | 75 days           | Tue 28/1/14        | Sat 12/4/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 9  | Preparation for 1st CLG meeting   | 10 days           | Sun 13/4/14        | Tue 22/4/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 10 | Plan implementation   | 400 days          | Wed 23/4/14        | Wed 27/5/15        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 11 | Material & Method Statement submission  | 120 days          | Tue 28/1/14        | Tue 27/5/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 12 | <b>Noise Barrier System submission</b>  | <b>64 days</b>    | <b>Sat 15/3/14</b> | <b>Sat 17/5/14</b> | [Gantt bar spanning from Mar 2014 to May 2014] |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 13 | Preparation for material submission and approval  | 15 days           | Sat 15/3/14        | Sat 29/3/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 14 | Preparation for shop drawing & design calculation submission and approval               | 42 days           | Sun 30/3/14        | Sat 10/5/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 15 | Design and Check Certificate provision  | 7 days            | Sun 11/5/14        | Sat 17/5/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 16 |   |                   |                    |                    |  |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 17 | <b>Section I Works - Noise barrier &amp; roadworks</b>                                  | <b>526 days</b>   | <b>Tue 28/1/14</b> | <b>Tue 7/7/15</b>  | [Gantt bar spanning from Jan 2014 to Jul 2015] |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 18 | TTA preparation   | 60 days           | Tue 28/1/14        | Fri 28/3/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 19 | TTA submission and approval and Gazette publication                                     | 67 days           | Sat 29/3/14        | Tue 3/6/14         | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 20 | CCTV inspection of existing drains/sewer and report submission                          | 30 days           | Mon 19/5/14        | Tue 17/6/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 21 | <b>Preparation works for T3 slip road closure on 8Jun 2014</b>                          | <b>12 days</b>    | <b>Wed 4/6/14</b>  | <b>Sun 15/6/14</b> | [Gantt bar spanning from Jun 2014 to Jun 2014] |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 22 | RA application  | 5 days            | Wed 4/6/14         | Sun 8/6/14         | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 23 | Permenant / temp. gantry sign plates replacement  | 5 days            | Wed 4/6/14         | Sun 8/6/14         | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 24 | Permenant / temp. traffic signs provision   | 7 days            | Mon 9/6/14         | Sun 15/6/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 25 | TTA set up for slip road lane closure   | 1 day             | Sun 8/6/14         | Sun 8/6/14         | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 26 | 1st stage modification of traffic signal at J/O Sha Tin Centre St & Lion Rock Tunnel Rd | 1 day             | Sun 8/6/14         | Sun 8/6/14         | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 27 | Road marking modification works   | 1 day             | Sun 8/6/14         | Sun 8/6/14         | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 28 | Sit setting out works   | 3 days            | Mon 9/6/14         | Wed 11/6/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 29 | UU detection and trialpit excavation  | 2 days            | Thu 12/6/14        | Fri 13/6/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 30 | UU diversion  | 7 days            | Sat 14/6/14        | Fri 20/6/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 31 | Joint site inspection with LCSD for site possession at LCSD area & record taking        | 7 days            | Mon 16/6/14        | Sun 22/6/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 32 | Site setup, Signboard and hoarding erection   | 14 days           | Sat 14/6/14        | Fri 27/6/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 33 | <b>Modification works to existing traffic sign plates and posts</b>                     | <b>353 days</b>   | <b>Mon 9/6/14</b>  | <b>Wed 27/5/15</b> | [Gantt bar spanning from Jun 2014 to May 2015] |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 34 | TTA submission & RA application   | 73 days           | Mon 9/6/14         | Wed 20/8/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 35 | TDS 1   | 35 days           | Thu 21/8/14        | Wed 24/9/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 36 | NTE/ST/SHATINRC-05  | 35 days           | Thu 25/9/14        | Wed 29/10/14       | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 37 | NTE/ST/TAIPO-37   | 35 days           | Thu 30/10/14       | Wed 3/12/14        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 38 | NTE/ST/SHATINRC-06  | 35 days           | Thu 4/12/14        | Wed 7/1/15         | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 39 | NTE/ST/SHATINRC-03  | 35 days           | Thu 8/1/15         | Wed 11/2/15        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 40 | NTE/ST/SHATINRC-01B   | 35 days           | Thu 12/2/15        | Wed 18/3/15        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |
| 41 | NTE/ST/TAICHUK-07   | 35 days           | Thu 19/3/15        | Wed 22/4/15        | [Task bar]                                     |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |     |





