

**Antiquities and Monuments Office**

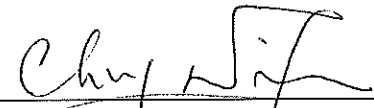
**Quotation Ref.: AMO1008008**

**Consultancy for Environmental Monitoring on the  
Major Restoration of the Residence of Ip Ting-Sz,  
Lin Ma Hang Tsuen, Sha Tau Kok**

Monthly Environmental Monitoring and Audit Report

Dec 2010

(Version 1.1)

Approved By	 Dr. Priscilla Choy (Independent Checker)
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**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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## 1. INTRODUCTION

### Background

- 1.1 Cinotech Consultant Limited (CINOTECH) was commissioned by Antiquities and Monuments Office (AMO) to undertake environmental monitoring and audit for the project “Provision of Consultancy for Environmental Monitoring on the Major Restoration to the Residence of Ip Ting-Sz, Lin Ma Hang Tsuen, Sha Tau Kok” (hereinafter called the “the Project”).
- 1.2 The residence of Ip Ting-sz (hereinafter called “the Residence”) is located at Lin Ma Hang Tsuen, Sha Tau Kok, New Territories, within the Closed Area. It was declared as a Monument in November 2009.
- 1.3 Major restoration works will be carried out to the Residence which include the complete reconstruction of roof, internal and external redecorations (Location plan showing the project area and work boundary is at **Appendix A**).
- 1.4 There is a small brick-built Annex attached to the Residence, which was used as a kitchen, it is not within the declared monument boundary. Emergency repair was carried out in 2005 to reconstruct the roof at the Annex and covered it with corrugated sheets, minimum repair works will be carried out to the Annex, as part of this major renovation project.
- 1.5 A Project Profile was prepared on August 2010 for direct application of Environmental Permit (EP).
- 1.6 An Environmental Permit (EP) (No. EP-400/2010) was issued on 29 September 2010 for Antiquities and Monuments Office, Leisure and Cultural Services Department as the Permit Holder.
- 1.7 Onsite environmental monitoring and audit will be carried out to ensure the proposed mitigation measures in the Project Profile are properly implemented throughout all phases of the project as required in the EP Section 2.8. A table of summary of mitigation measures is included in Appendix VI of the Project Profile.
- 1.8 Environmental monitoring and audit works for the Project was commenced on 1 December 2010.
- 1.9 This is monthly EM&A Report summarizing the EM&A works for the Project in December 2010.

### Project Organizations

- 1.10 Different parties with different levels of involvement in the project organization include:
- Project Proponent–Antiquities and Monuments Office (AMO)
  - Contractor – Kin Ming Construction Co. Ltd. (KM).
  - Independent Checker (IC) – Cinotech Consultants Limited (Cinotech).
- 1.11 The key contacts of the Project are shown in **Table 1.1** and the organization chart of ET is shown in **Figure 1**.

**Table 1.1 Key Project Contacts**

Party	Name	Role	Phone No.	Fax No.
AMO	Ms. Candy Chan	Senior Heritage Officer	3910 6608	3691 8185
	Mr. Lau Wing Kit	Heritage Officer	3910 6632	
	Ms. Sophia Mak	Heritage Officer	3910 6636	
KM	Mr. Bryan Leung	Project Manager	6332 9423	2807 1949
	Mr. Lawrence Au	Project Coordinator	6056 5173	
Cinotech	Dr. Priscilla Choy	Project Director	2151 2089	3107 1388
	Ms. Betty Choi	Project Coordinator	2151 2072	

### Construction Programme

- 1.12 The construction activities undertaken in the reporting month were:
- Site clearance
  - Scaffold erection
  - Hoarding erection
  - Tree felling
  - Take down the walls linking up the main building and the kitchen annex

### Summary of EM&A Requirement

- 1.13 On-site environmental monitoring and audit will be carried out to ensure the proposed mitigation measures listed in the Project Profile are properly implemented throughout all phases of the project.

## 2. ENVIRONMENTAL SITE AUDIT

- 2.1 Environmental site audits were carried out on biweekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 2.2 Site audits for the Project in the reporting month were conducted on 1, 15 and 29 December 2010. No non-compliance was observed during the site audits.
- 2.3 Site inspections were undertaken to ensure and check the compliance with the EP and that the implementation and maintenance of noise, air quality, solid waste, water quality and ecology mitigation measures are being properly carried out in the reporting month in accordance to section 5.3, 5.4, 5.5, 5.6 and 5.7 of the Project Profile respectively. No non-compliance was observed during the site inspections.
- 2.4 In accordance with to Condition 2.3 of the EP, bat surveys were conducted on 19 November and 1 December 2010. No more bat was found in the Kitchen Annex of the Residence on the second visit.
- 2.5 Approval from EPD was received on 14 December 2010 for commencement of construction works in the Residence and the work shall be carried out from November to March inclusive when bats were absent.
- 2.6 Renovation work was commenced from 14 December 2010.
- 2.7 A sample of site inspection checklist can be found in **Appendix B**. The summaries of site audits are attached in **Appendix C**.
- 2.8 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations are summarized in **Table 2.1**.

**Table 2.1 Observations and Recommendations of Site Audits**

Parameters	Date (Ref. No.)	Observations	Remediation/ Follow up
Water Quality	15-12-10 (101215-R-1)	Joints between bridge and upskirt were not taped.	The situation was improved/rectified on 29-12-10.
	15-12-10 (101215-R-5)	Part of upskirt was broken.	The situation was improved/rectified on 29-12-10.
	15-12-10 (101215-R-6)	No specific area for storing construction materials and chemicals.	The situation was improved/rectified on 29-12-10.
	15-12-10 (101215-R-2)	Sand bags were not placed along the edge of the	The situation was observed outstanding and remarked as

Parameters	Date (Ref. No.)	Observations	Remediation/ Follow up
		hoardings.	item 101229-R-1 on 29-12-10.
Air Quality	15-12-10 (101215-R-2)	The hoarding has not been fully erected.	The situation was improved/rectified on 29-12-10.
Waste/ Chemical Management	15-12-10 (101215-R-3)	Receptacle was not observed on site for storing waste.	The situation was improved/rectified on 29-12-10.
Permits/ Licences	15-12-10 (101215-R-4)	Environmental Permit and permit from AMO were not displayed.	Part of the situation was improved/rectified on 29-12-10. Outstanding situation was remarked as item 101229-R-2.

### Status of Environmental Licensing and Permitting

- 2.9 Environmental license or permit obtained in the reporting month is shown in **Table 2.2**.

**Table 2.2 Environmental License or Permit Obtained in Reporting Month**

Type of License/ Permit	Number	Valid Period		Detail	Status
		From	To		
EP	EP-400/20 10	29/9/2010	N/A	Location: Lin Ma Hang Tsuen, Sha Tau Kok	Valid
Section 6 Permit of the AMO (Cap.53)	LCS AM 51/2/11	9/11/2010	31/12/2011	Name of Permit Holder: Chief Heritage Manager of AMO Name of the Monument: Residence of Ip Ting-sz Address : Lin Ma Hang, Sha Tau Kok, New Territories	Valid

### Status of Waste Management

- 2.10 According to the contractor, waste generated up till now is mainly from demolition of the later addition between the Main Building and the Kitchen Annex: green bricks were salvaged for future use and corrugated sheet was still placed within the site. Other debris was collected by villagers for other use. So no construction waste was dumped. There was no chemical treatment in December.

### **Implementation Status of Environmental Mitigation Measures**

- 2.11 According to the Environmental Permit Section 2.9, the mitigation measures detailed in the documents are required to be implemented. Details of Implementation Status of Environmental Mitigation Measures are provided in **Appendix D**.

### **Summary of Complaints and Prosecutions**

- 2.12 No environmental complaint and prosecution related to the Project works was received

### **3. FUTURE KEY ISSUES**

#### **Key Issues for the Coming Month**

##### **3.1 Key environmental issues in the coming month include:**

- Removal of roof cover
- Repair of external walls
- Repair of timber structural floors
- Carpentry work
- Internal repairs & redecoration
- Repair of brickwork and walls in Kitchen Annex
- Storage of chemicals/fuel and chemical waste/waste oil on-site;
- Ponding water and surface runoff generated on rainy days;
- Silty surface runoff generated from the site area during rainy weather;
- Generation of dust from stockpiles of dusty materials and loading and unloading dusty materials on-site; and
- Noise from operation of equipment on-site

#### **Construction Programme for the Next Month**

##### **3.2 The tentative construction program for the Project is shown in **Appendix E**.**

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

##### **3.3 The tentative environmental monitoring schedule for coming month for the Project is provided in **Appendix F**.**



#### **4. CONCLUSION**

- 4.1 Three environmental site audits were performed in December 2010. No non-compliance was observed during the site audits.
- 4.2 No environmental complaint and prosecution related to the project was received in the reporting month.

##### **Recommendation**

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

##### *Air Quality*

- Temporary stockpiles of excavated material and sand shall be covered by tarpaulin or packed in plastic bags/enclosed skips and shall be removed off-site within 2 days.
- To implement dust suppression measures on all stockpiles and dried/unpaved surfaces and excavation

##### *Noise Impact*

- To use only hand-held power tools
- To provide adequate lubricant on mechanical equipments to reduce frictional noise; and
- To well maintain the mechanical equipments / machineries to avoid abnormal noise nuisance

##### *Water Impact*

- To identify any discharge of wastewater from the construction site;
- To avoid any discharge of wastewater by-pass/ without the desilting facilities from the construction site; and
- Any loose materials, sand, salvage, builders rubbish, etc, acrossing the bridge must be first carefully wrapped up in heavy duty PVC sheeting
- To avoid water from accumulation on site and carry out larviciding against mosquito breeding for stagnant water when mosquito larvae are observed.

##### *Waste/Chemical Management*

- To check for any accumulation of wasted materials or rubbish on site;
- To provide proper storage area or drip trays for oil containers/ equipments on site;
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the equipment;
- To well maintain the equipments and drip trays to avoid oil leakage; and
- To avoid improper handling or storage of oil drum on site.

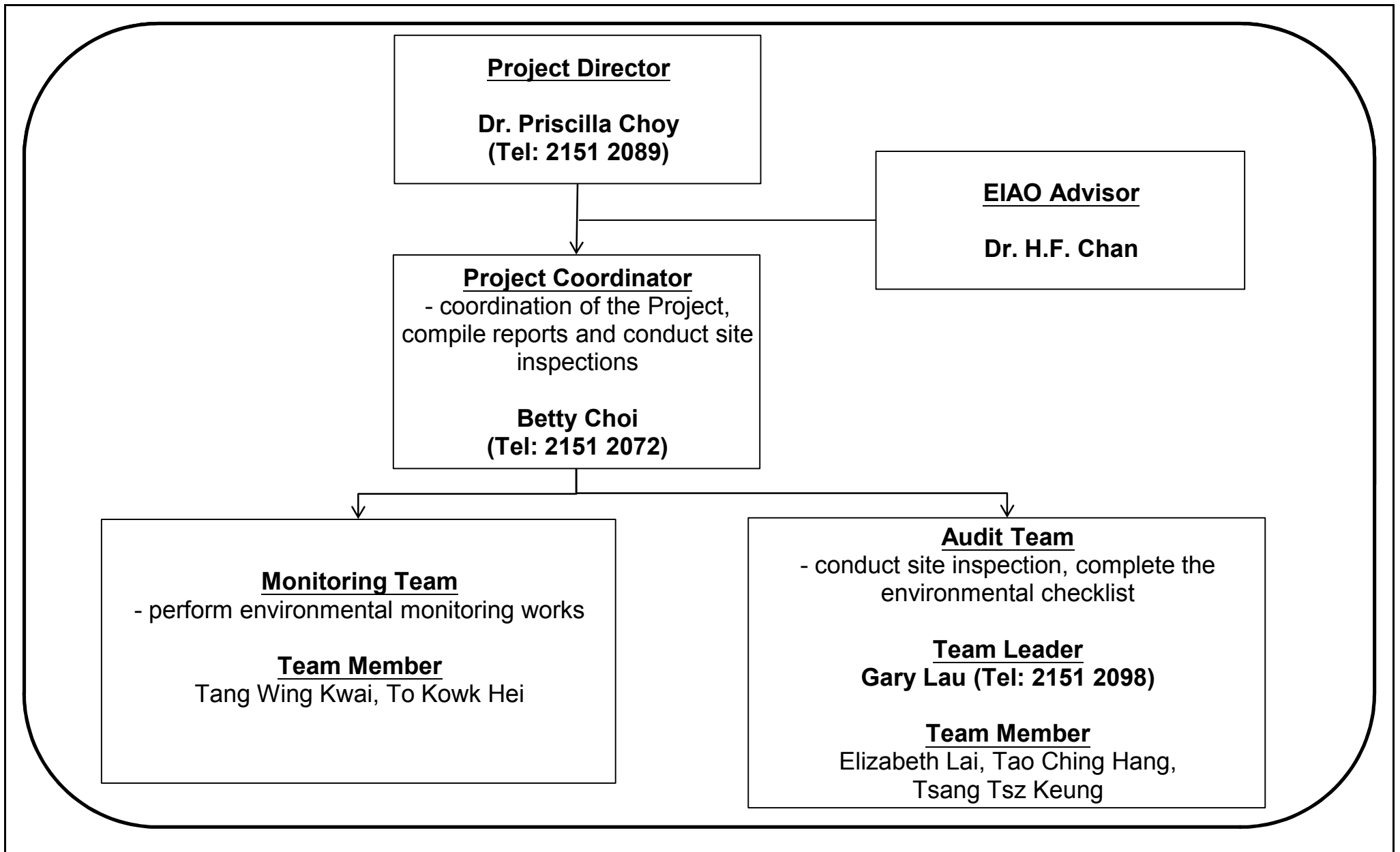
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**FIGURE 1  
ORGANIZATION CHART OF  
ENVIRONMENTAL TEAM**

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Title	<b>Provision of Consultancy for Environmental Monitoring on the Major Restoration to the Residence of Ip Ting-sz, Lin Ma Hang Tsuen, Sha Tau Kok</b>		Scale	N.T.S	Project No.	MA0060	<b>CINOTECH</b>
	<b>Organization Chart</b>		Date	Nov-10	Figure	1	

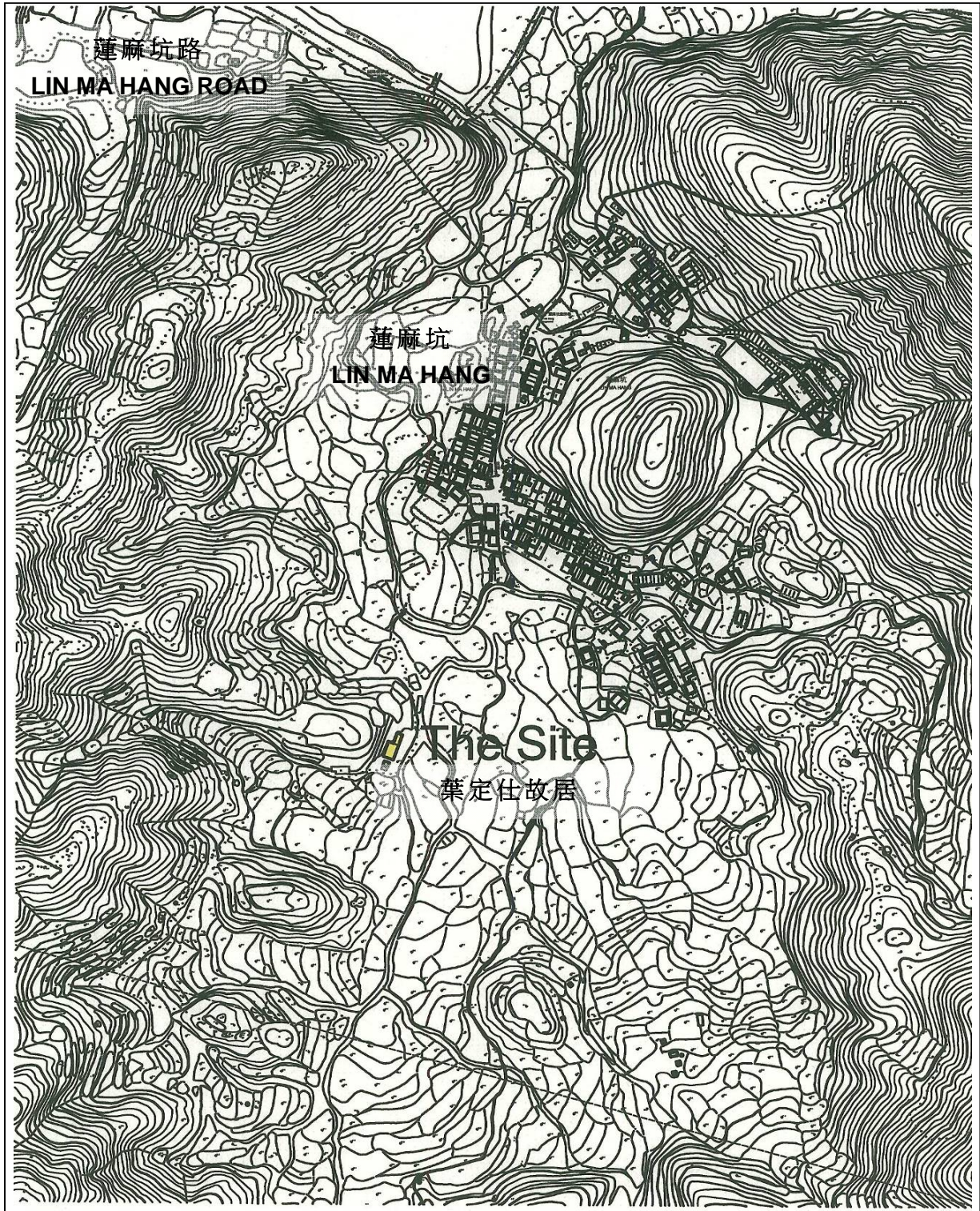
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**APPENDIX A  
LOCATION PLANS & WORK  
BOUNDARY OF THE PROJECT**

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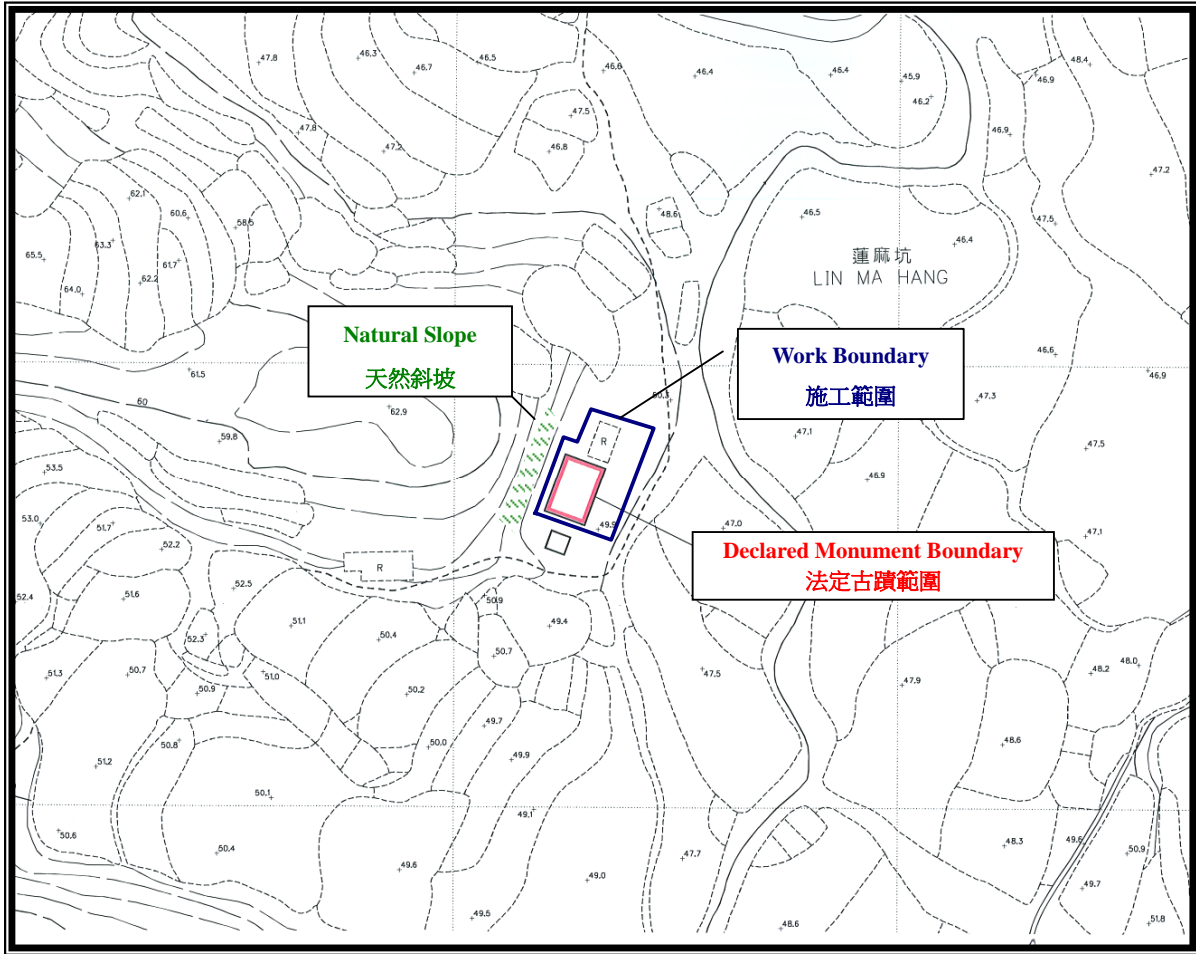
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Scale 1:5000

Location Plan  
位置圖



只作識別用 FOR IDENTIFICATION PURPOSE ONLY

## Work Boundary of the Project 施工範圍

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**APPENDIX B  
SITE INSPECTION CHECKLIST**

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# Environmental Monitoring and Audit Site Inspection Checklist

Audit Ref. No. \_\_\_\_\_

<b>Project</b>	<b>AMO1008008</b>	<b>Env. Team</b>	Cinotech Consultants Ltd.
	<b>Provision of Consultancy for Environmental Monitoring on the Major Restoration to the Residence of Ip Ting-sz, Lin Ma Hang Tsuen, Sha Tau Kok</b>	<b>Employer</b>	AMO
		<b>Contractor</b>	Kin Ming Construction Co. Ltd.
<b>Inspected By</b>	ET Auditor:		
	Contractor:	<b>Inspection Date</b>	
	Employer Rep:	<b>Time Period</b>	

**Weather Condition**

**Condition**  
 Sunny  
 Fine  
 Overcast  
 Drizzle  
 Rain  
 Storm  
 Hazy

**Temperature**    °C

**Humidity**  
 High (RH>90%)  
 Moderate (90%>RH>60%)  
 Low (RH<60%)

**Wind**  
 Calm  
 Light  
 Breeze  
 Strong

		N/A or not observed	Yes	No	Follow-up	N/C	Remarks
<b>Part A    Water Quality</b>							
<i>Bridge</i>							
1.	Is the surface of the bridge overlaid with plywood sheets of minimum 25mm thick with flexible/elastic underlay (rubber, plastic, etc.), of minimum 20mm thick in-between?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.	Are the joints between the sheets taped together by heavy-duty duct tape?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.	Is an upskirt of minimum 150mm high provided on both sides of the plywood sheets?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.	Are all cutting of the materials undertaken off site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Site</i>							
5.	Is concrete mixing activities observed on site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.	Is the waste water properly collected and stored in plastic tanks and filtered before discharging to drainage system?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.	Is the stored waste water taken by hand trolley to the nearest drainage point?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.	Are the construction materials stockpiled, properly covered and located away from the stream?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
9.	Is the distance between the hoarding and the stream maximised?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
10.	Are sand bags placed along the edge of the hoardings to prevent discharge of waste water to the stream?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
11.	Is waste water/ chemical leakage or spillage avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
12.	Is ponding/stand water avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
13.	Are debris and spoil on site covered up and/or properly disposed as soon as possible?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

## Environmental Monitoring and Audit Site Inspection Checklist

	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
<b>Part B Construction Noise Impact</b>						
1. Are hand-held power tools and hand-held manual tools used in this project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2. Is silenced equipment used where practicable?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4. Is the existing roof demolished by hand-held manual tools only?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5. Is heavy power-operated machinery applied on site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6. Is construction work stopped from 6pm to 8am and any time on Sundays and general holidays?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
7. Are all plant and equipment well maintained and in good operating condition?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
8. Is idle equipment turned off or throttled down?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
9. Major noise source(s)	<input type="checkbox"/> Traffic	<input type="checkbox"/> Construction activities inside of site				
	<input type="checkbox"/> Construction activities outside of site	<input type="checkbox"/> Others _____				

<b>Part C Air Quality</b>						
1. Are all trucks loaded to a level within the side and tail boards?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2. Is hoarding / fencing for designated area being erected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3. Is the reconstruction of roof and brickwork repairs carried out by using either handheld power tools or hand-held manual tools only?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4. Is free falling of debris during removal and dismantlement of the roof prevented?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5. Is debris carried in baskets or similar containers from the roof to ground level for disposal?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6. Is the floor regularly dampened with clean water to avoid spread of dust during the hacking-up of and removing of existing floor finishing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
7. Is the debris sprayed with clean water so that it remains damp before it is carted away?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
8. Is water continuously sprayed on the surface where any drilling, cutting or other small-scale breaking operation is carried out by using hand-held power tools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
9. Observable dust sources	<input type="checkbox"/> Wind erosion	<input type="checkbox"/> Vehicle/equipment movements				
	<input type="checkbox"/> Loading/unloading of materials	<input type="checkbox"/> Others _____				

## Environmental Monitoring and Audit Site Inspection Checklist

Part D Ecology	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
1. Does the construction work commence after confirming that no bat is found in the Residence?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2. Is the repairing work scheduled in dry season (November to March inclusive)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3. Is renovation work mainly taken place in the Residence?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4. Is minimum repairing work at the Kitchen Annex restricted to repairing, patching and cleaning on the external wall and the replacement of the corrugated roof with tiles only?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5. Is the existing purlin in the Kitchen Annex affected?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6. Are the corrugated sheets at the roof in the Kitchen Annex replaced by Chinese tiles?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
7. Are visitors prohibited from entering the annex?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
8. Is bat-friendly gate installed in the Kitchen Annex before operation phase?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
9. Is bat-friendly gate installed according to the specified design?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
10. Has the furniture in the Kitchen Annex been removed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
11. Is the woodland behind the Residence impacted by the project (e.g. unauthorized felling and damaging)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
12. Is the stream impacted by the project (e.g. deterioration of water quality)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
13. Is pruning of the two <i>Cinnamomum camphora</i> behind the Main Building kept minimal?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

Part E Waste/Chemical Management	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
1. General refuse						
1 i. Accumulation avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1 ii. Receptacles (e.g. rubbish bins) available?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
1 iii. Disposed of regularly and properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2 i. Are building materials re-used or repaired in the Residence as far as possible?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2 ii. Disposed off properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3. Is foam, oil, grease, litter or other objectionable matters in water of nearby drain/sewer avoided?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4. Are all plant and equipment well maintained to avoid chemical/fuel leakage?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5. Are drip trays provided with adequate capacity and maintained well?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6. Are loose materials, sand, salvage, builders rubbish, etc., that needs to be transported across the bridge, first carefully wrapped up in heavy duty PVC sheeting?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
7. Are all the unwanted construction and demolition waste transported to statutory landfill sites?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

## Environmental Monitoring and Audit Site Inspection Checklist

	N/A or not observed	Yes	No	Follow-up	N/C	Remarks
9. Are waste termiticide returned to its container and to be taken back to the contractor's workshop for filtering and future reuse?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
10. Are spent chemicals from any waste termiticide and normal domestic detergent handled, stored and disposed of correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
11. Are construction debris and spoil covered up and/ or properly disposed of as soon as possible?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

### Part F Permits/Licences

1. Is Environmental Permit displayed conspicuously on site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2. Is the Section 6 Permit of the Antiquities and Monuments Ordinance (Cap. 53) available for inspection?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

### Part G Follow-up for the Previous Site Audit (Ref. No. \_\_\_\_\_)

1. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
2. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
3. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
4. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
5. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
6. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
7. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
8. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
9. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
10. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
11. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
12. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
13. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
14. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____
15. Is the situation in item _____ improved/rectified?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	_____

**Environmental Monitoring and Audit  
Site Inspection Checklist**

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N/A or not observed    Yes    No    Follow-up    N/C    Remarks

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Remarks/Observations

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**Signatures:**

ET Auditor

Employer Representative

Contractor's Representative

\_\_\_\_\_  
(Name:                    )  
(Date:                    )

\_\_\_\_\_  
(Name:                    )  
(Date:                    )

\_\_\_\_\_  
(Name:                    )  
(Date:                    )

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**APPENDIX C**  
**SITE AUDIT SUMMARY**

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

**Quotation Ref.: AMO1008008**  
**Consultancy for Environmental Monitoring on the Major Restoration of the Residence of Ip Ting-Sz, Lin Ma Hang Tsuen, Sha Tau Kok**

**Biweekly Site Inspection Record Summary**  
**Inspection Information**

Checklist Reference Number	101201
Date	1 December 2010 (Wednesday)
Time	17:00– 18:00

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. Construction Noise Impact</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>C. Air Quality</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>D. Ecology</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>E. Waste / Chemical Management</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>F. Permits/Licences</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>G. Others</b>	
	• Follow-up from previous site inspection (s): N/A	

	Reminders	Related Item No.
	The Contractor was reminded to implement the following preventive measures:	
	<b>A. Water Quality</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>B. Construction Noise Impact</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>C. Air Quality</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>D. Ecology</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>E. Waste / Chemical Management</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>F. Permits/Licences</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>G. Others</b>	
	• Follow-up from previous site inspection (s): N/A	

	Name	Signature	Date
Recorded by	Betty Choi		2-12-2010
Checked by	Dr. Priscilla Choy		3-12-2010

Biweekly Site Inspection Record Summary

Inspection Information

Checklist Reference Number	101215
Date	15 December 2010 (Wednesday)
Time	10:30– 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<b>A. Water Quality</b>	
101215-R-1	• Joints between bridge and upskirt were not taped.	A2
101215-R-5	• Part of upskirt was broken.	A3
101215-R-6	• No specific area for storing construction materials and chemicals.	A8
101215-R-2	• Sand bags were not placed along the edge of the hoardings.	A10
	<b>B. Construction Noise Impact</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>C. Air Quality</b>	
101215-R-2	• The hoarding has not been fully erected.	A10
	<b>D. Ecology</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>E. Waste / Chemical Management</b>	
101215-R-3	• Receptacle was not observed on site for storing waste.	E1ii
	<b>F. Permits/Licences</b>	
101215-R-4	• Environmental Permit and permit from AMO were not displayed.	F1,F2
	<b>G. Others</b>	
	• Follow-up from previous site inspection (s): N/A	



Biweekly Site Inspection Record Summary

	Reminders	Related Item No.
	The Contractor was reminded to implement the following preventive measures:	
	<b>A. Water Quality</b>	
101215-R-1	• Joints between bridge and upskirt should be taped with heavy-duty duct tape.	A2
101215-R-5	• Broken upskirt should be repaired.	A3
101215-R-6	• Construction materials and chemicals should be placed neatly.	A8
101215-R-2	• Sand bags should be placed along the edge of the hoardings.	A10
	<b>B. Construction Noise Impact</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>C. Air Quality</b>	
101215-R-2	• The hoarding should be fully erected.	A10
	<b>D. Ecology</b>	
	• No environmental deficiency was identified during site inspection.	
	<b>E. Waste / Chemical Management</b>	
101215-R-3	• Receptacle should be provided for refuse collection.	E1ii
	<b>F. Permits/Licences</b>	
101215-R-4	• Environmental Permit and permit from AMO should be displayed conspicuously.	F1,F2
	<b>G. Others</b>	
	• Follow-up from previous site inspection (s): N/A	

	Name	Signature	Date
Recorded by	Betty Choi	Betty Choi	16-12-2010
Checked by	Dr. Priscilla Choy	WZ	17-12-2010

Biweekly Site Inspection Record Summary

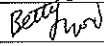

Inspection Information

Checklist Reference Number	101229
Date	29 December 2010 (Wednesday)
Time	10:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<b>A. Water Quality</b>	
101229-R-1	<ul style="list-style-type: none"> <li>Sand bags were not placed along the edge of the hoardings.</li> </ul>	A10
	<b>B. Construction Noise Impact</b>	
	<ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	<b>C. Air Quality</b>	
	<ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	<b>D. Ecology</b>	
	<ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	<b>E. Waste / Chemical Management</b>	
	<ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	<b>F. Permits/Licences</b>	
101229-R-2	<ul style="list-style-type: none"> <li>Permit from AMO were not displayed.</li> </ul>	F2
	<b>G. Others</b>	
	<ul style="list-style-type: none"> <li>Follow-up from previous site inspection (s): Environmental deficiencies 101215-R-2 and R-6 were not improved/rectified by the contractors. They are remarked as 101229-R-1 and R-2 in this site inspection respectively.</li> </ul>	

Biweekly Site Inspection Record Summary

	Reminders	Related Item No.
	The Contractor was reminded to implement the following preventive measures:	
	<b>A. Water Quality</b>	
101229-R-1	<ul style="list-style-type: none"> <li>Sand bags should be placed along the edge of the hoardings.</li> </ul>	A10
	<b>B. Construction Noise Impact</b>	
	<ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	<b>C. Air Quality</b>	
	<ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	<b>D. Ecology</b>	
	<ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	<b>E. Waste / Chemical Management</b>	
	<ul style="list-style-type: none"> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	<b>F. Permits/Licences</b>	
101229-R-2	<ul style="list-style-type: none"> <li>Permit from AMO should be displayed conspicuously.</li> </ul>	F2
	<b>G. Others</b>	
	<ul style="list-style-type: none"> <li>Follow-up from previous site inspection (s): Environmental deficiencies 101215-R-2 and R-6 were not improved/rectified by the contractors. They are remarked as 101229-R-1 and R-2 in this site inspection respectively.</li> </ul>	

	Name	Signature	Date
Recorded by	Betty Choi		30-12-2010
Checked by	Dr. Priscilla Choy		31-12-2010

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**APPENDIX D  
IMPLEMENTATION STATUS OF  
ENVIRONMENTAL MITIGATION  
MEASURES**

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## Appendix D - Environmental Mitigation Implementation Schedule (EMIS)

Types of Impacts	Mitigation Measures	Status
5.2.3	Overlay plywood sheets with flexible/elastic underlay as a temporary protection to the Old Bridge	V
5.3.1	Use of hand-held tools	N/A
5.3.2	Implement noise mitigation measures (e.g. use quieter tools)	N/A
5.3.3	No works will be carried out during 6 p.m. to 8 a.m. and any time on Sundays and General Holidays	V
5.4.1 (i)	Use basket and the like to carry debris from the roof to ground level for disposal	N/A
5.4.1 (ii)	Regularly dampen the floor	N/A
5.4.1 (iii)	Water spray	N/A
5.5.1	Construction and demolition material would transport to the landfill site	N/A
5.5.1	Any loose materials, sand, salvage, builders rubbish, etc , acrossing the bridge must be first carefully wrapped up in heavy duty PVC sheeting	N/A
5.6.1	Waste water would be stored and filtered before discharge into drains	N/A
5.6.1	Placing sand bags along the edge of the hoardings	#
5.6.1	Maximise the distance between the hoarding and the stream	V
5.6.2	Stockpiling of construction materials will be minimised and properly covered and located away from the SSSI Stream	V
5.6.2	Construction debris and spoil will be covered up and/ or properly disposed of as soon as possible	N/A
5.7.1 (i)	Renovation works mainly within the Residence	V
5.7.1 (ii)	The proposed works will be scheduled during dry season when bats leave the Residence for hibernation	V
5.7.1 (iii) and (iv)	Maintain the roosting site for bat at the Kitchen Annex	N/A
5.7.1 (iv)	Minimum repairing works in the Kitchen Annex	N/A
5.7.1 (vi)	Do not put any furniture inside the annex block	N/A
5.7.1 (vi)	Visitors are prohibited from entering the annex	N/A
5.7.1 (vii)	Provide the opening at Kitchen Annex with a bat-friendly gate	N/A

Remark:	V	Compliance of mitigation measure;
	N/A	Not Applicable/ Not observed;
	*	Recommendation was made during site audit but improved/rectified by the contractor.
	#	Recommendation was made during site audit and to be improved / rectified by the contractor.
	X	Non-compliance of mitigation measure;
	□	Non-compliance but rectified by the contractor;

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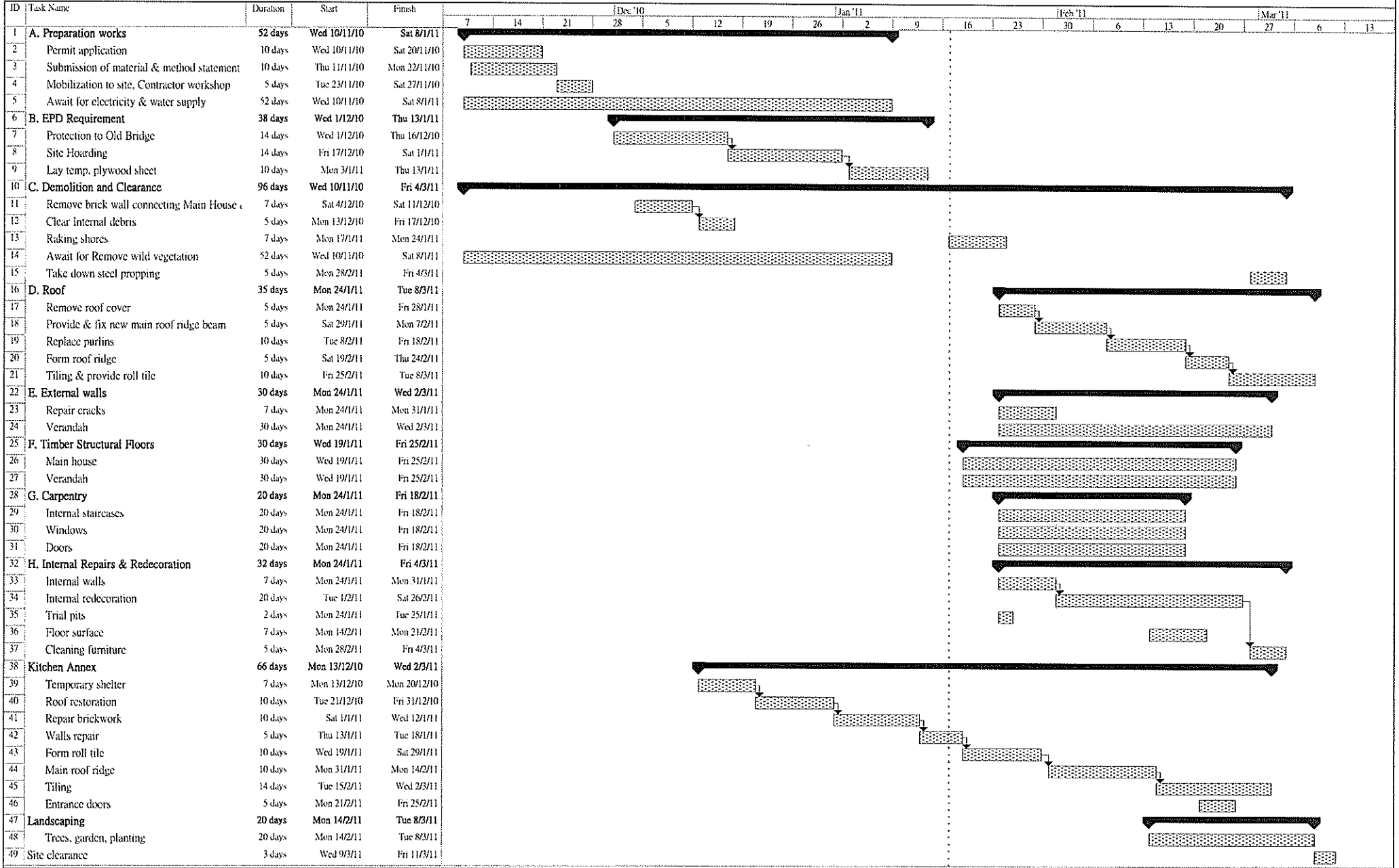
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**APPENDIX E**  
**CONSTRUCTION PROGRAMME**

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Programme for Provision of Restoration of Residence of Ip Ting-sz, Lin Ma Hang



Project Ip Ting-sz Program  
Date: Mon 17/1/11

Task Progress Summary External Tasks Deadline

Split Milestone Project Summary External Milestone

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**APPENDIX F  
SITE INSPECTION SCHEDULE IN THE  
COMING MONTH**

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**Quotation Ref.: AMO1008008**  
**Consultancy for Environmental Monitoring on the Major Restoration of the Residence of Ip Ting-Sz,**  
**Lin Ma Hang Tsuen, Sha Tau Kok**

**Tentative Site Inspection Schedule for January 2011**

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