

## 1 INTRODUCTION

### 1.1 Background

- 1.1.1 To provide appropriate support for livestock farms affected by the development of Northern Metropolis, Development Bureau (DEVB) and the relevant departments have set up an inter-departmental working group to draw up plans that will assist the affected livestock farmers, including identification of suitable government sites. The identified sites will be made ready with provision of basic infrastructure such as water supply, electricity supply, road access and sewerage, etc. to facilitate the relocation of livestock farms.
- 1.1.2 A site near the north-east boundary of Kwu Tung North New Development Area (KTN NDA) near Lo Wu Correctional Institution (i.e. Site KTN-2), inter alia, is identified as suitable to be used as multi-storey livestock farms by the industry for relocation of the affected livestock farms.
- 1.1.3 Considering that Site KTN-2 is located within KTN NDA, DEVB invited Civil Engineering and Development Department (CEDD) as works agent for the technical assessments to support the s16 application of land/pond filling. CEDD will also be responsible for the subsequent design and construction of the land/pond filling and associated infrastructure works for Site KTN-2. The formed site would be handed over to Agriculture, Fisheries and Conservation Department (AFCD) by end 2025 for further development.

### 1.2 Objectives of this Report

- 1.2.1 The boundary of Site KTN-2 contains or is close to some man-made slope features, which may affect or be affected by the proposed site formation works. Thus, there is a requirement to carry out a Geotechnical Planning Review Report (GPRR) to support the s16 application, according to the following requirements from GEO:
- where a slope steeper than 30°, or retaining wall, or combination of the two with a height greater than 6m exists on the site or within 6m of the site
- 1.2.2 The scope of this GPRR comprises a review of how man-made slope features shown on plan may affect or be affected by the proposed site formation works and in relation to this an assessment of the geotechnical feasibility of the proposed works, including an outline of any further studies that may be required. The components of this review include:
- Desk Study of existing information, including Aerial Photograph Interpretation (API);
  - Plans and maps showing the above features in relation to the proposed development.

## 2 SITE DESCRIPTION

### 2.1 General

2.1.1 The Site KTN-2 is approximately 12,400m<sup>2</sup> in total, located between the east of Lo Wu Correctional Institution and the west of Sheung Yue River. The Site is situated between Ng Tung River and Lo Wu Correctional Institution and is divided into two patches by Ho Sheung Heung Road. Some registered and unregistered fill slopes are present within the site boundaries. The location and extent of the Site KTN-2 is shown in **Figure 2.1**.

2.1.2 The Site KTN-2 is generally covered by vegetation. In the centre of the southern Site KTN-2, it appears to be a dried-up pond beneath the vegetation. Construction of water pipe works is in progress at southern to southwestern part of the Site at the time of report writing. An electricity pole and overhead power lines are observed in the northern Site KTN-2, while a pylon and overhead power lines are located at around 15m away from the nearest site boundary of the southern Site KTN-2 in the south.

### 2.2 Site Topography

2.2.1 The northern Site KTN-2 is gently sloping towards northwest and the existing ground level slightly drops from approximately +8mPD to +4mPD. The southern Site KTN-2 is a slightly depressed area where a dried-up pond is in the centre. The existing ground level varies from approximately +6mPD to +2mPD, and locally down to -2mPD within the dried-up pond. The topographical plan of the Site KTN-2 is shown in **Figure 2.2** based on the data from the 2020 LiDAR survey.