Project: Site Formation and Associated Infrastructural Works for Development of Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery

Contract: Contract No. CV/2016/10 – Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery

Environmental Permit: FEP-01/534/2017/A

**Baseline Survey Report for Golden-Headed Cisticola** 

(Revision 5)

ECO-ENVIRO CONSULTANTS COMPANY

Prepared by

Keith Kei (Ecologist)



Our Ref: TCS00881/18/300/L0733

**Hsin Chong Tsun Yip Joint Venture** 

Hsin Chong Center, 107-109 Wai Yip Street, Kwun Tong, Kowloon, Hong Kong

Attn: Mr. HO Man To

21 April 2023 By e-mail

Dear Sirs,

Re: CEDD Contract CV/2016/10

> Site Formation and Associated Infrastructural Works for Development of **Columbarium at Sandy Ridge Cemetery**

Environmental Permit no. FEP-01/534/2017/A

Baseline Survey Report for Golden-Headed Cisticola (Revision 5)

I refer to the Baseline Survey Report for Golden-Headed Cisticola (Revision 5) prepared by the Qualified Ecologist, please note that the captioned submission has complied with the requirement as set out in the EM&A Manual we have no adverse comment on this submission. We herewith certify the captioned submission pursuant to Conditions Conditions 3.2(i) and 3.3 under Environmental Permit No. FEP-01/534/2017/A of the Environmental Permit no. FEP-01/534/2017/A.

Should you have any queries, please feel free to contact the undersigned at Tel: 2959-6059 or Fax: 2959-6079 or Email: twtam@fordbusiness.com.

Yours sincerely, For and on Behalf of

**Action-United Environmental Services & Consulting (AUES)** 

T. W. Tam

Environmental Team Leader

TW/ml

cc **CEDD**  Mr. SHUM Ngai Hung, Steven

By-email

Arup (RE)

Mr. Steve Tang

By-email

Acuity (IEC)

Mr. Jacky Leung

By-email

Tel Fax

(852) 2959-6059 (852) 2959-6079 Email info@fordbusiness.com







Our ref: PL-202304026

Hsin Chong Tsun Yip Joint Venture (CV/2016/10)
Hsin Chong Centre
107-109 Wai Yip Street
Kwun Tong, Kowloon
Hong Kong

Attention: Mr. HO Man-to

25 April 2023

Dear Sir,

Contract No. CV/2016/10

Site formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery

**Baseline Survey Report for Golden-Headed Cisticola** 

I refer to your ETL's email regarding the captioned Baseline Survey Report for Golden-Headed Cisticola (Revision 5), we have no adverse comment on the report. In accordance with Condition 2.18 of the FEP with EP No. FEP-01/534/2017/A, I verify that it conforms to the information and recommendations contained in the approved EIA Report (Register No. AEIAR-198/2016).

Yours faithfully,

Leung CH Jacky

CH Leung

Independent Environmental Checker

cc. CEDD-DPTL/Land Works – Mr. SHUM Steven ARUP – Mr. LEE Davis ET Leader – Mr. TAM

## **Executive Summary**

- ES.01. Hsin Chong Tsun Yip Joint Venture was awarded the CEDD Contract No. CV/2016/10 "Site Formation and Associated Infrastructural Works" (hereafter referred as "Contract 1") for Development of Columbarium at Sandy Ridge Cemetery on 15 December 2017. Since Contract 1 only covers a portion of location under the designated project, for ease of management, a further environmental permit was applied by the Contractor and Further Environmental Permit (FEP-01/534/2017) has been granted to HCTYJV from EPD on 23<sup>rd</sup> February 2018. Variation of Further Environmental Permit FEP-01/534/2017/A was subsequently issued by EPD on 24<sup>th</sup> December 2018.
- ES.02. This Baseline Survey Report for Golden-headed Cisticola presents the result of baseline of Golden-headed Cisticola and the nesting bird for the geographic location of FEP-01/534/2017/A.
- ES.03. A Monitoring Survey Plan for Golden-headed Cisticola for the geographic location Contract 1 of FEP-01/534/2017/A had submitted to EPD in accordance to Condition 2.19 of FEP-01/534/2017/A and approved subsequently.
- ES.04. According to FEP-01/534/2017/A Condition 3.2(i), baseline survey and monitoring of Golden-headed Cisticola was carried out in accordance with the approved plan. Moreover, precautionary checks for presence of nesting birds before any vegetation clearance in breeding season (February to July of every year) was carried out by a qualified ecologist to fulfill conditions 2.18 and 2.19 of FEP-01/534/2017/A. The baseline surveys and precautionary checks for presence of nesting birds were carried out by the Qualified Ecologist Mr. Keith L.W. Kei which approved by EPD under Condition 2.1 and 2.4 of FEP-01/534/2017/A.
- ES.05. Baseline surveys for Golden-headed Cisticola and the presence of nesting birds were conducted by the qualified ecologist on 24<sup>th</sup> April 2018, 11<sup>th</sup> and 13<sup>th</sup> May 2018 before the commencement of construction activities under Contract 1 and vegetation clearance. The activities for baseline survey for Golden-headed Cisticola and the presence of nesting birds for the geographic location of FEP-01/534/2017/A are summarised below table.

Monitoring Parameter	EP condition	Personnel	Survey Frequency	Surveyed date	Result
Baseline	FEP-	Qualified	Once before	24 <sup>th</sup> April	(i) No Golden-headed
survey and	01/534/20	Ecologist -	commencement	2018, 11 <sup>th</sup>	Cisticola nor its

Monitoring	toring EP Personnel Survey		Surveyed	Result	
Parameter	condition		Frequency	date	
monitoring of Golden-headed Cisticola	17/A Condition 3.2(i) and 3.3	Mr. Keith L.W. Kei	of construction works under Contract 1	and 13 <sup>th</sup> May 2018	breeding ground were recorded.  (ii) Besides, a total of 21 bird species were recorded during the three days survey.
Precautionary Checks	FEP- 01/534/20 17/A conditions 2.18 and 2.19	Qualified Ecologist – Mr. Keith L.W. Kei	Once per each plots before vegetation clearance and also once per plot before each vegetation clearance after commencement of construction works	24th April 2018 for Plots 1, 2, 3 & 11; 11th May 2018 for Plots 8, 9 & 10; and 13th May 2018 for Plots 4, 5, 6 & 7	<ul> <li>(i) A pair of Savanna Nightjar (<i>Caprimulgus affinis</i>) eggs was recorded at Plot 5 on 13<sup>th</sup> May 2018, but it was missing during the second visit on 16<sup>th</sup> May 2018.</li> <li>(ii) No other nesting bird was recorded during the precautionary checks.</li> </ul>
Exclusion Zone (confirmed with breeding Territories)	FEP- 01/534/20 17/A conditions 2.18 and 2.19	Qualified Ecologist – Mr. Keith L.W. Kei	Twice per week until young have fledged and are no longer dependent, or territorial activities have ceased	The setup carried out,	of exclusion zone was not as no nesting birds was previous survey.

ES.06. During the baseline survey, no Golden-headed Cisticola nor its breeding ground was recorded. As the precautionary check, a pair of Savanna Nightjar (Caprimulgus affinis) eggs was recorded at Plot 5 on 13<sup>th</sup> May 2018, but it was missing during the second visit on 16<sup>th</sup> May 2018. Besides, a total of 21 bird species were recorded during the three days survey.

## CONCLUSION

ES.07. As the presence of Golden-headed Cisticola was not observed during the baseline survey, no threshold could be recommended. Impact monitoring as part of the EM&A programme should be followed in according to the EM&A Manual. Standard good site practice measure should be implemented throughout the constriction phase to minimize the distribution to birds nearby. Below is a monitoring schedule for monitoring of Golden-headed Cisticola and nesting birds during construction phase, including vegetation clearance during breeding season.

Stage	Survey Frequency				
Impact monitoring of Golden-headed	Monthly bird survey as part of monitoring of				

Stage	Survey Frequency			
Cisticola	measures to minimize impacts to sensitive habitats			
	in the EM&A Manual			
Precautionary Checks of presence of	Once per plot before each vegetation clearance after			
nesting birds	commencement of construction works			
Exclusion Zone (confirmed with	Twice per week until young have fledged and are			
breeding Territories)	no longer dependent, or territorial activities have			
	ceased			

Table of Contents						
1. INTRODUC	CTION1					
2. METHODO	DLOGY2					
3. RESULT	4					
4. DISCUSSIO	ON5					
5. CONCLUSI	ION AND RECOMMENDATIONS6					
	Figures and Appendix					
T :-4 -6 T-1.1-						
List of Table	Destroyers d'Information of the Descline Courses					
Table 1	Background Information of the Baseline Surveys					
Table 2	Bird List Recorded for the Baseline Survey					
Table 3	Suggested Monitoring Schedule during Construction Phase					
List of Figure						
Figure 1a	The layout of Contract 1 to be implemented under FEP-01/534/2017/A					
Figure 1b	The layout of Contract 1 to be implemented under FEP-01/534/2017/A					
Figure 2	Proposed Access Roads					
Figure 3a	Work Area Separated into 11 Plots					
Figure 3b	Work Area Separated into 11 Plots					
Figure 4a	Transect of the Baseline Survey					
Figure 4b	Transect of the Baseline Survey					
Figure 5a	The distribution of the birds specie					
Figure 5b	The distribution of the birds specie					
<b>List of Figure</b>						
Annex A	Weather Conditions during the Surveys (extracted from HKO - Ta Kwu					
	Ling station)					
Photo Plate						
Photo Plate A	Photo Records for the baseline survey					
Photo Plate B	Photo Records for the precautionary checks					

### 1. Introduction

- 1.1 Civil Engineering and Development Department (hereafter referred as "CEDD") is the Project Proponent for the Project "Site Formation and Associated Infrastructural Works for Development of Columbarium, Crematorium and Related Facilities at Sandy Ridge Cemetery" (hereafter referred as "the Project"). The Project is a Designated Project to be implemented under Environmental Permit No. EP-534/2017/A. To facilitate the Project management, the Project works were separated into three different Contracts and they are listed below.
  - CEDD Contract No. CV/2016/10 Site Formation and Associated Infrastructural Works for Development of Columbarium at Sandy Ridge Cemetery (hereafter referred as "Contract 1")
  - CEDD Contract No. CV/2017/02 Infrastructural Works at Man Kam To Road and Lin Ma Hang Road for Development of Columbarium at Sandy Ridge Cemetery (hereafter referred as "Contract 2")
  - Other CEDD's Contract as related Development of Columbarium at Sandy Ridge Cemetery (hereafter referred as "Contract 3")
- 1.2 Hsin Chong Tsun Yip Joint Venture (hereinafter called the "HCTYJV") was awarded the CEDD Contract No. CV/2016/10 "Site Formation and Associated Infrastructural Works" for Development of Columbarium at Sandy Ridge Cemetery on 15 December 2017. Since Contract 1 only covers a portion of location under the designated project, for ease of management, a further environmental permit was applied by the Contractor and Further Environmental Permit (FEP-01/534/2017) has been granted to HCTYJV from EPD on 23<sup>rd</sup> February 2018. Variation of Further Environmental Permit FEP-01/534/2017/A was subsequently issued by EPD on 24<sup>th</sup> December 2018. The layout of the Contract 1 to be implemented under FEP-01/534/2017/A is shown in *Figure 1a and Figure 1b*. The size of Contract 1 is approximately 12.3 hectare. Major scope of works to be executed under the Contract 1 shall include to the following:
  - (i) Site formation of about 1.77 ha of land for the proposed pick-up and drop-off area for shuttle bus operation;
  - (ii) Upgrading of a section of 900m existing Sha Ling Road from 3m wide carriageway to 7.3m wide carriageway with footpath at both sides;
  - (iii) Construction of one EVA with a total length of about 160m;
  - (iv) Construction of noise barriers along Sha Ling Road;
  - (v) Modification of junction between Man Kam To Road and Sha Ling Road;
  - (vi) Construction of a new pick up / drop off point at Man Kam To Road;
  - (vii) Relocation and construction of a new refuse collection point near junction between

- Man Kam To Road and Sha Ling Road;
- (viii) Associated geotechnical works including cut and fill slopes, soil nailing works and retaining structures;
- (ix) Associated drainage, sewerage and waterworks along Sha Ling Road; and
- (x) Associated landscaping works.
- 1.3 As there will be a certain amount of vegetation clearance and tree felling required, suspected breeding of several bird species (including Chinese Francolin, Savannah Nightjar, Golden-headed Cisticola and Plain Prinia) which were recorded during the EIA Study (Appendix 9.5, EIA-236/2016, Register No.: AEIAR-198/2016) in the upland grassland will be affected. In the EIA Study, sixteen species of conservation importance have been recorded within the Project boundary, though most were in low number. Only Golden-headed Cisticola was recorded in significant number in comparison to the Hong Kong population and impact of this are assessment separately to those other species.
- 1.4 Golden-headed Cisticola is considered to be of Local Concern by Fellows et al. (2002). However, it is fairly widespread as a passage migrant and winter visitor in grassland habitat in the northern New Territories. In the EIA Study, the highest numbers of Goldenheaded Cisticola were recorded from upland Grassland slopes of low-moderate ecological value with a maximum number of 16 recorded. The impact on birds is temporary during the construction phase and the overall impact severity of disturbance impacts of low to moderate significance.
- 1.5 In 2018, there have been changes to the details design of the Project, application for variation of EP with supporting document was submitted to EPD and EP-534/2017/A was issued by EPD on 24 December 2018. Due to the amendment of site boundary, there would be reduction of Upland Grassland, however, the affected area was not related to the geographical location of Contract 1.
- 1.6 During the survey during VEP application stage, Golden-headed Cisticola was recorded on two occasions in grassland in or close to the proposed amendments (max count of 3 in Apr 2018). No records were made of singing birds holding obvious territory during surveys in May 2018 in this area close to the proposed amendments and no adverse impacts are predicted to this species. The EM&A Manual is still remaining valid as concluded in the VEP.
- 1.7 A Monitoring Survey Plan for Golden-headed Cisticola had submitted to EPD in

accordance to Condition 2.18 of FEP-01/534/2017/A and approved by EPD on 22 October 2019. According to FEP-01/534/2017/A Condition 3.2(i), baseline survey and monitoring of Golden-headed Cisticola is required in accordance the approved plan.

- 1.8 The Contractor planned to conduct small scale vegetation clearance for site access roads (*Figure 2*) after the baseline survey, precautionary checks for presence of nesting birds before any vegetation clearance in breeding season (February to July of every year) shall be carried out by a qualified ecologist to fulfill conditions 2.18 and 2.19 of FEP-01/534/2017/A. Further vegetation clearance within the construction site would be commenced in mid-August 2018, which beyond the breeding season. If vegetation clearance during breeding seasons is expected after commencement of construction works, such that the relevant precautionary checks and set up of exclusion zone are required.
- 1.9 This Baseline Survey Report for Golden-headed Cisticola presents the result of baseline survey of Golden-headed Cisticola and the presence of nesting birds for the geographic location of FEP-01/534/2017/A.

## 2. Method

- 2.1 Baseline survey for Golden-headed Cisticola as well as the precautionary checks for the presence of nesting birds were carried out before commencement of construction works under Contract 1 and vegetation clearance. Areas proposed for vegetation clearance were separated into 11 plots (*Figure 3a and Figure 3b*) and the size of which will dependent on the programme of works. Each plot was walked at a slow pace over as much ground as possible.
- 2.2 According to the EM&A Manual, surveys for breeding birds would be followed those outlined for Territory Mapping. The territory mapping method allowed the distribution of bird territories across the survey area to be determined and from this the number of breeding pairs for each species in the survey area can be derived. During the survey, all accessible internal field perimeters and paths within the survey area would be walked over by the surveyor. During each walkover the location and species of all birds encountered (including both those seen and those heard) were recorded on a map. All birds and their breeding behaviors (including but not limited to direct sight records, calling or singing adults, adults giving alarm calls or other vocalisations which might have strong territorial significance, aggressive encounters between adults, carrying of nesting material, food or faecal sacs, direct observations of birds sitting on, or flushed from, nests) would be recorded from these plots. These observations would be mapped as accurately as possible

to build a picture of breeding territories within each plot, and subsequently the Project site, to aid works programmes. Weather conditions during each survey, including amount of rain, wind speed and temperature will be recorded. The transect of the baseline survey is illustrated in *Figure 4*.

### **Establishment of Exclusion Zone**

- 2.3 Should any active nests be found during the survey, these should be left intact until the young have fledged or the nest becomes disused (e.g. abandoned). It would be necessary to leave a suitable buffer of vegetation cover around active nests during this time. This should be determined on a case by case basis depending on the species and surrounding habitat but should be a minimum of 5m around the nest. Where breeding territories have been confirmed, a suitable exclusion zone from the next (distance dependent on species) will be set up (using appropriate demarcation fencing) to prevent unauthorized access or accidental disturbance.
- 2.4 The breeding territories would be monitored twice per week until young have fledged and are no longer dependent, or territorial activities have ceased (e.g. through abandonment of nest); following departure from the nest, vegetation clearance could then proceed.
- 2.5 Weekly surveys would be commenced within one hour of sunrise, in order to record new breeding territories and monitor any identified territories.

## 3. Results

3.1 The baseline survey and precautionary checks of nesting birds were conducted on 24<sup>th</sup> April 2018, 11<sup>th</sup> and 13<sup>th</sup> May 2018 for all 11 plots before commencement of construction work of Contract 1 and vegetation clearance. The daytime surveys were commenced at dawn to cover the period of peak bird activity. The whole work areas were divided in to 11 plots, all existing road and accessible paths within the survey area has been walked over and the transect is shown in **Figure 4a and Figure 4b**. The background information of the baseline survey is presented in **Table 1**. The weather conditions during each survey, including amount of rain, wind speed and temperature were shown in **Annex A**.

Table 1 Background Information of the Baseline Surveys

Date	Survey Personnel		Weather	Surveyed	Size of plot	Transects
	Time		condition	Plots	$(\mathbf{m}^2)$	adopted
24 <sup>th</sup> April	06:00- Qualified		Cloudy	Plots 1, 2,	37638.1	Transect
2018	08:00 Ecologist – Mr.		-	3 & 11		walk
		Keith L.W. Kei				
11 <sup>th</sup> May	06:00-	Qualified	Cloudy	Plots 8, 9	37858.8	Transect

2018	08:00	Ecologist – Mr. Keith L.W. Kei		& 10		walk
13 <sup>th</sup> May	06:00-	Qualified	Fine	Plots 4, 5,	47499.6	Transect
2018	08:00	Ecologist – Mr.		6 & 7		walk
		Keith L.W. Kei				

3.2 During the baseline survey, no Golden-headed Cisticola nor its breeding ground was recorded. Besides, a total of 21 bird species were recorded during the three days survey. The bird list recorded for the baseline survey is shown in **Table 2** and the photo record is shown in **Photo Plate A**. The distribution of the birds species are illustrated in **Figure 5a** and **Figure 5b**.

Table 2 Bird List Recorded for the Baseline Survey

	English Name	Chinese Name	Scientific Name	Locations Recorded
1	Japanese White-eye	暗綠繡眼鳥	Zosterops japonicus	Plot 1, Plot 2, Plot 7
2	Masked Laughingthrush	黑臉噪鶥	Garrulax perspicillatus	Plot 1, Plot 7
3	Speckled Piculet	班姫啄木鳥	Picumnus innominatus	Plot 7
4	Indian Cuckoo	四聲杜鵑	Cuculus micropterus	Plot 7
5	Black Drongo	黑卷尾	Dicrurus macrocercus	Plot 6, Plot 7
6	Spotted Dove	珠頸斑鳩	Spilopelia chinensis	Plot 1, Plot 2, Plot 6
7	Asian Koel	噪鵑	Eudynamys scolopaceus	Plot 5
8	Crested Myna	八哥	Acridotheres cristatellus	Plot 1, Plot 2
9	White-throated Kingfisher	白胸翡翠	Halcyon smyrnensis	Plot 2, Plot 7
10	Sooty Bulbul	白喉紅臀鵯	Pycnonotus aurigaster	Plot 4, Plot 5
11	Chinese Francolin	中華鷓鴣	Francolinus pintadeanus	Plot 11, Plot 4
12	White-shouldered Starling	灰背椋鳥	Sturnia sinensis	Plot 3
13	Black-throated Laughingthrush	黑喉噪鶥	Garrulax chinensis	Plot 3
14	House Swift	小白腰雨燕	Apus nipalensis	Plot 3, Plot 4
15	Red-billed Blue Magpie	紅嘴藍鵲	Urocissa erythroryncha	Plot 11
16	Eurasian Magpie	喜鵲	Pica pica	Plot 10
17	Long-tailed Shrike	棕背伯勞	Lanius schach	Plot 10
18	Barn Swallow	家燕	Hirundo rustica	Plot 3, Plot 4, Plot 5, Plot 7, Plot 8, Plot 9
19	Chinese Bulbul	白頭鵯	Pycnonotus sinensis	Plot 1, Plot 6
20	Red-whiskered Bulbul	紅耳鵯	Pycnonotus jocosus	Plot 1, Plot 2
21	Savanna Nightjar	林夜鷹	Caprimulgus affinis	Plot 5

3.3 During the precautionary checks of presence of nesting bird among the 11 Plots, a pair of Savanna Nightjar (*Caprimulgus affinis*) eggs were recorded at Plot 5 on 13<sup>th</sup> May 2018 (**Photo Plate B**). An exclusion zone was set up immediately on the same day after the

Savanna Nightjar was recorded to prevent the eggs from disturbance and reported to AFCD immediately. A field visit with AFCD staff was conducted on 16<sup>th</sup> May 2018 to double check the Savanna Nightjar eggs recorded on Plot 5. However, both eggs were missing during the site visit and only portions of egg shells were found (**Photo Plat B**). It was suspected that the missing eggs might be abandoned by the adults or being eaten by other animals. Since temporary fence was set up for the eggs to avoid trespass, the chances of human disturbance were low.

## 4. Discussion

- 4.1 During the baseline survey, no Golden-headed Cisticola nor its breeding ground was record. Besides, 21 common bird species were recorded in the works area (11 Plots). During the precautionary checks of presence of nesting bird, no nesting nor breeding behavior was observed, and no nest was identified within the works area. The Savanna Nightjar eggs recorded in Plot 5 during the precautionary checks were missing during the AFCD field visit on 16<sup>th</sup> May 2018.
- 4.2 As the presence of Golden-headed Cisticola was not observed during the baseline survey, no threshold was recommended. However, impact monitoring as part of the EM&A programme should be followed in according to the EM&A Manual. A monitoring schedule suggests for construction phase and vegetation clearance during breeding season is shown in **Table 3.**

Table 3 Suggested Monitoring Schedule during Construction Phase

Stage	Survey Frequency			
Impact monitoring of	Monthly bird survey as part of monitoring of measures			
Golden-headed Cisticola	to minimize impacts to sensitive habitats in the EM&A			
	Manual			
Precautionary Checks of	Once per each plots before vegetation clearance			
presence of nesting birds				
Exclusion Zone (confirmed	Twice per week until young have fledged and are no			
with breeding Territories)	longer dependent, or territorial activities have ceased			

## 5. Conclusion and Recommendations

5.1 In conclusion, no Golden-headed Cisticola nor its breeding ground was record before commencement of construction works. Moreover, no nesting, breeding behavior or nests were recorded during and precautionary checks. The missing of the Savanna Nightjar

eggs recorded in Plot 5 seemed not related to any human disturbance after setting up the exclusion zone. It is recommended, extra attentions should be paid at the any bare land in the work area during the precautionary check surveys to check for any nest or eggs of Savanna Nightjar.

5.2 As the presence of Golden-headed Cisticola was not observed during the baseline survey, no threshold could be recommended. Impact monitoring as part of the EM&A programme should be followed in according to the EM&A Manual. Standard good site practice measure should be implemented throughout the constriction phase to minimize the distribution to birds nearby. A monitoring schedule suggests for construction phase and vegetation clearance during breeding season is shown in the table below.

Reference	Stage	Survey Frequency				
Document						
EM&A Manual	Impact monitoring of	Monthly bird survey as part of				
Section 10.4.1.17	Golden-headed	monitoring of measures to minimize				
	Cisticola	impacts to sensitive habitats in the				
		EM&A Manual				
EP-534/2017/A	Precautionary Checks Once per each plots before vegeta					
Condition 2.20 and	of presence of nesting	clearance				
EM&A Manual	birds					
EM&A Manual	Exclusion Zone	Twice per week until young have				
10.2.1.18	(confirmed with	fledged and are no longer dependent, or				
	breeding Territories)	territorial activities have ceased				

5.3 HCTYJV advised that further vegetation clearance within the construction site would be commenced in mid-August 2018, which beyond the breeding season. However, it was reminded that if vegetation clearance during breeding seasons is expected after commencement of construction works, such that the relevant precautionary checks and set up of exclusion zone are required.

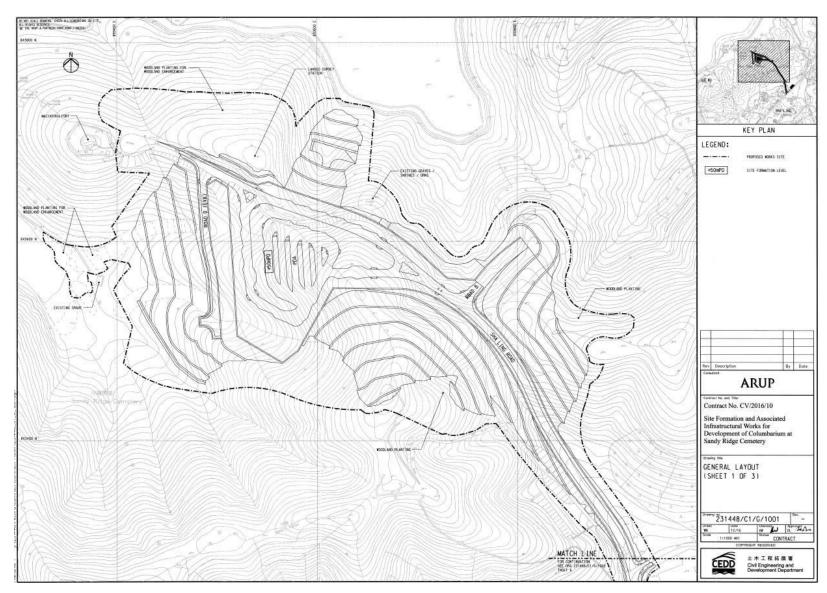


Figure 1a The layout of Contract 1 to be implemented under FEP-01/534/2017/A



Figure 1b The layout of Contract 1 to be implemented under FEP-01/534/2017/A

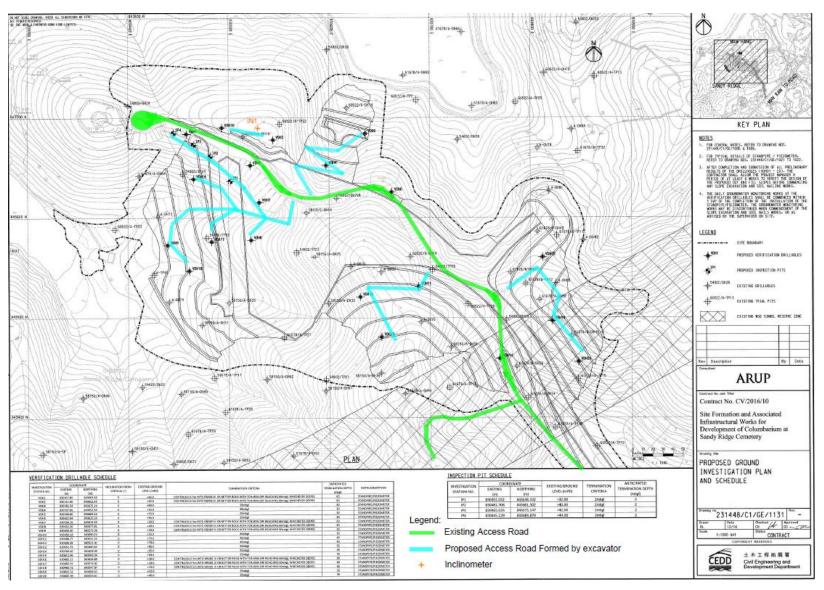


Figure 2 Proposed Access Roads

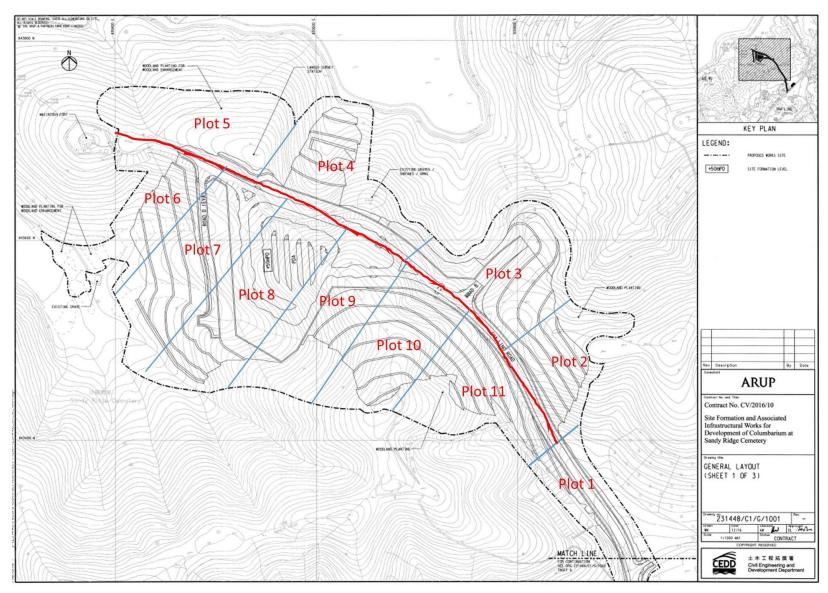


Figure 3a Work Area Separated into 11 Plots

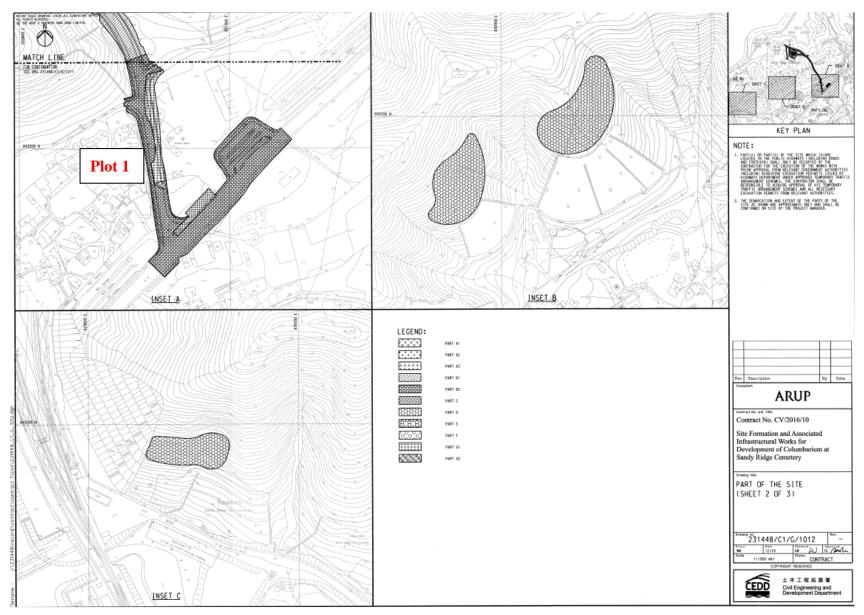


Figure 3b Work Area Separated into 11 Plots

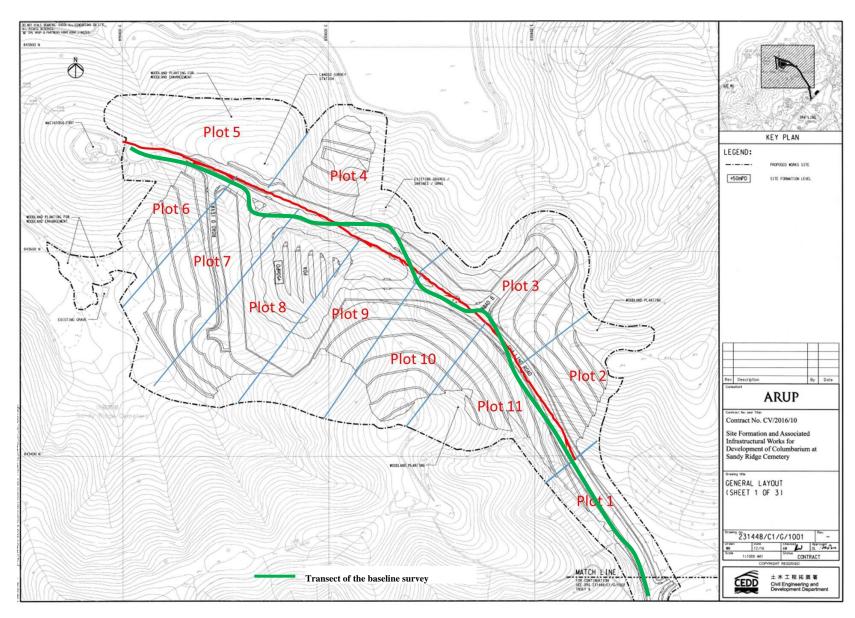


Figure 4a Transect of the Baseline Survey

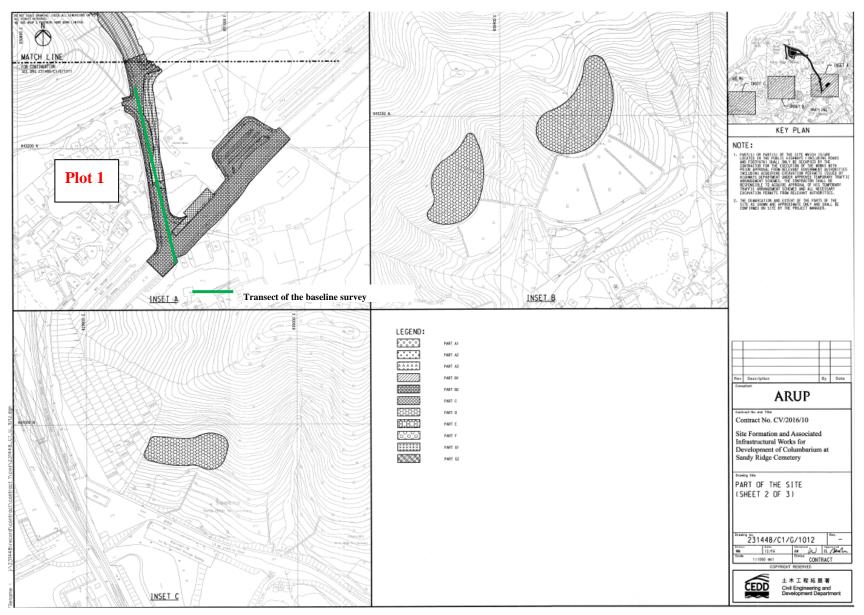


Figure 4b Transect of the Baseline Survey

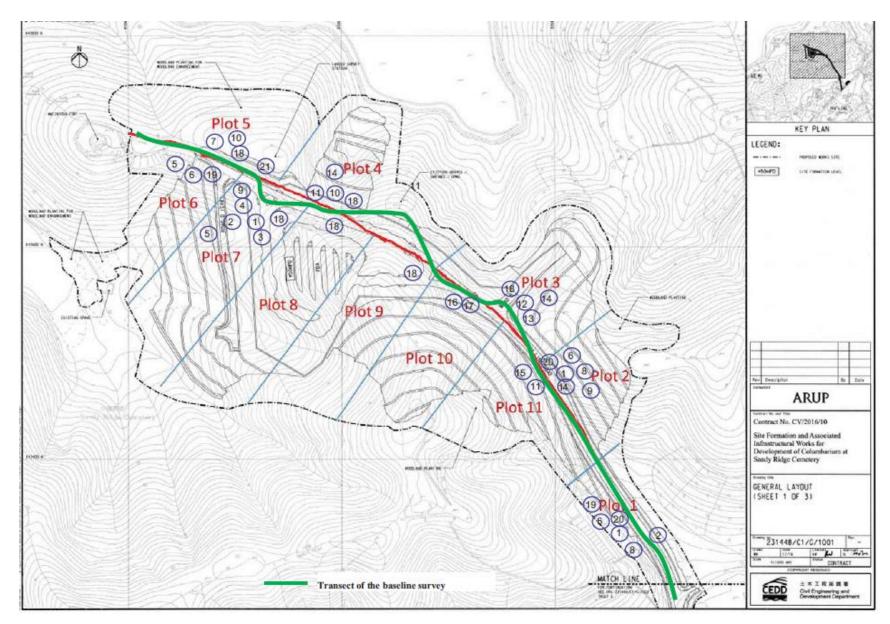


Figure 5a The distribution of the birds species

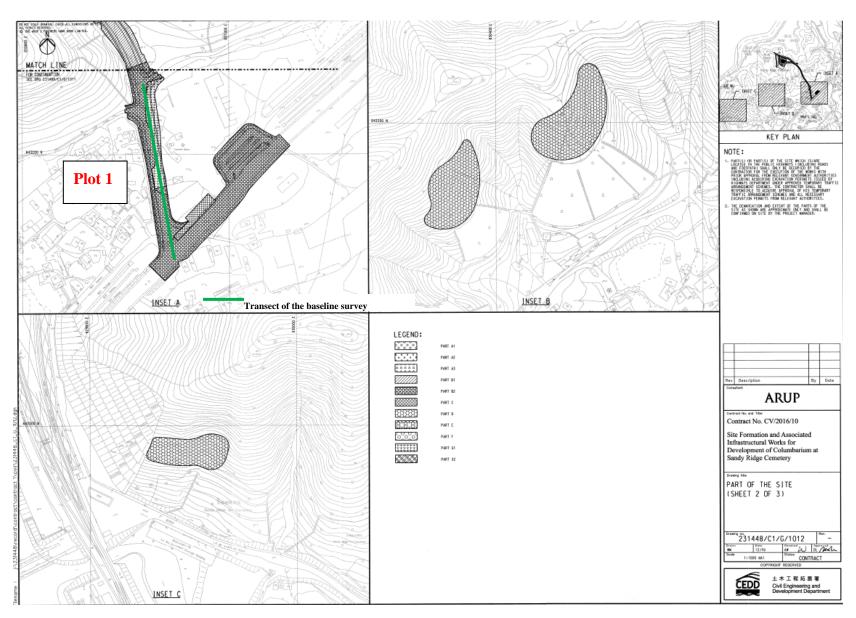


Figure 5b The distribution of the birds species

## Annex A

# $Weather\ Conditions\ during\ the\ Surveys\ (extracted\ from\ HKO\ -\ Ta\ Kwu\ Ling\ station)$

Date	Survey time	Personnel	Weather condition	Surveyed Plots	Mean Temperature (deg.C)	Total Rainfall (mm)	Mean wind speed (km/h)
24 <sup>th</sup> April 2018	06:00- 08:00	Qualified Ecologist – Mr. Keith L.W. Kei	Cloudy	Plots 1, 2, 3 & 11	24.5	2.5	3.8
11 <sup>th</sup> May 2018	06:00- 08:00	Qualified Ecologist – Mr. Keith L.W. Kei	Cloudy	Plots 8, 9 & 10	24.5	0	12.5
13 <sup>th</sup> May 2018	06:00- 08:00	Qualified Ecologist – Mr. Keith L.W. Kei	Fine	Plots 4, 5, 6 & 7	27.6	0	4.3

Photo Plate A - Photo Records for the baseline survey

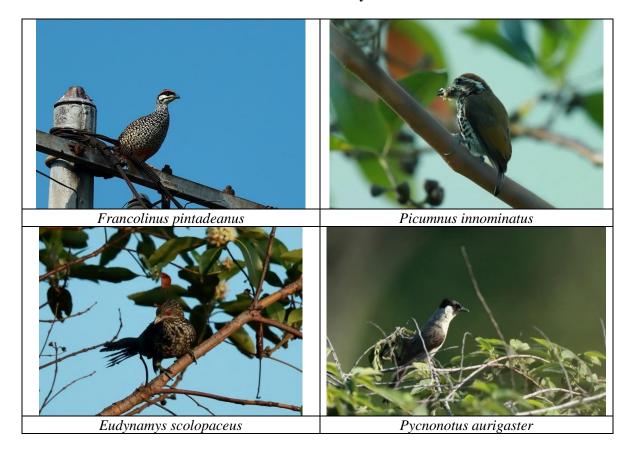


Photo Plate B - Photo Records for the precautionary checks



