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By Post

Our Ref : P221002-WMP-R2.8-V Date : 14th August 2023

Binnies Hong Kong Limited 43/F, AIA Kowloon Tower, 100 How Ming Street, Kwun Tong, Kowloon, Hong Kong

Attn: Wilson CK Lam

Agreement No. DHSR/IEC/001

Consultancy Service of Independent Environmental Checker (IEC) for Relocation of Diamond Hill Fresh Water and Salt
Water Service Reservoirs to Caverns under Contract No. 21/WSD/21

Waste Management Plan

Dear Sir,

Pursuant to Condition 2.13 of Environmental Permit (EP) No. EP-602/2021, please note the Waste Management Plan Revision 2.8, dated 14 August 2023 submitted under the EP, certified by the Environmental Team Leader on 14 August 2023, had been reviewed and is hereby verified.

Should you have any query, please feel free to contact the undersigned at 3756 9590 or ivanting@umwelt.consulting .

Your faithfully,

For and on behalf of:

Umwelt Consulting Limited

Ting Po Chung Ivan

Independent Environmental Checker



Date: 14 August 2023

Your ref:

Our ref: PL-202308011

Binnies Hong Kong Limited 43/A, AIA Kowloon Tower 100 How Ming Street Kwun Tong, Kowloon Hong Kong

Attn.: Mr. Wilson C. K. Lam

Dear Mr. Lam,

Contract No. 21/WSD/21 Relocation of Demand Hill Fresh Water and Salt Water Service Reservoirs to Caverns **Certification of Waste Management Plan**

Reference is made to the Waste Management Plan (Revision 2.8) submitted by the Contractor on 14 August 2023. We are pleased to inform you that we have no adverse comment on the Waste Management Plan.

I hereby certify the Waste Management Plan (Revision 2.8) for submission under Condition 2.13 of Environmental Permit No. EP-602/2021.

Thank you for your attention.

Yours faithfully, For and on behalf of Aurecon Hong Kong Limited

F. C. Tsang

Environmental Team Leader

Tour Fauldeurg

Encl.

cc. Umwelt Consulting Limited Mr. Ivan Ting (IEC) via email Binnies Hong Kong Limited Mr. Howie Ho (RE) via email Chun Wo – Sinohydro JV Mr. Kenny Poon (Site Agent) via email



WASTE MANAGEMENT PLAN

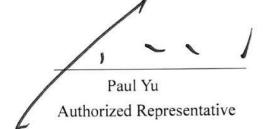
CONTRACT No. 21/WSD/21

RELOCATION OF DIAMOND HILL FRESH WATER AND SALT WATER RESERVOIRS TO CAVERNS

Approved by:

Revision: 2.8

Date : 14 Aug 2023



Waste Management Plan

Revision: 2.8

Date: 14 Aug 2023

Checked by:

Position	Signature	Name	Date
Authorized Representative	/1 ~.	Paul Yu	14 Aug 2023
Prepared by:			
35/	N N		

Waste Management Plan Contract No. 21/WSD/21

Relocation of Diamond Hill Fresh Water and Salt Water Reservoirs to Caverns

Revision No.: 2.8 Date: 14 Aug 2023

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0. Abbreviation and Acronyms

C&D Construction & Demolition

CEDD Civil Engineering and Development Department

CM Construction Manager

CTS Chit Ticket System

CP Competent Person for Operation of Chit Ticket System

DRS Daily Record Summary Form

EPD Environmental Protection Department

EO Environmental Officer

FEMU Front End Mobile Unit

RTTMV Real Time Tracking & Monitoring of Vessel

SA Site Agent

SE Site Engineer

SMP Site Management Plan
TTS Trip Ticket System
WFT Waste Flow Table

WMP Waste Management Plan

SupervisorBe Designated by the WSD (Binnies)Project ManagerBe Designated by the WSD (Binnies)

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1. Introduction

Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns Environmental Impact Assessment Report (Register No.: AEIAR-232/2021) was approved without conditions by Environmental Protection Department (EPD) on 16 November 2021. An Environmental Permit (EP-602/2021) was issued on 14 December 2021.

Chun Wo – Sinohydro JV (CWSJV) was commissioned by Water Supplies Department as the appointed main contractor for Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns.

This Waste Management Plan is developed and deposited in accordance with Condition 2.13 of Environmental Permit No.: EP-602/2021 and the Permit Holder shall, no later than 1 month before the commencement of construction of the Project or otherwise approved by the Director, deposit with the Director 3 hard copies and 1 electronic copy of a Waste Management Plan (WMP).

The WMP shall include:

An implementation schedule in table form to clearly list out the amount and disposal outlet for the
different types of waste arising, mitigation measures to be implemented, and the implementation
party, location, timing, and environmental performance required for implementation of the
mitigation measures (See *Appendix A*).

If there is any change to mitigation measures as recommended in the deposited WMP, the Permit Holder shall, no later than 1 month before the implementation of any such change, deposit with the Director 3 hard copies and 1 electronic copy of an updated WMP. The WMP and updated WMP shall be certified by the ET Leader and verified by the IEC as conforming to the relevant information and recommendations of the EIA Report (Register No. AEIAR-232/2021). All mitigation measures recommended and requirements specified in the WMP and the updated WMP shall be fully implemented.

The measures specified in this WMP will be implemented on-site to manage the disposal of construction and demolition (C&D) materials. The WMP will be reviewed and updated regularly. The following legislation covers or has some bearing upon the handling and disposal of wastes in Hong Kong, and will be used as the criteria:

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- Waste Disposal Ordinance and its subsidiary regulations;
- Waste Disposal (Chemical Waste) (General) Regulation;
- Public Health and Municipal Services Ordinance Public Cleansing and Prevention of Nuisances Regulation; and,
- Land (Miscellaneous Provisions) Ordinance.

In addition, The *Contractor* will refer to and comply with the following waste-related legislations/guidelines:

- A Guide to the Registration of Chemical Waste Producers;
- A Guide to the Chemical Waste Control Scheme;
- Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes;
- Chapter 9 of Hong Kong Planning and Standards Guidelines;
- Dumping at Sea Ordinance;
- Dangerous Goods Ordinance;
- Environment, Transport and Works Bureau Technical Circular No. 19/2005 Environmental Management on Construction Site
- Environment, Transport and Works Bureau Technical Circular (Works) No. 34/2002 Management of Dredged/Excavated Sediment (ETWB TC(W) No. 34/2002)
- CEDD Technical Circular No 11/2019 Management of Construction and Demolition Materials
- Development Bureau Technical Circular No. 6/2010 Trip-ticket System for Disposal of Construction and Demolition Material;
- Works Bureau Technical Circular No. 12/2002 Specifications Facilitating the Use of Recycled Aggregates;
- Works Bureau Technical Circular No. 06/2002A Enhanced Specification for Site Cleanliness and Tidiness;
- Works Bureau Technical Circular No. 06/2002 Enhanced Specification for Site Cleanliness and Tidiness;
- Works Bureau Technical Circular No. 19/2001 Metallic Site Hoardings and Signboards;
- Works Bureau Technical Circular No. 12/2000 Fill Management;
- Works Bureau Technical Circular No. 04/1998A Use of Public Fill in Reclamation and Earth Filling Projects;
- Works Bureau Technical Circular No. 04/1998 Use of Public Fill in Reclamation and Earth Filling Projects;
- Works Bureau Technical Circular No. 16/1996 Wet Soil in Public Dumps;

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- Works Bureau Technical Circular No. 02/1993B Public Filling Facilities;
- Works Bureau Technical Circular No. 02/1993 Public Dumps; and,
- Works Bureau Technical Circular No. 32/1992 The Use of Tropical Hardwood on Construction Sites.

1.1 Waste Management Policy

CHUN WO - SINOHYDRO JV has established the Waste Management Policy for the Contract. It outlines the principles and commitment in relation to the overall waste management performance and provide a framework for action and for the setting of waste management objectives and targets for waste management.

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Figure 1.1 Waste Management Policy statement



WASTE MANAGEMENT POLICY

CHUN WO - SINOHYDRO JV 's waste management objectives are to prevent environmental pollution, reduce waste and enhance waste recycling from our operations through the implementation of Waste Management System.

CHUN WO - SINOHYDRO JV is committed to:

- Provision of adequate and appropriate resources to implement this Policy;
- Compliance with environmental laws and other applicable requirements;
- Setting environmental objectives and targets that lead to environmental improvement in waste minimization and reduction;
- Conservation of natural resources and prevent wastage;
- Minimization of pollution by avoiding creating waste, maximizing beneficial reuse and recycling of material;
- Promoting environmental awareness of employees at all levels through the provision of appropriate advocation, education and training;
- · Communication of this Policy to all staff and interested parties; and
- Implementation of actions to prevent environmental pollution, reduce waste, enhance waste recycling and to improve environmental performance continuously.

All employees, subcontractors and suppliers are required to implement this Policy diligently. This Policy will be reviewed regularly in light of experience, feedbacks, current regulations and legislation.

Eric Tang General Manager CHUN WO CONSTRUCTION &

ENGINEERING CO., LTD

Chen Qi

Director
SINOHYDRO CORPERATE LIMITED

Date: 16 January 2023

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2. Waste Management Hierarchy

CHUN WO - SINOHYDRO JV will implement appropriate waste management practices according to the nature and category of wastes arising. Waste management options will be selected according to the widely accepted hierarchy shown by **Table 2.1** below.

Table 2.1 Waste Management Hierarchy

Avoidance and Avoid and minimize waste through changing				
minimization	or improving practices and designs.			
	Reuse construction waste with only limited			
Reuse of materials (with	Reuse of materials (with reprocessing such as uncontaminated soil,			
limited reprocessing)	reprocessing such as uncontaminated soil, wooden planks, metals and other materials in			
	other construction works or process.			
Recovery and Recycling Lindertelling on site or off site recycling				
(may require reprocessing)	Undertaking on-site or off site recycling.	Lowest		
Treatment	Offsite destruction and detoxification etc, of	Priority		
Treatment	wastes into less harmful substances.			
Dianogal	Release of wastes to designated areas	\downarrow		
Disposal	properly so as to render them harmless.	•		

The hierarchy will be used to evaluate waste management options for the minimization of waste generation. By the implementation of this hierarchy, the overall construction waste generation will be reduced by avoiding the over-ordering of construction materials and the handling and disposing of unnecessary waste.

3. Design and Planning of Construction Works

Prior to the commencement of the works, CHUN WO - SINOHYDRO JV will carefully consider the construction methodology and programme to assess the waste generation during the works and study the available opportunity to reduce waste arising. Good work planning will not only result in a better estimation of materials required for the works but will also contribute to the performance of the works in the first instance so as to avoid abortive activity.

The waste generation and timber consumption of the Project will be recorded and presented in the monthly summary 'Waste Flow Table' (WFT) and "Summary use of timber for Temporary Works construction" (See *Appendix B* and *Appendix C*).

Prior to the commencement of works, the location and necessary facilities for construction material storage, on-site sorting and temporary waste storage area will be planned and implemented (See *Appendix D*). The opportunity for the reuse and recycling of the waste material

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on-site and off-site will be carefully studied.

4. Sources of Waste and Disposal Location

Construction and Demolition (C&D) materials include public fill (inert material) and C&D wastes (non-inert material).

Public fill comprises soil, rocks, broken concrete, brick and aggregates whereas non-inert C&D waste includes chemical wastes, cleared vegetations, general refuse.

The following types of waste will be generated from the construction activities:

- C&D material containing inert and non-inert materials;
- Chemical Waste
- General Refuse

The disposal sites for the wastes generated from the project are shown in the Table 4.1.

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Table 4.1 Sources and Waste and Corresponding Disposal Site

Waste Type	Generated from	Materials Generated	Timing of Waste Generation	Disposal
C&D material –public	Soil Excavation,	Inert C&D materials –	2023-2027	Suitable material to be reused on site or to be
fill (inert)	Construction of PAB,	Debris, Rubble, Earth,		disposed to propose alternative disposal
	C&C Tunnel, Rock	Concrete		ground to be reused offsite or Tseung Kwan
	Blasting, Water Main			O Area 137 Fill Bank
C&D material – C&D	Laying, Demolition Works	Non-inert C&D	2023-2027	South East New Territories (SENT) Landfill
waste (non-inert)		materials except Timber,		
		Metal, Plastic and Paper		
		Non-inert C&D	2023-2027	Recycling Companies
		materials – Timber,		
		Metal, Plastic and Paper		
Chemical waste	Maintenance and servicing	Used Oil, spent solvent	2023-2027	Chemical Waste Treatment Centre
	of construction plant,	and asbestos containing		Designated landfill to be determined by EPD
	equipment and vehicle	materials		
	Building Demolition			
General Refuse	Site workforce	Food scarps, wastepaper,	2023-2027	South East New Territories (SENT) Landfill
		empty containers		

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Table 4.2 Summary of Different Types of Waste Volumes to be Generated during Construction Phase

	Inert	Inert C&D Materials		Non-inert C&D Materials		inert C&D Materials		General
Proposed Works (Programme)	Generated,	Re-used On-site, m ³	Disposal,	Generated,	Recycled Off-site, m ³	Disposal,	Waste	Refuse
Site Formation (2023)	7,770	0	7,770	159	112	47		
Construction of Tunnel Portal (2023-2024)	26,460	0	26,460	32	23	9		
Construction of Access Tunnel (2024-2025)	88,000	4,600	83,400	2,386	1,670	716		
Construction of Service Reservoirs, Pumping Stations and Ancillary Building in Caverns (2024-2026)	280,000	0	280,000	2,115	1,480	635	50 litres / year	65 kg/day
Fresh Water / Salt Water Mainlaying (2023-2027)	25,964	15,689	10,275	157	110	47		
E&M Installation (2026-2027)	0	0	0	30	21	9		
Total	428,194	20,289	407,905	4,879	3,416	1,463	-	-

Note:

^{*} The estimated quantities of C&D materials are based on the latest design of the Project and the available ground investigation data. The programme depends on the master program (see *Appendix E*)

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5. Construction and Demolition (C&D) Material

5.1 Inert Material

5.1.1 Maximising On-site and Off-site Reuse of C&D Materials

On-site Reuse of Inert C&D Materials and Import of Public Fill Materials

While all practicable measures will be employed for reuse of inert C&D material generated by the project before consideration of importing material, it is anticipated that approximately 20,289 m³ of the inert C&D materials generated by the project would be reused as the fill material.

5.1.2 Off-site Reuse of Surplus Inert C&D Materials

It is estimated that about 407,905 m³ of inert C&D materials generated by the project could not be reused on-site, this volume of surplus inert C&D materials would be delivered to Fill Bank at Tseung Kwan O Area 137 or potential projects in Hong Kong that would require public fill for beneficial use. Inert and non-inert C&D materials should be handled and stored separately to avoid mixing the two types of materials.

5.1.3 Arrangements for On-Site Handling or Storage

Temporary stockpiling of the inert C&D materials generated would be required in order to facilitate the subsequent reuse of such materials for the site formation work.

5.1.4 Disposal Arrangement

About 407,905 m³ of the surplus inert C&D materials that could not be reused on-site from site will be delivered to Fill Bank at Tseung Kwan O Area 137 by dump trucks.

Inert C&D materials which are to be disposed to public filling outlets will be broken down to a size less than 250mm as according to Dumping Licence conditions prior to disposal. Wet soil with free water or a liquid content of over 70% and other materials such as marine mud, pond mud, household refuse, plastic, metal, industrial and chemical waste matter etc. will not be loaded into the dump truck. This will be controlled by the Foreman during the earthwork operations and further verified at the exit checkpoint by Foreman before the trip ticket is issued for each truck.

5.1.5 Recommended Mitigation Measures

The following mitigation measures are recommended during construction phase:

- Appropriate measures to minimise windblown dust during transportation of waste by either covering trucks by tarpaulin/similar material or by transporting wastes in enclosed containers.
- Stockpiles of C&D materials should be kept covered by impervious sheets to avoid

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wind-blown dust;

- All dusty materials including C&D materials should be sprayed with water immediately prior
 to any loading transfer operation so as to keep the dusty material wet during material
 handling at the stockpile areas;
- To avoid or minimize dust emissions during transport of C&D materials within the site, each
 and every main temporary access should be paved with concrete, bituminous hardcore
 materials or metal plates and kept clear of dusty materials. Unpaved parts of the road should
 be sprayed with water or a dust suppression chemical so as to keep the entire road surface
 wet:
- The speed of the trucks including dump trucks carrying C&D materials within the site should be controlled to about 10 km/hour in order to reduce adverse dust impact and secure the safe movement around the site; and
- Dust control measures should be taken into account during stockpiling, loading / unloading and transportation of C&D materials.

5.2 Non-Inert Material

5.2.1 Arrangements for Avoidance, Minimisation, Recovery, Recycling, Reuse

The following arrangement measures shall be implemented during construction phase:

- •CHUN WO SINOHYDRO JV shall separate the non-inert C&D materials from the inert C&D materials on-site. Any recyclable materials (e.g., metal) should be segregated from the non-inert C&D materials.
- •Use of steel or aluminium formworks and falseworks for temporary works as far as practicable;
- Adoption of repetitive design to allow reuse of formworks as far as practicable;
- •Proper storage and site practices to minimise the potential for damage or contamination of construction materials;
- •Timber should be cleaned for reuse and timber formwork should be carefully dismantled to prevent damage. The timber should be de-nailed, cleaned and stacked neatly for re-use.

5.2.2 Arrangements for On-Site Handling or Storage

The non-inert C&D materials should be sorted on-site into recyclable (e.g., metal, paper, packaging and timber) and non-recyclable components (e.g., vegetation, organic material and soil), and the recyclable components should be made available for collection by recycling contractors. Different areas of the work site should be designated for such segregation and storage.

The non-inert C&D materials will be stored in separate covered storage areas to avoid possible cross contamination and loss due to windblown and fugitive dust. If the non-inert C&D materials are to be

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temporarily stored in piles on site, they will be covered with a tarpaulin to prevent the emission of fugitive dust.

5.2.3 Disposal Arrangement

Non-recyclable components of the non-inert C&D materials will be delivered to South New Territories (SENT) landfill by dump trucks.

Non-inert C&D materials which are to be disposed to landfill will ensure not have more than 50% (by weight) inert material prior to disposal.

5.2.4 Training on Waste Management

The EO and ES are responsible for carrying out the environmental training on waste management. They will analyse the problem and the detailed need of waste management training for the employees, consult with their departmental managers, and seek advice from the senior management.

The environmental training plan shall be reviewed by the EO in consultation with the Site Agent to identify and review training needs of the construction activities and to introduce new training program. The training plan will be included in the Environmental Management Plan (EMP). The EMP will be submitted to the Engineer for approval before construction works.

Workers will receive environmental toolbox talks conducted by the respective front-line Foreman, EO/ES. The toolbox talks will focus on on-site sorting of C&D materials to enhance workers' awareness in handling, sorting, reuse, and recycling of C&D materials.

5.2.5 Recommended Mitigation Measures

The following mitigation measures are recommended during construction phase:

- •Appropriate measures to minimise windblown dust during transportation of waste by either covering trucks by tarpaulin/ similar material or by transporting wastes in enclosed containers.
- •C&D materials to be delivered to and from the project site by trucks should be kept wet or covered to avoid wind-blown dust;
- •The speed of the trucks including dump trucks carrying C&D materials within the site should be controlled to about 10 km/hour in order to reduce adverse dust impact and secure the safe movement around the site.

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6. Chemical Waste

6.1 Arrangements for Avoidance, Minimisation, Recovery, Recycling, Reuse

The following arrangement measures shall be implemented during construction phase:

Good housekeeping practices should be adopted to deal with chemical waste include:

- •Generate less chemical waste through:
 - Delivering appropriate quantity of chemicals to the construction site.
 - Avoiding unnecessary wastage of chemicals by using the chemicals more sensible and in accordance with the manufacturer's instructions.
 - Finishing one bottle/container of chemicals before opening the next one for use.
 - Collecting the remaining chemicals in suitable containers.
 - Removing the unused chemicals out of the construction site after completion of the project.
- •Minimise the volume of unused chemicals to be disposed of through:
 - Using the chemicals before the expiry date.
 - Ordering appropriate quantity of chemicals and avoiding unnecessary storage of excess chemicals.

6.2 Arrangements for On-site Handling and Storage

Chemical waste should be handled in accordance with the Code of Practice on the Packaging, Handling and Storage of Chemical Waste. The details are described as follows:

Containers used for the storage of chemical waste should:

- Be suitable for the substance they are holding, resistant to corrosion, maintained in a good condition, and securely closed;
- Have a capacity of less than 450 litres unless the specification have been approved by EPD;
 and
- Display a label in English and Chinese in accordance with instruction prescribed in Schedule 2 of the Regulations.

The storage area for chemical waste should:

- Be clearly labelled and used solely for the storage of chemical waste;
- Be enclosed on at least three sides;
- Have an impermeable floor and bund to retain potential leakage of 110% capacity of the largest container or 20% of the storage capacity, whichever is greater;
- Have adequate ventilation;
- Be covered to prevent rainfall entering (water collected within the bund must be tested and disposed as chemical waste if necessary); and
- Be arranged so that incompatible materials are adequately separated.

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6.3 Disposal Arrangement

CHUN WO - SINOHYDRO JV shall register with the EPD as chemical waste producers. Materials classified as chemical wastes will require special handling and storage arrangements before offsite disposal at Chemical Waste Treatment Centre or other licensed chemical waste recycling/ treatment facilities.

6.4 Recommended Mitigation Measures

CHUN WO - SINOHYDRO JV shall follow the guidelines stated in the "Code of Practice on the Packaging Labelling and Storage of Chemical Wastes".

Preventive measures should be implemented for leakage and spillage of fuel and lubricating oil to avoid contamination of the construction site. All on-site equipment maintenance workshops should be located on impermeable areas with provision of drainage channels and interceptors to allow separation of oils from water and release of treated water. All plant and equipment should require regular maintenance. The maintenance records should be kept in site office for future reference.

7. General Refuse

7.1 Arrangements for Avoidance, Minimisation, Recovery, Recycling, Reuse

Site office management will promote environmental awareness and waste reduction by reducing the amount of paper generated (such as double-sided copying and reuse of wastepaper). Collection of recyclable materials such as aluminium cans, Polyethylene Terephthalate (PET) bottles and paper should be encouraged by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force.

7.2 Arrangements for On-Site Handling or Storage

The general refuse should be temporarily stored in enclosed bin to avoid adverse impact to the surroundings. Recycling bins should be provided to maximise waste reuse and recycle volume. Waste storage areas should be well maintained and cleaned regularly to avoid attracting pests and vermin.

7.3 Disposal Arrangement

General refuse will be disposed of at SENT landfill. A reputable waste collector should be employed by CHUN WO - SINOHYDRO JV to remove general refuse, separately from C&D material and chemical wastes. General waste will be collected regularly to minimise odour, pest, and litter impacts. The burning of refuse on construction sites (which is prohibited by law) or disposal at sites other than the approved waste transfer or disposal facilities should be prohibited.

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7.4 Recommended Mitigation Measures

General refuse should be stored in enclosed bins or compaction units separated from inert C&D material. Preferably an enclosed and covered area should be provided to reduce the occurrence of 'wind-blown' light material.

8. Site Organization and Staff Duties

A site organization structure would be established to identify a senior staff overseeing the operation of TTS; a designated person to fill in and sign Part 1 of the Daily Record Summary (DRS) before departure of the truck; a competent person (CP) to man the exit and record the CHIT no. and the truck information. The Site Organizational Chart showing the manpower resources for implementation of CTS (to be updated regularly) is attached in *Appendix F*.

8.1 Roles and Responsibilities

Construction Manager (CM)

The CM is responsible for provision of sufficient resources and facilities for effective and efficient implementation of WMP on-site. The CM will be ultimately responsible for overall coordination, implementation, monitoring and overseeing of the performance of the WMP for the contract. He will be assisted by Site Agent (SA).

Site Agent (SA)

The SA is responsible for assisting the CM for implementation WMP of the site. The SA is on-site full time and responsible for the review of site practices in relation to environmental management to ensure efficient and effective implementation of the WMP. He will be assisted by Works Manager (WM).

Works Manager (WM)

The WM is responsible for assisting the SA for implementation WMP of the site. The WM is responsible for day-to-day overview of site practices in relation to waste management to ensure efficient and effective implementation of the WMP. He will be assisted by Environmental Officer (EO).

Environmental Officer (EO)

The EO will oversee all environmental matters in the Contract. He will act as an in-house advisor to provide training and expertise to all levels of staff in respect of all environmental protection issues. The EO will also handle environmental complaints, carry out site surveillance to monitor the implementation of the WMP and review its effectiveness. The EO will report his work to the SA and will be assisted by the ES. The EO is responsible for the following tasks:

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- a. Prepare, implement and update the Waste Management Plan;
- b. Monitor onsite work to ensure compliance with the environmental requirements for the site;
- c. Assist the SA in handling any complaints that are received; and
- d. Ensure that the required environmental monitoring is carried out, and that all environmental monitoring results are recorded.
- e. Complete Part 2 of DRS.

Site Engineer (SE)

The SE will assist the SA and WM in carrying out day-to-day management of construction works and WMP implementation. He will work closely with the EO to provide him with information on site including the performance of the sub-Contractors and the occurrence of non-compliance etc.

Environmental Supervisor (ES)

The ES will assist the EO for inspection, supervision and monitoring of the environmental performance of the Works. The ES is responsible for the following tasks:

- Assist the EO to rectify any non-conformances with the environmental requirements of this WMP that are identified onsite;
- b. Attend environmental meetings related to waste management when necessary;
- c. Carry out environmental site inspections with the EO when deficiencies in waste management are identified; and
- d. Assist the EO with any environmental accidents.

Environmental Team (ET)

The ET will serve as an organization independent of the Contractors to audit the overall WMP compliance and prepare EM&A reports.

Foreman

Foreman shall be responsible for the following duties in relation to environmental and waste control.

- a. Assisting the EO in implementing the WMP;
- b. Assisting in the daily implementation of the WMP including the sorting and segregation of construction waste in to separate stockpiles/staging areas and where possible the recycling (via recycling containers) or reusing materials.

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c. Ensuring that, where possible, the generation of waste is avoided or minimized.

Competent Person (CP) for Operation of Trip Ticket System

The CP for operation of trip ticket system is responsible for ensuring that the trip-ticket system is followed and that all paperwork (e.g., CHIT and Daily Record Summary Form) is signed, completed and collected. The CP is also responsible to complete Part 1 of DRS.

9. Trip Ticket System

9.1 Site Procedure for Trip Ticket System

For the transportation of public fill and C&D materials, Designated Person will implement the following steps to ensure compliance with the requirements of the Trip Ticket System:

- Each vehicle load of public fill or C&D material transported off-site will be accompanied by a duly completed Chit after completion of Disposal Checklist for record (Samples of the Chit and Daily Record Summary Form are attached in *Appendix G*).
- Each truck carrying C&D materials leaving the Site for a disposal ground must bear a duly completed Chit, irrespective of the location and nature of the disposal ground; CP would be responsible for checking the Chit Ticket at dump truck departure and recording the number of Chit Ticket and time of departure in logbook and ready for inspection *Supervisor* at any time.
- Part A of Chit would be retained by CP for completion of Part 1 in the Daily Record Summary Form (DRS) extracted from the Contract Specification. Part B and Part C would be passed to the Truck Driver for disposal use.
- For every chit ticket issued to the truck driver, CP would check the loaded material and write the designated disposal ground on top of Part B of the Chit by hand to ensure the driver knows where to dispose of the material. The CP would also show the driver a location map indicating the route from the Site to the designated disposal ground to ensure the driver goes to the correct disposal ground.
- CP should complete Part 1 of DRS in duplicate and inform the *Supervisor* before the departure of the vehicle. Part 1 of DRS should be signed *Supervisor* before the departure of the vehicle, or at other time to be agreed between the *Supervisor* and Site Forman to suit site operations.
- Part C would be collected by the Operator of at the Disposal Facilities and a transaction record issued by the Disposal Facilities would be given to the Truck Driver at departure.
- CP would ensure the Truck Driver can return Part B and the corresponding transaction record
 within 2 working days after disposal for countercheck against Part A records. Warning letter
 would be issued to the truck service provider who does not return the Part B and corresponding
 transaction record on time.
- Environmental Officer shall check the information recorded in the DRS against available information including his own records and data from CEDD's website and then complete Part 2 of DRS form (attached with extract of the relevant "Construction Waste Transaction Records" posted on EPD's website) for submission to the by designated by the WSD Supervisor within 1 working day after the records are posted at the EPD website."

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• Environmental Officer would check the information recorded in the DRS against data from the website of Civil Engineering and Development Department (CEDD) [http://www.cedd.gov.hk/eng/services/tripticket/index.html] on a monthly basis to verify the disposal amount.

9.2 Recording System

The SA, with the assistance of the EO, will maintain contemporary records of the following documents in the site office during the Project period:

- a. Registration as a Chemical Waste Producer;
- b. Records of wastes generated, recycled and disposed;
- c. Trip-tickets & Chits (Part A) for disposal of C&D materials;
- d. Trip-tickets for disposal of chemical waste;
- e. Comprehensive register of the CHIT and Disposal Delivery From (DDF) issued; and
- f. Daily Record Summary.

All records will be maintained in a legible and clear manner and be stored and retained in such a way that they are readily retrievable on site in a suitable environment to prevent deterioration or damage and to prevent loss. All records shall be available for inspection by *Supervisor* upon request.

9.3 Video Recording System

CHUN WO - SINOHYDRO JV will provide, operate, and maintain, including all necessary cables, wirings, lightings and other accessories, a video recording system at the dump truck control point of exit/entrance installed with the following essential features to record all trucks leaving the site:

- The video cameras used in the system shall be of high resolution, lowlight and colour type;
- Power backup shall be provided to cater for accidental breakdown of the power supply to the system;
- Videos captured by the system shall be recorded continuously without break except with the agreement of the *Project Manager*, or in the month during which there is no disposal of C&D materials off the site for the entire month;
- Videos shall be captured in a format acceptable to the *Project Manager*, the registration mark of each vehicle leaving the site shall be recorded and;
- The loading conditions of dump trucks including empty trucks shall be captured;
- Securely protect the video cameras from being damaged or blocked;
- Design and construct all necessary temporary works, including any supporting frames and

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protections, for mounting the video cameras and their accessories;

- Provide the software and hardware for capturing the vehicle registration mark, and the time
 and date for the *Project Manager*'s immediate taking and viewing of photograph of every
 truck leaving the Site and viewing the recorded videos;
- Keep the videos record for at least 60 days and the photographs until such time as instructed by the *Project Manager*;
- Post sufficient notices at conspicuous positions to notify the workers, drivers and staff about the purpose of the video recording system in accordance with data protection principles set out in the Personal Data (Privacy) Ordinance;

If a video camera system cannot be installed at the exit due to site constraints or other reasons, CHUN WO - SINOHYDRO JV shall propose alternative methods of control for *Project Manager*'s approval prior to C&D material disposal.

9.4 Control Measures to Track Internal Movement Materials

Where trucks need to exit and re-enter the site for delivery of C&D materials generated by the Site, the procedures of trip ticket system for disposal of C&D materials at alternative disposal ground using DDF shall be followed so as to ensure that the C&D materials are not disposed of outside the Site in breach of the Contract. (Sample of Disposal Delivery Form (DDF) of Alternative Disposal Ground are attached in *Appendix H*).

10. GPS Tracking System

All dump trunks for disposal of C&D materials from site to the disposal grounds specified in the Contract and the alternative disposal grounds subsequently approved by the *Supervisor* shall be equipped with a global positioning system (GPS) tracking device.

The GPS service provides details of GPS tracking device together with written consent from dump truck owners, drivers for release of GPS vehicle location data of dump tracks to the *Project Manager* for monitoring purpose.

10.1 Installation

The GPS service providers should provide the service to maintain the corresponding historical GPS vehicle location data for at least 6 months after any C&D material disposal trips for retrieval if needed. The Contractor shall ensure that dump trucks requiring installation of GPS tracking device and subscription of monthly tracking services are not engaged with any tracking services provided by

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other public works contracts.

10.2 Operation

CHUN WO - SINOHYDRO JV shall establish site procedures to ensure that the GPS tracking device of each dump truck deployed for disposal of C&D materials under the Contract has been activated before departure from the Site.

CHUN WO - SINOHYDRO JV informs all dump truck owners and drivers that the vehicle location data obtained from the GPS tracking device ("GPS vehicle location data") of dump trucks for every trip involving disposal of C&D materials from the Site to disposal grounds gathered will be checked by CHUN WO - SINOHYDRO JV and the *Project Manager* regularly or on an as-needed basis.

Written consent from dump truck owners, drivers and all relevant personnel shall be obtained for release of GPS vehicle location data of dump trucks to CHUN WO - SINOHYDRO JV and the *Project Manager* for monitoring purpose.

CHUN WO - SINOHYDRO JV shall ensure a label be fixed at a prominent place inside the driver's cabin of each dump truck drawing the attention of drivers that the GPS vehicle location data of the dump truck will be logged throughout the whole disposal trip. CHUN WO - SINOHYDRO JV shall remind dump truck drivers to keep the GPS tracking device in an active mode throughout the whole disposal trip.

10.3 Monitoring

CHUN WO - SINOHYDRO JV shall maintain a register of dump trucks being deployed for use in the Contract. Information such as owners' details, vehicle license plate numbers, installation date and service provider of the GPS tracking device, etc. shall be included in the register. Such register shall be updated regularly and made available for inspection by the *Project Manager/Supervisor* upon request.

CHUN WO - SINOHYDRO JV shall appoint a senior staff member to be fully responsible for implementing and monitoring the operation of the GPS tracking device. The responsible staff member shall ensure that all disposal trips are checked and a monitoring summary with raw data, signed by the responsible staff member and checked by the Contractor's Agent, be maintained and kept on the Site. The monitoring summary shall be submitted by the CHUN WO - SINOHYDRO JV to the *Project Manager/Supervisor* upon request.

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CHUN WO - SINOHYDRO JV shall submit GPS vehicle location data, of any dump trucks for any periods throughout any C&D material disposal trips as specified by the *Project Manager/Supervisor* who will conduct spot checks for every 50 disposal trips or on an as-needed basis. CHUN WO –SINOHYDRO JV shall also appoint designated person(s) to spot check the GPS vehicle location data of all dump trucks on the following working day after disposal of C&D materials based on the Daily Record Summary.

11. Emergency Response Plan

Environmental emergencies on the construction site may result in adverse impacts to the surrounding environment. Potential environmental emergencies are identified below together with procedures formulated to deal with such situations.

11.1 Environmental Emergency

In the event of an environmental emergency, the following procedure will be followed:

- a. Immediately report the environmental emergency to the Supervisor, EO and SA;
- b. If necessary, notify the Police and evacuate all staff to a safe place outside the site;
- c. Identify the source and cause of environmental emergency and cease such activity as necessary;
- d. Carry out any remedial action to rectify the emergency situation;
- e. Recommence work activity if the emergency situation has been rectified; and
- f. Keep a record of the environmental emergency and remedial action taken.

11.2 Typhoon and adverse weather operations

During the typhoon and rainstorm season, the following additional precautions will be taken:

- a. Temporary access roads will be protected by crushed stone or gravel;
- b. If digging/backfilling trenches is necessary, this will be carried out in short sections;
- c. Stockpiles and temporary exposed slopes will be covered by an impermeable sheeting;
- d. Intercepting channels will be provided at the edge of the excavated area to prevent storm runoff from washing across the exposed surface; and,
- e. Silt removal facilities, channels and manholes will be maintained and the deposited silt and grit will be removed regularly.

When a typhoon or rainstorm is forecasted, the following actions will be taken:

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- a. All temporary covers to slopes and stockpiles will be secured; and,
- b. Silt removal facilities, channels and manholes will be checked to ensure that they can function properly.
- c. Any construction material, stockpiles and chemical placed near watercourses should immediately move to secured area.

11.3 Chemical Spillage

Environmental emergency procedures including chemical spill will be developed for the Project. Formal written emergency procedures will be provided to staff and workers, and emergency drills will be conducted regularly to ensure that people are familiar with the actual emergency. The procedures for dealing with spillage/ leakage of chemical waste will be as follows:

- a. The workers will be instructed to keep at a safe distance from the spillage/ leakage. If necessary, emergency evacuation will be initiated and the emergency services notified;
- b. Adjacent worksites and private homes, if any, will be notified for the emergency situation;
- c. Only trained persons equipped with suitable protective clothing and equipment will be allowed to clean up the spillage/leakage;
- d. Where the chemical spillage area is small, the spill will be confined within earth barriers and the waste will be transferred back into suitable containers or soaked with suitable absorbing materials. The used absorbing materials will be treated as chemical waste and transferred to suitable containers for disposal;
- e. During the clean up, all heat and ignitable sources will be switched off; and,
- f. The spraying of water to wash away the spill will be prohibited since some chemicals are likely to be bought.

If the spillage/ leakage is large, other concerned parties such as safety, security and sub-contractor's representatives will be notified to assess the spillage/ leakage and determine the methods of clean up/ containment. If necessary, the police, emergency services, nearby worksites and residential developments will be notified.

12. Reporting

The EO will report on site execution of the procedures prescribed in WMP. Waste Flow Table will be used to record the quantities of C&D materials generated each month. The monthly WFT will be submitted on a monthly basis to the *Project Manager* throughout the construction period. The photos taken at the site showing collection and sorting of construction waste will be submitted on a monthly

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basis demonstrating that the waste recycling practice and measures are undertaking.

(END)



EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
S6.6.1	S2	The waste management hierarchy shall apply to the	Minimise	Contractor	All	Design and	• Waste
		construction waste management (i.e. in order of	waste		construction	Construction	Disposal
		desirability: avoidance, minimization, recycling,	generation		sites	stages	Ordinance
		treatment and safe disposal of waste).	during construction				• EIAO
S6.6.2	S5.2.4	The contractor should develop and provide toolbox	Minimise	Contractor	All	Construction	• Waste
		talk for on-site sorting of C&D materials to enhance	waste		construction	stage	Disposal
		workers' awareness in handling, sorting, reuse and	generation		sites		Ordinance
		recycling of C&D materials. Requirements for staff	during				• EIAO
		training should be included in the contractor's	construction				• ETWB TC(W)
		Environmental Management Plan (EMP). The EMP					No. 19/2005
		shall be submitted to the Architect/Engineer for					• DEVB TC(W)
		approval before construction works in accordance with					No. 6/2010
		ETWB TC(W) No.19/2005.					
\$6.6.3	S5	Good planning and site management practice	Ensure	Contractor	All	Construction	• Waste
	S6	should be employed to eliminate over ordering or	proper waste		construction	stage	Disposal
	S7	mixing of construction materials to reduce wastage.	management		sites		Ordinance
		Proper storage and site practices will minimise the	system				• EIAO
		damage or contamination of construction materials.	throughout				• ETWB TC(W)
			the				No. 19/2005
			construction				• DEVB TC(W)
							No. 6/2010

EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
\$6.6.4	S9	Where waste generation is unavoidable, the potential	Reduce	Contractor	All	Construction	• Waste
	S10	for recycling or reuse should be rigorously explored. If	waste		Construction	stage	Disposal
		waste cannot be recycled, disposal routes described in	generation				Ordinance
		the EMP should be followed. A recording system for					• EIAO
		the amount of wastes generated, recycled and					• ETWB TC(W)
		disposed (including the disposal sites) should be					No. 19/2005
		implemented. In order to monitor the disposal of					• DEVB TC(W)
		C&D material and solid wastes at public filling facilities					No. 6/2010
		and landfills and to					
		control fly-tipping, a trip-ticket system should be					
		included. One may make reference to DEVB TC(W)					
		No. 6/2010 for details.					
S6.6.5	S7.2	Regular cleaning and maintenance of the waste	Avoid odour,	Contractor	All	Construction	• DEVB TC(W)
		storage area should be provided.	pest and		construction	stage	No.8/2010
			litter impacts		sites		• ETWB TC(W)
							No. 19/2005
S6.6.6	S2	Best Management Practice	Ensure	Contractor	All	Construction	• EIAO
	S4	An on-site environmental co-ordinator should be	proper waste		construction	stage	• Waste
	S5	identified at the outset of the works. The co-ordinator	management		sites		Disposal
	S6	shall prepare an Environmental Management Plan	system				Ordinance
	S7	(EMP) incorporating waste management in accordance	throughout				• ETWB TCW
	S12	with the requirements set out in the ETWB TCW No.	the				No. 19/2005,
		19/2005, Environmental Management on Construction	construction				Environmental

EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
		Sites. The EMP shall include monthly and yearly Waste					Management
		Flow Tables					on
		(WFT) that indicate the amounts of waste generated,					Construction
		recycled and disposed of (including final disposal site),					Sites
		and which should be regularly updated. WFT will be					• DEVB TCW
		provided in the WMP which will form part of the EMP					No.6/2010
		in accordance with ETWB TCW No.19/2005;					• DEVB TCW
		• The reuse/recycling of all materials on site shall be					No. 8/2010
		investigated prior to treatment/ disposal off- site;					• WBTC
		• Good site practices shall be adopted from the					No.12/2000
		commencement of works to avoid the generation of					
		waste, reduce cross contamination of waste and to					
		promote waste minimisation;					
		• All waste materials shall be sorted on-site into inert					
		and non-inert C&D materials, and where the materials					
		can be recycled or reused, they shall be					
		further segregated.					
		• The contractor shall be responsible for identifying					
		what materials can be recycled/ reused, whether on-					
		site or off-site. In the event of the latter, the contractor					
		shall make arrangements for the collection of the					
		recyclable materials.					
		Any remaining non-inert C&D materials shall be					

EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
		collected and disposed of to the landfills whilst any					
		inert C&D materials shall be re-used on site as far as					
		possible.					
		Alternatively, if inert C&D materials cannot be reused					
		on-site, the materials would be delivered to public fill					
		reception facilities for beneficial reuse after obtaining					
		the appropriate licence;					
		• With reference to DEVB TCW No.6/2010, Trip-ticket					
		System for Disposal of Construction and Demolition					
		Material, a trip ticket system should be established					
		at the outset of the construction to monitor the					
		disposal of C&D materials and solid wastes from the site					
		to public filling facilities and landfills;					
		• Under the Waste Disposal (Chemical Waste) (General)					
		Regulation, the Contractor shall register as a Chemical					
		Waste Producer if chemical wastes such					
		as spent lubricants and paints are generated on site.					
		Only licensed chemical waste collectors shall be					
		employed to collect any chemical waste generated at					
		site. The handling, storage, transportation and disposal					
		of chemical wastes shall be conducted in accordance					
		with the Code of Practice on the					
		Packaging, Labelling and Storage of Chemical Wastes					

EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
		and A Guide to the Chemical Waste Control Scheme					
		both published by EPD;					
		A sufficient number of covered bins shall be provided					
		on site for the containment of general refuse. These					
		bins shall be cleared daily and the collected waste					
		disposed of to the refuse transfer station. Further to the					
		issue of DEVB TCW No. 8/2010, Enhanced Specification					
		for Site Cleanliness and Tidiness, the contractor is					
		required to maintain a clean and hygienic site					
		throughout the Project works;					
		Tool-box talks should be provided to workers about					
		the concepts of site cleanliness and appropriate waste					
		management procedures, including waste reduction,					
		reuse and recycling; and					
		The contractor shall comply with all relevant statutory					
		requirements and guidelines and their updated					
		versions that may be issued during the course of Project					
		construction.					
S6.6.7	S5	On-site Sorting, Reuse and Recycling	Reduce	Contractor	All	Construction	Waste
	S6	All waste materials should be segregated into	waste		construction	stage	Disposal
	S7	categories covering:	generation		sites		Ordinance
		Inert C&D materials suitable for reuse on-site;					• ETWB TCW
		Inert C&D materials suitable for public fill reception					No. 19/2005,

EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
		facilities;					Environmental
		Recyclable C&D materials for recycling;					Management
		Remaining C&D materials for landfill;					on
		Chemical waste; and					Construction
		General refuse for landfill.					Sites
\$6.6.8	S5.2.2	Proper segregation and disposal of construction waste	Reduce	Contractor	All	Construction	• Waste
		should be implemented. Separate containers should	waste		construction	stage	Disposal
		be provided for inert and non-inert materials.	generation		sites		Ordinance
							• ETWB TCW
							No. 19/2005,
							Environmental
							Management
							On
							Construction
							Sites
\$6.6.9	S3	Specific area should be allocated for on-site sorting of	Ensure	Contractor	All	Construction	Waste
		C&D materials and to provide a temporary storage	proper waste		construction	stage	Disposal
		area for those sorted materials. If area is limited, all	management		sites		Ordinance
		C&D materials should at least be sorted on-site into	system				• ETWB TCW
		inert and non-inert components. Non-inert C&D	throughout				No. 19/2005,
		materials such as bamboo, timber, vegetation,	the				Environmental
		packaging waste and other organic materials should be	construction				Management
		reused and recycled to local recycler wherever	in order to				on

EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
		possible and disposed to the designated landfill only as	reduce				Construction
		a last resort. Inert C&D materials such as concrete,	waste				Sites
		stone, clay, brick, soil, asphalt and the like should be	generation				• DEVB TCW
		separated and reused in this or other projects (subject					No.6/2010
		to approval by the relevant parties in accordance with					• DEVB TCW
		the DEVB TC(W) No. 6/2010) before disposed of at a					No. 8/2010
		public filling facility operated by CEDD. Steel and other					
		metals should be recovered from demolition waste					
		stream and recycled.					
S6.6.10	S5.1	The reuse of inert C&D materials such as soil,	Ensure	Contractor	All	Construction	• Waste
		rock and broken concrete should be maximised.	proper waste		construction	stage	Disposal
		Waste should be separated into fine, soft and hard	management		sites		Ordinance
		materials. With the use of a crusher. coarse materials	system				• WBTC No.
		can be crushed to make it suitable for use as fill	throughout				11/2002
		materials where fill is required in the works. This	the				
		minimises the use of imported materials and	construction				
		maximises the use of the C&D materials produced.	in order to				
		Approval from CEDD and EPD shall be obtained for the	reduce				
		use of site crusher in accordance with WBTC No.	waste				
		11/2002.	generation				
S6.6.11	S5.1	Excavated Materials	Minimise	Contractor	All	Construction	• Waste
		Excavated materials should be temporarily stored on-	dust, site		construction	stage	Disposal
		site for use as backfill as far as possible. It should be	runoff and		sites		Ordinance

EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
		properly covered with tarpaulin or similar impervious	waste				Air Pollution
		sheeting to prevent dust nuisance and site runoff.	impacts from				Control
		Surplus excavated materials should be	excavated				Ordinance
		disposed of to public fill reception facilities.	and C&D				• To control
			materials				the dust
							impact to
							meet HKAQO
							and EIAO-TM
							criteria
S6.6.12	S5.1.5	Control measures for temporary stockpiles	Minimise the	Contractor	All	Construction	• Waste
		on-site should be taken, which include:	noise,		construction	stage	Disposal
		Surface of stockpiled soil should be	generation		sites		Ordinance
		regularly wetted with water especially	of dust,				Air Pollution
		during dry season;	pollution of				Control
		Disturbance of stockpiled soil should be minimised;	water and				Ordinance
		Stockpiled soil should be properly covered with	visual impact				• To control
		tarpaulin especially when heavy rain storms are	from				the dust
		predicted;	excavated				impact to
		Stockpiling areas should be enclosed where space is	and C&D				meet HKAQO
		available;	materials				and EIAO-TM
		Stockpiling location should be away from the water					criteria
		bodies; and					• ETWB TC(W)
		An independent surface water drainage system					No. 19/2005

EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
		equipped with silt traps should be installed at the stockpiling area.					
S6.6.13	S5.1.4 S5.2.3	The Public Fill Committee of CEDD should be consulted for disposal of inert C&D materials to public fill reception facilities while EPD should be consulted for disposal of non-inert C&D materials to landfill. Disposal of C&D waste to landfill must not have more than 50% (by weight) inert material. The C&D waste delivered for landfill disposal should contain no free water and the liquid content should not exceed 70% by weight.	Minimise waste impacts from C&D materials	Contractor	All construction sites	Design and Construction stages	 Waste Disposal Ordinance ETWB TCW No. 19/2005, Environmental Management on Construction Sites DEVB TCW No.6/2010 DEVB TCW No. 8/2010
S6.6.14	\$5.1.5 \$5.2.5	In order to avoid dust impacts, any vehicle leaving a works area carrying C&D waste or public fill should have their load covered up before leaving the construction site.	Minimise the dust impact from transferring C&D material	Contractor	All construction sites	Construction stage	 Air Pollution Control Ordinance ETWB TCW No. 19/2005, Environmental Management

EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
S6.6.15	\$9	C&D materials should be disposed of at designated public fill reception facilities or landfills. Disposal of these materials for the use at other construction projects is subject to the approval of the Engineer and/or other relevant reception authorities.	Minimise waste impacts from C&D materials	Contractor	All construction sites	Construction stage	on Construction Sites DEVB TCW No.6/2010 DEVB TCW No. 8/2010 Waste Disposal Ordinance ETWB TCW No. 19/2005,
		Furthermore, unauthorised disposal of C&D materials in particular on private agricultural land is prohibited and may be subject to relevant enforcement and regulating actions. The disposal of public fill and C&D materials will be controlled through trip-ticket system in accordance with DEVB TC(W) No. 6/2010.	materials				Environmental Management on Construction Sites • DEVB TCW No.6/2010 • DEVB TCW No. 8/2010 • Cap 132BK
S6.6.16	S6.3	Chemical Waste	Proper waste	Contractors/	All	Construction	• Waste

EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
		Where the construction processes produce chemical	management	Relevant	construction	stage	Disposal
		waste, the contractor must register with EPD as a	for	Operators	sites		(Chemical
		chemical waste producer. Wastes classified as chemical	chemical				Waste)
		wastes are listed in the Waste Disposal (Chemical	waste				(General)
		Waste) (General) Regulation. These wastes are subject					Regulation
		to stringent disposal routes. EPD					• Code of
		requires information on the particulars of the waste					Practice on
		generation processes including the types of waste					the Packaging,
		produced, their location, quantities and generation					Labelling and
		rates. A nominated contact person must be registered					Storage of
		with EPD. An updated list of licensed chemical waste					Chemical
		collector can be obtained from EPD.					Waste
S6.6.17	S6.2	Storage, handling, transport and disposal of chemical	Proper waste	Contractors/	All	Construction	• Waste
		waste should be arranged in accordance with the Code	management	Relevant	construction	stage	Disposal
		of Practice on the Packaging, Labelling and Storage of	for	Operators	sites		(Chemical
		Chemical Wastes published by EPD, and collected by a	chemical				Waste)
		licensed chemical waste collector.	waste				(General)
							Regulation
							• Code of
							Practice on
							the Packaging,
							Labelling and
							Storage of

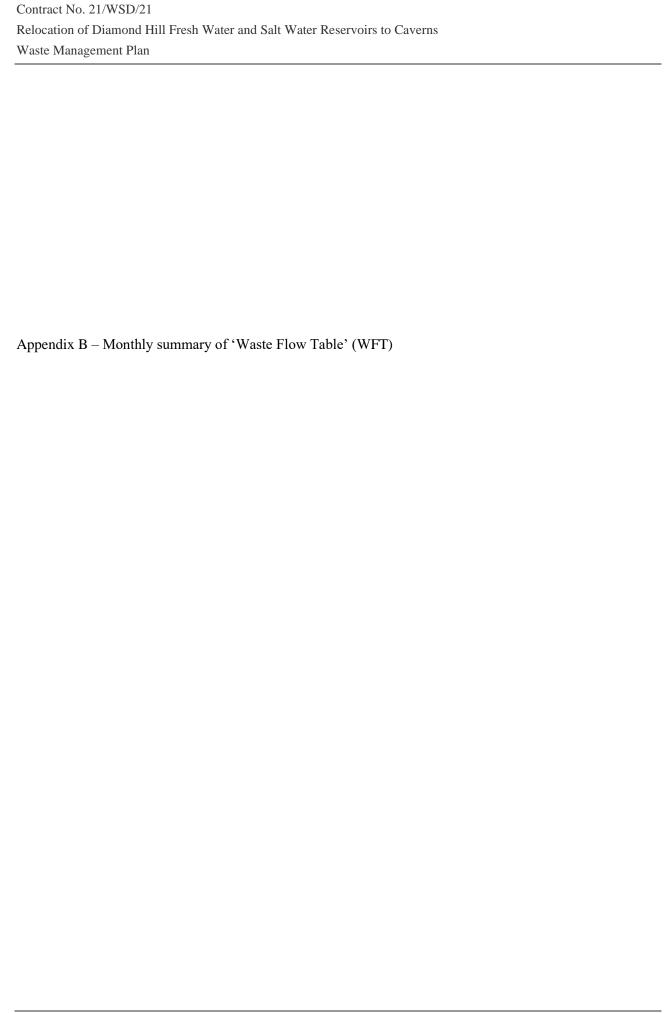
EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
							Chemical Waste
S6.6.18	S6.2	Suitable containers should be used for specific types of	Proper waste	Contractors/	All	Construction	• Waste
		chemical wastes. The containers should be properly	management	Relevant	construction	stage	Disposal
		labelled (in English and Chinese in accordance with	for	Operators	sites		(Chemical
		instructions prescribed in Schedule 2 of the	chemical				Waste)
		Regulations), resistance to corrosion, stored	waste				(General)
		safely and closely secured. Stored volume should not					Regulation
		be kept more than 450 liters unless the specification					• Code of
		has been approved by the EPD. Storage area should					Practice on
		be enclosed by three sides by a wall, partition of fence					the Packaging,
		that is at least 2 m height or height of tallest					Labelling and
		container with adequate ventilation and space.					Storage of
							Chemical
							Waste
S6.6.19	S6.2	Hard standing, impermeable surfaces draining via oil	Proper waste	Contractors/	All	Construction	• Waste
	S6.4	interceptors should be provided in works area	management	Relevant	construction	stage	Disposal
		compounds. Interceptors should be regularly emptied	for	Operators	sites		Ordinance
		to prevent release of oils and grease into the surface	chemical				• ETWB TCW
		water drainage system after accidental spillages. The	waste				No. 19/2005,
		interceptor should have a bypass to prevent flushing					Environmental
		during periods of heavy rain. Oil and fuel bunkers					Management
		should be bunded and/or enclosed on three sides to					on

EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
		prevent discharge due to accidental spillages or breaches of tanks. Bunding should be of sufficient capacity to accommodate 110% of the volume of the largest container or 20% of the total volume of waste, whichever is largest. Waste collected from any oil interceptors should be collected and disposed of by a licensed collector.					Construction Sites • Waste Disposal (Chemical Waste) (General) Regulation • EIAO-TM criteria
S6.6.20	S6.2	Lubricants, waste oils and other chemical wastes are likely to be generated during the maintenance of vehicles and mechanical equipment. Used lubricants should be collected and stored in individual containers which are fully labelled in English and Chinese and stored in a designated secure place. The chemical waste shall be collected by licensed chemical waste collectors.	Proper waste management for chemical waste	Contractors/ Relevant Operators	All construction sites	Construction stage	Waste Disposal (Chemical Waste) (General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste

EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
S6.6.21	S6.3	The registered chemical waste producer (i.e.	Proper waste	Contractors	All	Construction	• Waste
	S9	the contractor) has to arrange for the chemical waste	management	Relevant	construction	stage	Disposal
		to be collected by licensed collectors. The licensed	for	Operators	sites		(Chemical
		collector should regularly take chemical waste to a	chemical				Waste)
		licensed chemical waste treatment facility (such as the	waste				(General)
		CWTC in Tsing Yi). A trip ticket system					Regulation
		operates to control the movement of chemical wastes.					
S6.6.22	S6.4	No lubricants, oils, solvents or paint products should	Proper waste	Contractors/	All	Construction	• Waste
		be allowed to discharge into water courses, either by	management	Relevant	construction	stage	Disposal
		direct discharge, or as contaminants carried in surface	for	Operators	sites		(Chemical
		water runoff from the construction site.	chemical				Waste)
			waste				(General)
							Regulation
S6.6.23	S5.2.2	General Refuse	Minimise	Contractors	All	Construction	• Waste
		General refuse should be disposed of to landfill as	production		construction	stage	Disposal
		designated by EPD only after recyclable materials (e.g.	of the		sites		Ordinance
		paper, metals, aluminum cans, etc.) have been sorted	general				• Public
		out.	refuse and				Health
			avoid odour,				and Municipal
			pest and				Services
			litter impacts				Ordinance
							(Cap. 132)

EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
S6.6.24	S5.2	The contractor should nominate approved site	Minimise	Contractors	All	Construction	• Waste
		personnel to be responsible for good site practices,	production		construction	stage	Disposal
		arrangements for collection and effective disposal to	of the		sites		Ordinance
		an appropriate facility of all wastes generated at the	general				• Public
		site. Training of site personnel about site cleanliness,	refuse and				Health
		proper waste management and chemical handling	avoid odour,				and Municipal
		procedures should be provided. Recyclable materials	pest and				Services
		such as papers and aluminum cans should be	litter impacts				Ordinance
		separated and delivered to the local recyclers. An					(Cap. 132)
		adequate number of waste containers should be					
		provided to avoid spillage of waste.					
S6.6.25	S6	General refuse generated on-site should be stored in	Minimise	Contractors	All	Construction	• Waste
	S7	enclosed bins or skips and collected separately from	production		construction	stage	Disposal
		other construction and chemical wastes and disposed	of the		sites		Ordinance
		of at designated landfills by reputable waste collectors.	general				• Public
		The removal of waste from the site	refuse and				Health
		should be arranged on a daily basis or at least on every	avoid odour,				and Municipal
		second day by the contractor to minimise any	pest and				Services
		potential odour impacts, minimise the presence of	litter impacts				Ordinance
		pests, vermin and other scavengers and prevent					(Cap. 132)
		unsightly accumulation of waste.					
S6.6.26	S6	The general refuse and chemical waste generated	Minimise	Relevant	All	Operation	• Waste
	S7	during the operation phase would follow the same	production	Operators	construction	Stage	Disposal

EIA Repot Ref.	WMP Section	Mitigation Measures	Objectives of the Measures	Implementation Parties	Location	Implementation Timing	Requirements and/or Standard to be achieved
		handling procedures and disposal method presented	of the		sites		Ordinance
		in Sections 6.6.16 to 6.6.25 of the EIA report. It is	general				• Waste
		expected that there would be limited quantities of	refuse and				Disposal
		general refuse and chemical waste to be generated	avoid odour,				(Chemical
		from the operation of the Project and will be properly	pest and				Waste)
		handled by licensed chemical waste collectors and	litter impacts				(General)
		reputable waste collector. Waste monitoring and audit					Regulation
		programme for the operation phase of the Project					• Code of
		would not be required.					Practice on
							the Packaging,
							Labelling and
							Storage of
							Chemical
							Waste
							• Public
							Health
							and Municipal
							Services
							Ordinance
							(Cap. 132)



Monthly Summary Waste Flow Table for 2023

Contract No.: 21/WSD/21 Contract Title: Relocation of Diamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns

		Actual Quantities of Ine	rt C&D Materials Ge	enerated / Imported (i	in '000m3)			Actual Qua	ntities of C&D Wastes Ge	enerated		A	ctual Quantit	ies of C&D W	astes Recycl	ed
Month	Total Quantity	Broken Concrete (including rock for recycling into	Reused in the	Reused in other	Disposed as	Imported C&D		Paper/ cardboard	Plastics (bottles/containers,pla stic sheets/foam	Chemical	Others, e.g.		Paper/ cardboard			Others
	Generated (a+b+c+d)	aggregates) (a)	Contract (b)	Projects (c)	Public Fill (d)	Material	Metals (in '000kg)	packaging (in '000kg)	package material) (in '000kg)	Waste (in '000m ³)	refuse (in '000m ³)	Metals (in '000kg)	packaging (in '000kg)		Yard Waste (in '000m ³)	
Jan	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0000	0.00000	0.00000	0.00000	0.00000	0.0000	0.00000	0.00000	0.00000	0.00000
Feb	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0000	0.00000	0.00000	0.00000	0.00000	0.0000	0.00000	0.00000	0.00000	0.00000
Mar	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.0000	0.00000	0.00000	0.00000	0.00000	0.0000	0.00000	0.00000	0.00000	0.00000
Apr	0.05712	0.00000	0.00000	0.00000	0.05712	0.00000	0.0000	0.00000	0.00000	0.00000	0.20064	0.0000	0.00000	0.00000	0.00686	0.00000
May	0.00000															
Jun	0.00000															
Sub-total	0.05712	0.00000	0.00000	0.00000	0.05712	0.00000	0.0000	0.00000	0.00000	0.00000	0.20064	0.0000	0.00000	0.00000	0.00686	0.00000
Jul	0.00000															
Aug	0.00000															
Sep	0.00000															
Oct	0.00000															
Nov	0.00000															
Dec	0.00000															
Total	0.05712	0.00000	0.00000	0.00000	0.05712	0.00000	0.00000	0.00000	0.00000	0.00000	0.20064	0.00000	0.00000	0.00000	0.00686	0.00000

Note: 1. Assume the density of soil fill is 2 ton/m3.

2. Assume the density of rock and broken concrete is 2.5 ton/m3.

3. Assume the density of non-inert C&D waste is 0.9 ton/m³.



(i) Summary Table for Work Process or Activites requiring Timber for Temporary Works (Reporting Month)

Item No.	Description of Works Process or Activity [see note (a) below]	Justifications of Using Timber in Temporary Construction Works	Est. Quantities of Timber Used (m³)	Actual Quantities used (m³)	Remarks
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
		Total Estimated Quantity of Timber Hand			

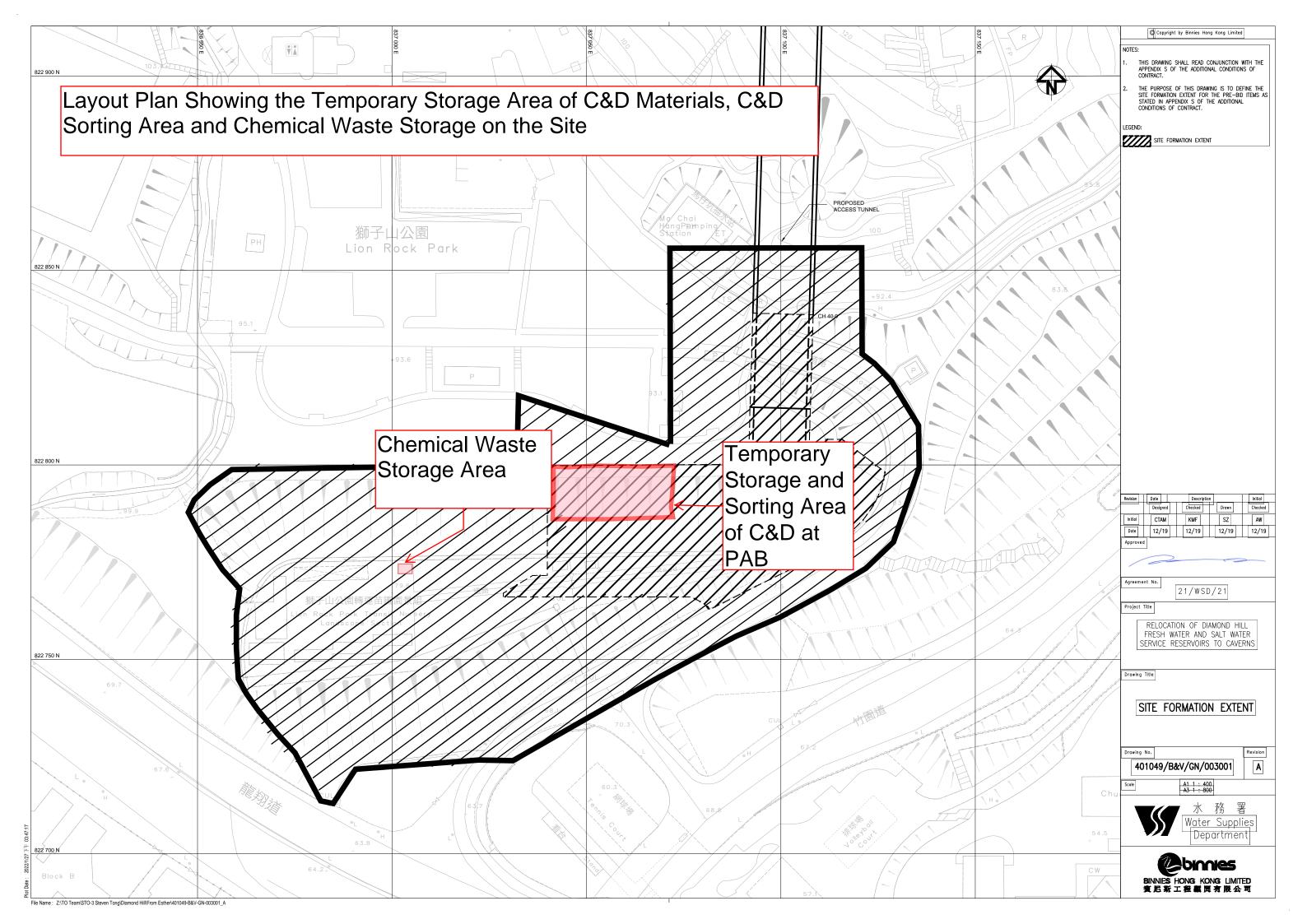
Total Estimated Quantity of Timber Used

0

Notes: (a) The Contractor shall list out all the work items requiring timber for use in temporary construction works. Several minor work items may be grouped into one for ease of updating.

(b) The summary table shall be submitted to the Supervisor monthly together with the Waste Flow Table for review with PS clause 25.24(11).

Contract No. 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Reservoirs to Caverns
Waste Management Plan
Appendix D – Layout Plan Showing the Temporary Storage Area of C&D Materials, C&D Sorting Area an
Chemical Waste Storage on the Site





7.0 Appendix A – First Programme

)alaastis s	Sigmond Hill Erook Mater and Calt Mater Couries Description to Occasion (DD-0/40/00) 04	Duration 1292	29-Nov-22	11-Apr-27		NDJ	FMA	MJJ	AS	OND	J F M	A M J	JASO	ND.	J F M A M	IJJA	SOND	J F M	AMJJJ	ASON	DJ
	iamond Hill Fresh Water and Salt Water Service Reservoirs to Caverns (DD:9/12/22) 01				0		1 1 1 1 1 1 1 1 1 1 1 1	I I I I I I I I I I I I I I						I I I I I I							
CD 1000	Contract Data (CD)	1595	29-Nov-22*	11-Apr-27	0	Con	tract Da	te (CD)						1 I 1 1 1 1 1 1							
CD-1000	Contract Date (CD) Starting date (CD) within 2 weeks from the CD)	0	29-Nov-22*		١	▲ Sta	rtina da	e (SD wit	ithin 2w	veeks fro	m the CI	7		1 1 1 1 1 1 1 1							
CD-1010	Starting date (SD, within 2weeks from the CD)	0	09-Dec-22*	11 000 07	0		ii tii ig da		,u iii i 2 vi					1 1 1 1 1 1 1 1							
Contract Completi		U	11-Apr-27	11-Apr-27	0									i i 							
KD-1000	Completion date for the whole of the works (1585d)	U	11 Apr 97	11-Apr-27*	0																
Anticipated Comp		0	11-Apr-27	11-Apr-27	0																
KD-2100	Planned Completion date for the whole of the works (1585d)	000	00 000	11-Apr-27	4045		ho	Mar-23. /	Acces	e Date											
Access Date		90	09-Dec-22	09-Mar-23	1315	◆ Por		10101 20,7	10000												
AD-1040	Portion 5	0	09-Dec-22		4.5			rtion 1 (90	nd afte	r SDY											
AD-1000	Portion 1 (90d after SD)	0	09-Mar-23		15			rtion 2 (90													
AD-1010	Portion 2 (90d after SD)	0	09-Mar-23		1315									1 1 1 1 1 1 1 1					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
AD-1020	Portion 3 (90d after SD)	0	09-Mar-23		3			rtion 3 (90	1 1 1	1 1											
AD-1030	Portion 4 (90d after SD)	0	09-Mar-23		43		→ P0	rtion 4 (90				-		 							
ub-letting / Pro		330	29-Nov-22	24-Oct-23	1265								Procurem	ent 							
Vorks Sub-letting		330	29-Nov-22	24-Oct-23	1265							orks Sub		1 1 1 1 1 1 1 1							
S-240	Subletting for Condition Survey, CCTV Inspection Survey	90	29-Nov-22	26-Feb-23	65							vinspec	ion Survey	/ i							
S-290	Subletting for MIC Fabrication	110	29-Nov-22	18-Mar-23	1485			ubletting fo													
S-200A	Subletting for Consultants incl. designer, ICE, Traffic consultant	90	29-Nov-22	26-Feb-23	0								Fraffic cons	1 1							
S-100	Pre-bid for Designer for Temporary Works for Site Formation (assume approval by PM with 28d)	28	29-Nov-22	26-Dec-22			1 I I I I I						ormation (a	assume	approval by	y PIM with	28d)				
S-110	Pre-bid for Designer for Alternative Design	28	29-Nov-22	26-Dec-22	1417		1 1 1 1 1 1		1 1 1			1 1 1							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
S-120	Pre-bid for Temporary Works for Site Formation	28	29-Nov-22	26-Dec-22	1567	P	re-bid fo	r Tempora	rary Wo	orks for S	Site Form	ation		1 1 1 1 1 1 1 1							
S-220	Subletting for Site Investigation Works incl. Borehole, Trial Trench, Manhole Survey	90	29-Dec-22	28-Mar-23	315			ubletting	for Site	e Investig	ation Wo	orks incl. I	3orehole,	Trial Tre	nch, Manho	ole Survey					1 1 1 1 1 1 1
S-260	Subletting for Pipe Installation Works by Pipe Jacking	90	27-Feb-23	27-May-23	141			Suble	letting f	for Pipe II	nstallatio	n Works	oy Pipe Jac	cking							
S-280	Subletting for Foundation Works	120	27-Jun-23	24-Oct-23	1265					Suble	etting for I	Foundatio	on Works								
ontractor's Des	sign	612	27-Dec-22	29-Aug-24	955			 - - - - - - 		- =			29-A	ug-24,	Contractor's	s Design	;				
-1000	Design submission and Approval for Cut and Cover Tunnel (Alternative)	120	27-Dec-22	25-Apr-23	1447			Design	submis	ssion and	d Approv	al for Cut	and Cove	r Tunne	el (Alternative	е)					
-1010	Design submission and Approval for Tunnel Alignment and Cavern Layout (Alternative)	60	27-Dec-22	24-Feb-23	1507		Des	ign submi	nission	and Appi	roval for	TunnelAl	ignment ar	nd Cav	em Layout (Altemativ	e)				
-1020	Design submission and Approval for Lining for Tunnel and Caverns (Alternative)	150	27-Dec-22	25-May-23	1417			Desig	gn sub	mission	and Appr	roval for L	ining for T	unnela	nd Caverns	(Alternat	ve)				
-1030	Design submission and Approval for Lining for Portal Foundation (Alternative)	150	27-Dec-22	25-May-23	1417			Desig	ign sub	mission	and Appr	roval for L	ining for P	ortal Fo	undation (Al	lternative)					
-1100	Design submission and Approval for Cathodic Protection of Watermains	30	28-Jan-23	26-Feb-23	65		De:	ign subm	nission	and App	roval for	Cathodic	Protection	of Wat	ermains						
-1080	Design submission and Approval for Permanent Sleeve Pipe for Trenchless Works	90	27-Feb-23	27-May-23	141			D esi	ign sub	mission	and Appl	roval for F	Permanent	Sleeve	Pipe for Tre	enchless	W orks				
-1090	Design submission and Approval for Advance Treatment Works at Ma Chai Hang FWSR	90	09-Mar-23	06-Jun-23	1225			Des	sign su	bmission	and App	oroval for	Advance T	reatme	ent Works at	Ma Chai	Hang FVVSI	R			
-1070	Design submission and Approval for Tunnel Internal Civil Structure	90	24-Dec-23	22-Mar-24	437							Design s	ubmission	and Ap	proval for Tu	unnel Inte	mal Civil Str	ucture			
-1060	Design submission and Approval for Overhead Ventilation Ducts	90	23-Jan-24	21-Apr-24	905							Desig	n submissio	on and	Approval for	Overhea	d Ventilation	n Ducts			
-1050	Design submission and Approval for Architectual Works	90	27-Feb-24	26-May-24	930	<u> </u> <u> </u> <u> </u>						De	sign subm	ission a	nd Approva	l for Archi	tectual V/ ork	(S		- - - -	
-1040	Design submission and Approval for E&M systems incl. ventilation, lighting, electrical, FS for Tunnel	150	02-Apr-24	29-Aug-24	955								Desi	ign sub	mission and	Approva	for E&M sy	stems in d	l. ventilation	, lighting, el	ectrica
or Reprovision o	f Structures	168	27-Feb-23	13-Aug-23	1337				13-	Aug-23,	For Repr	rovision o	f Structure:	s							
)-S1000	Design Works for Reprovision of Structures (AIP)	28	27-Feb-23	26-Mar-23	1337			esign Wo	orks fo	r Reprov	ision of S	Structures	(AIP)								
)-S1010	ICE Checking - AIP	21	27-Mar-23	16-Apr-23	1337			ICE Che	ecking -	-AIP											
D-S1020	Submission of Contractor Design (AIP) for PM's review	28	17-Apr-23	14-May-23	1337	-		Subm	nission	of Contra	actor Des	sign (AIP)	for PM's re	eview							-
D-S1030	Seeking Approval from PM	7	15-May-23	21-May-23	1337			g Seeki	king Ap	proval fro	m PM			I I I I I I I I							
D-S1040	Design Works for Reprovision of Structures (DDA)	28	22-May-23	18-Jun-23	1337			📥 De	esign V	Vorks for	Reprovi	sion of \$t	ructures (C	DA)					1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
D-S1080	Submission and Approval for Foundation Design	21	22-May-23	11-Jun-23	1400		1	_ Suk	bmissid	on and A	pprovalf	or Found	ation Desig	gn¦ ¦							
		7 37 - 505 - 505	■ 0 000 1000 1000 1000 1000 1000 1000 1			1 1 1	1 1		<u>D</u> -	ote		1 1 1	1 1 1 1	 D'	vision	t 1 t			Chackad	Λ-	Doco.
Actual W				1 of 15				12	Da -Dec		Firet [Progran	nme	Πt	VISIUIT				Checked	<u> </u>	pprov
Remaini	ng Work Remaining Work										Ji mati	rograi									

ID	Activity Name	Onginal Duration	Start	Finish	Total Float N	2023 2026 2026 IDJFMAMJJJASONDJFMAMJJJASONDJFMAMJJJASONDJFMAMJJJASONDJFMAMJJJASONDJ
D-S1050	ICE Checking - DDR	21	19-Jun-23	09-Jul-23	1337	DISTRIBUTION STATES OF THE STA
D-S1060	Submission of Contractor Design (DDR) for PM's review	28	10-Jul-23	06-Aug-23	1337	Submission of Contractor Design (DDR) for PM's review
D-S1070	Seeking Approval from PM with comment revised	7	07-Aug-23	13-Aug-23	1337	☐ Seeking Approval from PIVI with comment revised
te Works		1283	09-Dec-22	11-Apr-27	0	
Relocation of Trans	sit Nursey	202	09-Dec-22	28-Jun-23	1383	28-Jun-23, Relocation of Transit Nursey
SW-RTN-1010	Liase with LCSD for facilities relocation arrangement	60	09-Dec-22	06-Feb-23	73	Liase with LCSD for facilities relocation arrangement
THE STATE OF THE S	Hoarding erection and Site setup in Portion 4	10	09-Mar-23	18-Mar-23	43	☐ Hoarding erection and Site setup in Portion 4
SW-RTN-1020	Access to Portion 4	n	09-Mar-23	10 1110110	43	◆ Access to Portion 4
	Civil construction works, e.g. water supply, in Portion 4	45	19-Mar-23	02-May-23	43	Civil construction works, e.g. water supply, in Portion 4
	Relocation of Transit Nursery and other LCSD's faciltiies to Portion 4	40	11-May-23	19-Jun-23	35	Relocation of Transit Nursery and other LCSD's faciltiies to Portion 4
SW-RTN-1060	Test and Commissioning of water supply and LCSD's facilities	3	20-Jun-23	22-Jun-23	1383	Test and Commissioning of water supply and LCSD's facilities
EXPERIENCE VIX INCOMENDATION NOTICE PROPERTY AND PROPERTY		6		28-Jun-23	1383	■ Handover Portion 4 to LCSD for its management
	Handover Portion 4 to LCSD for its management	000	23-Jun-23	100-400500 10000000000000-400500	1303	
	sh Water Service Reservoir (MCHFWSR)	360	09-Dec-22	03-Dec-23	1225	Liase with WSD for works arrangement in MCHFWSR
SW-P2-1000	Liase with WSD for works arrangement in MCHFWSR	90	09-Dec-22	08-Mar-23	1225	
W-P2-1010	Access to Portion 2	0	09-Mar-23	compression to the control of the co	1315	◆ Access to Portion 2
SW-P2-1020	Ground treatment works in Portion 2	180	07-Jun-23	03-Dec-23	1225	Ground treatment works in Portion 2
ortal Ancillary Build	ding	1245	28-Jan-23	11-Apr-27	0	
reparation Works	s & Site Clearance	174	28-Jan-23	20-Jul-23	241	20-Jul-23, Preparation Works & Site Clearance
SW-PAB1000	XP and TTAApplication	75	28-Jan-23	12-Apr-23	0	XP and TTAApplication
SW-PAB1020	Tree Survey at Portion 3	42	09-Mar-23	19-Apr-23	3	Tree Survey at Portion 3
SW-PAB1010	Access to Portion 3	0	09-Mar-23		3	◆ Access to Portion 3
SW-PAB1030	Hoarding Erection and Site Setup	10	13-Apr-23	22-Apr-23	0	■ Hoarding Erection and Site Setup
SW-PAB1040	Tree Treatment and Site Clearance	49	23-Apr-23	10-Jun-23	0	Tree Treatment and Site Clearance
SW-PAB1050	Survey, Trial pit, UU detection, Condition survey	40	11-Jun-23	20-Jul-23	241	Survey, Trial pit, UU detection, Condition survey
Foundation, Sub-S	Structure and Retaining Structure	579	07-Jun-23	20-May-25	245	20-May-25, Foundation, Sub-Structure and Retaining Str
Northern Side of PA	AB (RHS) (Zone 2)	356	07-Jun-23	15-Aug-24	468	15-Aug-24, Northern Side of PAB (RHS) (Zone 2)
SW-PAB-2110	Implement TTA to shift Lion Rock Road traffic westward to provide sufficent space for pipe pile installation	2	07-Jun-23	08-Jun-23	292	I Implement TTA to shift Lion Rock Road traffic westward to provide sufficent space for pipe pile installation
SW-PAB-2120	Removal of road pavement and site clearance, surveying, UU detection, diversion (if any)	20	09-Jun-23	28-Jun-23	359	Removal of road pavement and site clearance, surveying, UU detection, diversion (if any)
SW-PAB-2000	Construction of Concrete Block Wall and Forma Working Platform at +85mPD (7d+3d) (start after 8no pipe pile by 1r	10	20-Jun-23	03-Jul-23	28	Construction of Concrete Block Wall and Form a Working Platform at +85mPD (7d+3d) (start after 8no pipe pile by 1rig)
SW-PAB-2010	Soil Excavation for Southern Ramp (Total: 2689m3) (PR=180m3/d)	15	20-Jun-23	08-Jul-23	284	□ Soil Excavation for Southern Ramp (Total: 2689m3) (PR=180m3/d)
	linstallation of Pipe Plile (273dia) along Lion Rock Road (Total: 53no.) (PR=1d/pile/rig) (2rigs) plus 1 wk for grouting	33	10-Jul-23	16-Aug-23	284	linstallation of Pipe Plile (273dia) along Lion Rock Road (Total: 53no.) (PR=1d/pile/rig) (2rigs) plus 1 wk for grouting
x0		5	24-Jul-23	28-Jul-23	11	I Installation of King Post (Total: 3no) (PR=2.5d/pile/rig) (2 rigs)
	Installation of Pipe Pile at RHS of Portal (Total: 15no) (PR=2.5d/pile/rig) (2 rigs) + 3d remobilization	22	29-Jul-23	23-Aug-23	11	Installation of Pipe Pile at RHS of Portal (Total: 15no) (PR=2.5d/pile/rig) (2 rigs) + 3d remobilization
	Erection of Steel Platform for Bored Pile Construction	22	24-Aug-23	18-Sep-23	278	Erection of Steel Platform for Bored Pile Construction
		88	24-Aug-23 27-Dec-23	15-Sep-23 15-Apr-24	198	Plant mobilization and Installation of Bored Pile on Steel Platform (Total: 4no) (PR=22d/pile/rig) (
	Plant mobilization and installation of Bored Pile on Steel Platform Plant Demobilization and Removal of Steel Platform	7		23-Apr-24	472	Plant Demobilization and Removal of Steel Platform
		10	16-Apr-24			Soil Excavation to Formation Level and ELS Installation (Total: 2217m3) (PR=200m3/d) +8d
		19	24-Apr-24	17-May-24	472 577	Pile Test @ Grid BB-EE (Total: 4no.)
	Pile Test @ Grid BB-EE (Total: 4no.)	30	18-May-24	16-Jun-24	577	Construction of Retainig Wall RW3 and Backfill work
	Construction of Retainig Wall RW3 and Backfill work	90	18-May-24	15-Aug-24	5//	
SW-PAB-2090	Trim Pile Head, Construction of Pile Cap @ Grid BB-EE, 3m thk	60	17-Jun-24	15-Aug-24	577	Trim Pile Head, Construction of Pile Cap @ Grid BB-EE, 3m thk
Northern Side of PA		570	17-Jun-23	20-May-25	200	20-May-25, Northern Side of PAB (LHS) (Zone 1)
	Installation of mini-pile for support steel platform (Total: 22no) (PR=1.5d/pile/rig) (1rigs)	33	17-Jun-23	27-Jul-23	375	Installation of mini-pile for support steel platform (Total: 22no) (PR=1.5d/pile/rig) (1rigs)
SW-PAB-3010	Construction of RC footing on mini-pile	24	14-Jul-23	10-Aug-23	375	□ Construction of RC footing on mini-pile
SW-PAB-3020	Installation of Sheet Pile (Total: 10m, 240m2) (PR=40m2/d/piler) (1 piler)	6	21-Jul-23	27-Jul-23	198	Installation of Sheet Pile (Total: 10m, 240m2) (PR=40m2/d/piler) (1 piler)
Actual Wo	ork Summary			2 of 15		Date Revision Checked Approv
Remaining				_ 01 10		12-Dec-22 First Programme
	maining Work					

SW-PAB-3030 Soil Excavation SW-PAB-3050 Soil Excavation SW-PAB-3100 Installation of F SW-PAB-3060 Erection of Ste SW-PAB-3070 Installation of E SW-PAB-3070a Pile Test @ Gr SW-PAB-3080 Removal of Str SW-PAB-3110 Soil Excavation SW-PAB-3130 TrimPile Head Southern Side of PAB SW-PAB-4000 Installation of E SW-PAB-4000 Installation of E SW-PAB-4030 Pile Test @ Gr SW-PAB-4030 Pile Test @ Gr SW-PAB-4040 Removal of Pla SW-PAB-4050 Construction of SW-PAB-4060 Installation of E SW-PAB-4070 Pile Test @ Gr tructure Works Suilding Structure - Grid No. U - BB SW-PAB-S3000 Commenceme SW-PAB-S3000 RC Column ar SW-PAB-S3010 RC Column ar SW-PAB-S3030 RC Beam & FI SW-PAB-S3040 RC Column ar SW-PAB-S3050 RC Column ar SW-PAB-S3050 RC Column ar SW-PAB-S3060 RC Column ar SW-PAB-S3060 RC Column ar SW-PAB-S3070 Roof Canopy of SW-PAB-S3080 RC Stairs SW-PAB-S3090 Waterproofing	Steel Platform ion to Formation Level and ELS Installation (Total: 5000m3) (PR=300m3/d) + 8d ELS ad, Construction of Pile Cap @ Grid U-BB, 3m thk from FL 77.83mPD if Sheet Pile (Total: 60m, 720m2) (PR=40m2/d/piler) if Concrete Block Wall and Forma Working Platform at +84mPD (26d + 6d) if Bored Pile on Workingl Platform (Total: 3no) (PR=22d/pile/rig) (1 rigs) Grid U-BB (Total: 3no.) Platform and Concrete Block if Retaining Wall RW1 and RW2 by Open Cut Method if Bored Pile on ground at FEL (Total: 3no) (PR=22d/pile/rig) (1 rigs) Grid U-BB (Total: 3no.) Grid U-BB (Total: 3no.)	9 6 23 24 24 154 66 12 25 90 499 18 32 66 50 21 90 66 50 21 90 66 50	28-Jul-23 28-Jul-23 29-Aug-23 29-Aug-23 25-Sep-23 16-Apr-24 17-Sep-24 22-Nov-24 06-Dec-24 20-Feb-25 08-Aug-23 08-Aug-23 07-Oct-23 11-Dec-23 30-Jan-24 25-Feb-24 14-Dec-24 20-Feb-25 04-Aug-23 04-Aug-23	07-Aug-23 03-Aug-23 23-Sep-23 25-Sep-23 25-Oct-23 19-Oct-24 21-Nov-24 05-Dec-24 07-Jan-25 20-May-25 28-Aug-23 06-Oct-23 23-Dec-23 23-Dec-23 29-Jan-24 24-Feb-24 24-May-24 07-Mar-25 10-Apr-25 10-Apr-25	198 198 248 198 243 241 198	n Soil Exca □ Soil □ Inst		ost Installation Stage 1 (Total: 270 Total: 42m, 930m2) d Pile Construction Installation of Bore Pile Test @ Grid Removal of St Soil Excava 10 Om2) (PR=40m2/d, I and Form a Worki Vorking Platform (Total: 3no.) Ind Concrete Block of Retaining Wall Re	00m3) (PR=180) (PR=40m2/d/p d Pile on Steel F d U-BB (Total: 7r teel Platform ation to Formatio J Trim Pile Head 0-Apr-25, Southe l/piler) ing Platform at + Total: 3no) (PR=	piler) (1 piler) Platform (Total: 7no) (PR no.) on Level and ELS Installa d, Construction of Pile C nem Side of PAB +84mPD (26d + 6d)	ation (Total: 5000m3
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SW-PAB-3060 Erection of Stee SW-PAB-3070 Installation of E SW-PAB-3070a Pile Test @ Gr SW-PAB-3080 Removal of Stee SW-PAB-3110 Soil Excavation SW-PAB-3130 Trim Pile Head outhern Side of PAB SW-PAB-4000 Installation of E SW-PAB-4000 Installation of E SW-PAB-4010 Construction of SW-PAB-4030 Pile Test @ Gr SW-PAB-4040 Removal of Pla SW-PAB-4050 Construction of SW-PAB-4060 Installation of E SW-PAB-4060 Installation of E SW-PAB-4070 Pile Test @ Gr ructure Works uilding Structure - Grid No, U - BB SW-PAB-S3000 Commenceme SW-PAB-S3010 Column, Beam SW-PAB-S3020 RC Column ar SW-PAB-S3030 RC Column ar SW-PAB-S3040 RC Column ar SW-PAB-S3050 RC Beam & Fl SW-PAB-S3050 RC Beam & Fl SW-PAB-S3060 RC Column ar SW-PAB-S3070 RO Column ar SW-PAB-S3080 RC Stairs SW-PAB-S3090 Waterproofing uilding Structure - Grid No, BB - EE SW-PAB-S4000 Column, Beam	Steel Platform for Bored Pile Construction if Bored Pile on Steel Platform (Total: 7no) (PR=22d/pile/rig) (1 rigs) Grid U-BB (Total: 7no.) Steel Platform ion to Formation Level and ELS Installation (Total: 5000m3) (PR=300m3/d) + 8d ELS ad, Construction of Pile Cap @ Grid U-BB, 3m thk fromFL 77.83mPD if Sheet Pile (Total: 60m, 720m2) (PR=40m2/d/piler) in of Concrete Block Wall and Forma Working Platform at +84mPD (26d + 6d) if Bored Pile on Workingl Platform (Total: 3no) (PR=22d/pile/rig) (1 rigs) Grid U-BB (Total: 3no.) Platform and Concrete Block in of Retaining Wall RW1 and RW2 by Open Cut Method if Bored Pile on ground at FEL (Total: 3no) (PR=22d/pile/rig) (1 rigs) Grid U-BB (Total: 3no.) Grid U-BB (Total: 3no.)	66 12 25 90 499 18 32 66 50 21 90 66 50 986	25-Sep-23 16-Apr-24 17-Sep-24 22-Nov-24 06-Dec-24 20-Feb-25 08-Aug-23 08-Aug-23 07-Oct-23 11-Dec-23 30-Jan-24 25-Feb-24 14-Dec-24 20-Feb-25 04-Aug-23	25-Oct-23 19-Oct-24 21-Nov-24 05-Dec-24 07-Jan-25 20-May-25 10-Apr-25 28-Aug-23 06-Oct-23 23-Dec-23 23-Dec-23 29-Jan-24 24-Feb-24 24-Feb-24 24-Nay-24 07-Mar-25 10-Apr-25 10-Apr-25	337 198 248 198 198 243 241 198 198 198 618 501	Installa	ation of Sheet Pile (Total, 60m, 72 onstruction of Concrete Block Wal Installation of Bored Pile on \ Pile Test @ Grid U-BB (T	d Pile Construction Installation of Bore Pile Test @ Grid Removal of St Soil Excava 10 0m2) (PR=40m2/d. I and Form a Worki Vorking! Platform (Total: 3no.) Ind Concrete Block of Retaining Wall Resort	d Pile on Steel F d U-BB (Total: 7r teel Platform ation to Formatio Trim Pile Head 0-Apr-25, Southo I/piler) ing Platform at + Total: 3no) (PR=	Platform (Total: 7no) (PR no.) on Level and ELS Installand, Construction of Pile Chem Side of PAB +84mPD (26d + 6d)	ation (Total: 5000m3
SW-PAB-3070 Installation of ESW-PAB-3070a Pile Test @ Gr SW-PAB-3080 Removal of Str SW-PAB-3110 Soil Excavation SW-PAB-3130 Trim Pile Head outhern Side of PAB SW-PAB-4000 Installation of Str SW-PAB-4010 Construction of Str SW-PAB-4020 Installation of ESW-PAB-4030 Pile Test @ Gr SW-PAB-4040 Removal of Plate Str SW-PAB-4050 Construction of Str SW-PAB-4060 Installation of ESW-PAB-4060 Installation of ESW-PAB-4070 Pile Test @ Gr SW-PAB-3000 Commencement of Str SW-PAB-S2000 Installation of Tructure Works suilding Structure - Grid No. U - BB SW-PAB-S3000 Commencement of Str SW-PAB-S3000 Column, Beam SW-PAB-S3010 Column are SW-PAB-S3030 RC Beam & Fl SW-PAB-S3030 RC Column are SW-PAB-S3040 RC Column are SW-PAB-S3050 RC Col	f Bored Pile on Steel Platform (Total: 7no.) (PR=22d/pile/rig) (1 rigs) Grid U-BB (Total: 7no.) Steel Platform ion to Formation Level and ELS Installation (Total: 5000m3) (PR=300m3/d) + 8d ELS ad, Construction of Pile Cap @ Grid U-BB, 3m thk from FL 77.83mPD if Sheet Pile (Total: 60m, 720m2) (PR=40m2/d/piler) if Concrete Block Wall and Forma Working Platform at +84mPD (26d + 6d) if Bored Pile on Workingl Platform (Total: 3no) (PR=22d/pile/rig) (1 rigs) Grid U-BB (Total: 3no.) Platform and Concrete Block if Retaining Wall RW1 and RW2 by Open Cut Method if Bored Pile on ground at FEL (Total: 3no) (PR=22d/pile/rig) (1 rigs) Grid U-BB (Total: 3no.) Grid U-BB (Total: 3no.)	66 12 25 90 499 18 32 66 50 21 90 66 50 986	16-Apr-24 17-Sep-24 22-Nov-24 06-Dec-24 20-Feb-25 08-Aug-23 08-Aug-23 07-Oct-23 11-Dec-23 30-Jan-24 25-Feb-24 14-Dec-24 20-Feb-25 04-Aug-23	19-Oct-24 21-Nov-24 05-Dec-24 07-Jan-25 20-May-25 28-Aug-23 06-Oct-23 23-Dec-23 29-Jan-24 24-Feb-24 24-May-24 07-Mar-25 10-Apr-25 10-Apr-25	198 248 198 198 243 241 198 198 198 198 618 501	□ Installa	ation of Sheet Pile (Total: 60m, 72 onstruction of Concrete Block Wal Installation of Bored Pile on N Pile Test @ Grid U-BB (T	Installation of Bore Pile Test @ Grid Removal of St Soil Excava 10 0m2) (PR=40m2/d. I and Form a Worki Working! Platform (Total: 3no.) Ind Concrete Block of Retaining Wall Resort	ed Pile on Steel F d U-BB (Total: 7r teel Platform ation to Formation Trim Pile Head D-Apr-25, Southo I/piler) ting Platform at + Total: 3no) (PR=	no.) on Level and ELS Installand, Construction of Pile Conem Side of PAB +84mPD (26d + 6d)	ation (Total: 5000m3
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SW-PAB-4010 Construction of SW-PAB-4020 Installation of ESW-PAB-4030 Pile Test @ Gr SW-PAB-4040 Removal of Platest PAB-4050 Construction of SW-PAB-4060 Installation of ESW-PAB-4070 Pile Test @ Gr Tructure Works wilding Structure - Grid No. U - BB SW-PAB-S3000 Commencement SW-PAB-S3010 Column, Beam SW-PAB-S3020 RC Column are SW-PAB-S3030 RC Beam & Fl SW-PAB-S3040 RC Column are SW-PAB-S3050 RC Stairs SW-PAB-S3050 RO Column, Beam wilding Structure - Grid No. BB - EE SW-PAB-S4000 Column, Beam	of Concrete Block Wall and Forma Working Platform at +84mPD (26d + 6d) f Bored Pile on Workingl Platform (Total: 3no) (PR=22d/pile/rig) (1 rigs) Grid U-BB (Total: 3no.) Platform and Concrete Block of Retaining Wall RW1 and RW2 by Open Cut Method f Bored Pile on ground at FEL (Total: 3no) (PR=22d/pile/rig) (1 rigs) Grid U-BB (Total: 3no.) f Tower Crane ment of Building Structure	66 50 21 90 66 50 986	29-Aug-23 07-Oct-23 11-Dec-23 30-Jan-24 25-Feb-24 14-Dec-24 20-Feb-25 04-Aug-23	06-Oct-23 23-Dec-23 29-Jan-24 24-Feb-24 24-May-24 07-Mar-25 10-Apr-25 26-Nov-26	198 198 618 501		onstruction of Concrete Block Wal Installation of Bored Pile on \ Pile Test @ Grid U-BB (T	l and Form a Worki Working Platform (otal: 3no.) nd Concrete Block of Retaining Wall R	ing Platform at + Total: 3no) (PR=		
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SW-PAB-4050 Installation of ESW-PAB-4060 Pile Test @ Grand Gracture Works uilding Structure - Grid No. U - BB SW-PAB-S2000 Installation of Tomericement SW-PAB-S3000 Commencement SW-PAB-S3010 Column, Beam SW-PAB-S3020 RC Column are SW-PAB-S3030 RC Beam & Fl SW-PAB-S3040 RC Column are SW-PAB-S3050 RC Beam & Fl SW-PAB-S3060 RC Column are SW-PAB-S3060 RC Column are SW-PAB-S3080 RC Stairs SW-PAB-S3090 Waterproofing uilding Structure - Grid No. BB - EE SW-PAB-S4000 Column, Beam	of Retaining Wall RW1 and RW2 by Open Cut Method f Bored Pile on ground at FEL (Total: 3no) (PR=22d/pile/rig) (1 rigs) Grid U-BB (Total: 3no.) f Tower Crane ment of Building Structure	66 50 986	25-Feb-24 14-Dec-24 20-Feb-25 04-Aug-23 04-Aug-23	07-Mar-25 10-Apr-25 26-Nov-26			Construction				
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Pile Test @ Growth of the Test	Grid U-BB (Total: 3no.) f Tower Crane ment of Building Structure	986	04-Aug-23 04-Aug-23	26-Nov-26	243			Instal	llation of Bored F	Pile on ground at FEL (T	otal: 3no) (PR=22d/
ructure Works swilding Structure - Grid No. U - BB SW-PAB-S2000 Installation of The Commencement of Sw-PAB-S3010 Commencement of The Column, Beam RC Column are RC Beam & Flow-PAB-S3030 RC Column are RC Beam & Flow-PAB-S3050 RC Beam & Flow-PAB-S3050 RC Column are RC Sw-PAB-S3060 RC Column are RC Sw-PAB-S3070 Roof Canopy of Sw-PAB-S3090 Waterproofing wilding Structure - Grid No. BB - EE Sw-PAB-S4000 Column, Beam	f Tower Crane nent of Building Structure		04-Aug-23		0			Pil	ile Test @ Grid U	U-BB (Total: 3no.)	
SVV-PAB-S2000 Installation of TSVV-PAB-S3000 Commencement SVV-PAB-S3010 Column, Bear RC Column are SVV-PAB-S3030 RC Bearn & Fl RC Column are SVV-PAB-S3040 RC Column are SVV-PAB-S3050 RC Bearn & Fl RC Column are SVV-PAB-S3060 RC Column are SVV-PAB-S3080 RC Stairs ROM-PAB-S3070 Roof Canopy of SVV-PAB-S3090 Waterproofing SVV-PAB-S3090 Column, Bear RC SVV-PAB-S4000 Co	f Tower Crane ment of Building Structure	727 5		13-Jan-26							26-N
SW-PAB-S3000 Commencements SW-PAB-S3010 Column, Beam SW-PAB-S3020 RC Column ar SW-PAB-S3030 RC Beam & Fl SW-PAB-S3040 RC Column ar SW-PAB-S3050 RC Beam & Fl SW-PAB-S3060 RC Column ar SW-PAB-S3060 RC Column ar SW-PAB-S3080 RC Stairs SW-PAB-S3070 Roof Canopy of SW-PAB-S3090 Waterproofing uilding Structure - Grid No. BB - EE SW-PAB-S4000 Column, Beam	ment of Building Structure	5	04-Aug-23		259					13-Jan-26, Buil	lding Structure - Gric
SW-PAB-S3010 Column, Beam SW-PAB-S3020 RC Column ar SW-PAB-S3030 RC Beam & Fl SW-PAB-S3040 RC Column ar SW-PAB-S3050 RC Beam & Fl SW-PAB-S3060 RC Column ar SW-PAB-S3080 RC Stairs SW-PAB-S3070 Roof Canopy of SW-PAB-S3090 Waterproofing wilding Structure - Grid No. BB - EE SW-PAB-S4000 Column, Beam		n		09-Aug-23	353] Installati	ion of Tower Crane				
SW-PAB-S3010 Column, Beam SW-PAB-S3020 RC Column are SW-PAB-S3030 RC Beam & Fl SW-PAB-S3050 RC Beam & Fl SW-PAB-S3060 RC Column are SW-PAB-S3060 RC Column are SW-PAB-S3080 RC Stairs SW-PAB-S3070 Roof Canopy of SW-PAB-S3090 Waterproofing uilding Structure - Grid No. BB - EE SW-PAB-S4000 Column, Beam		U	21-May-25		243		·		Commenceme	ent of Building Structure	
SW-PAB-S3020 RC Column are SW-PAB-S3030 RC Beam & Fl RC Column are SW-PAB-S3050 RC Beam & Fl RC Column are SW-PAB-S3060 RC Column are SW-PAB-S3080 RC Stairs SW-PAB-S3070 Roof Canopy Rower SW-PAB-S3090 Waterproofing SW-PAB-S3090 Column, Beam	The state of the s	35	21-May-25	24-Jun-25	243				Column, B	Beam & Floor Slab @ Gro	ound Floor +78mPC
SW-PAB-S3030 RC Beam & Fl SW-PAB-S3040 RC Column ar SW-PAB-S3050 RC Beam & Fl SW-PAB-S3060 RC Column ar SW-PAB-S3080 RC Stairs SW-PAB-S3070 Roof Canopy of SW-PAB-S3090 Waterproofing uilding Structure - Grid No. BB - EE SW-PAB-S4000 Column, Beam	and RC Wall @ above Ground Floor	26	25-Jun-25	20-Jul-25	243				RC Colu	umn and RC Wall @ abo	ve Ground Floor
SW-PAB-S3040 RC Column are SW-PAB-S3050 RC Beam & Flore RC Column are SW-PAB-S3060 RC Column are SW-PAB-S3080 RC Stairs SW-PAB-S3070 Roof Canopy of SW-PAB-S3090 Waterproofing Suilding Structure - Grid No. BB - EE SW-PAB-S4000 Column, Beam	Floor Slab @ First Floor +84.25mPD incl. scaffold erection	35	21-Jul-25	24-Aug-25	243				RC B	Beam & Floor Slab @ Fin	st Floor +84.25mPC
SW-PAB-S3050 RC Beam & Fl SW-PAB-S3060 RC Column ar SW-PAB-S3080 RC Stairs SW-PAB-S3070 Roof Canopy of SW-PAB-S3090 Waterproofing Suilding Structure - Grid No. BB - EE SW-PAB-S4000 Column, Beam		26	25-Aug-25	19-Sep-25	243				□ RC	C Column and RC Wall (@ above First Floor
SVV-PAB-S3060 RC Column are SVV-PAB-S3080 RC Stairs SVV-PAB-S3070 Roof Canopy of SVV-PAB-S3090 Waterproofing Structure - Grid No. BB - EE SVV-PAB-S4000 Column, Beam	Floor Slab @ Roof +91.5mPD incl. scaffold erection	35	20-Sep-25	24-Oct-25	243		·			RC Beam & Floor Slab	@ Roof +91.5mPD
SW-PAB-S3080 RC Stairs SW-PAB-S3070 Roof Canopy SW-PAB-S3090 Waterproofing Suilding Structure - Grid No. BB - EE SW-PAB-S4000 Column, Bean		14	25-Oct-25	07-Nov-25	317					RC Column and RC V	Vall @ above Roof
SW-PAB-S3070 Roof Canopy of SW-PAB-S3090 Waterproofing uilding Structure - Grid No. BB - EE SW-PAB-S4000 Column, Beam		21	25-Oct-25	14-Nov-25	377					RC Stairs	
SW-PAB-S3090 Waterproofing suilding Structure - Grid No. BB - EE SW-PAB-S4000 Column, Bean	v @ +95 8mPD_incl_scaffold_erection	21	08-Nov-25	28-Nov-25	317					Roof Canopy @ +9	5.8mPD incl. scaffc
SW-PAB-S4000 Column, Bean		18	27-Dec-25	13-Jan-26	317					■ Waterproofing	works on roof
SW-PAB-S4000 Column, Bean		256	16-Mar-26	26-Nov-26	0						26-N
	am & Floor Slab @ Ground Floor +78mPD (from Pile Cap @ +75mPD) incl. scaffold erection	35	16-Mar-26	19-Apr-26	0					Colum	nn, Beam & Floor Sla
		26	20-Apr-26	15-May-26							Column and RC Wa
SW-PAB-S4020 RC Beam & FI	Floor Slab @ First Floor +84.25mPD incl. scaffold erection	35	16-May-26	19-Jun-26							RC Beam & Floor Sl
	and RC Wall @ above First Floor	26	20-Jun-26	15-Jul-26	0						RC Column and F
	Floor Slab @ Roof +91.5mPD incl. scaffold erection	35	16-Jul-26	19-Aug-26	<u> </u>						RC Beam & Fl
SW-PAB-S4050 RC Column ar	· 	14	20-Aug-26	02-Sep-26							RC Column a
SW-PAB-S4070 RC Stairs		21	20-Aug-26	09-Sep-26	78						RC Stairs
NO NA NA SUCCESSO SE-SOL DE SUCCESSORS SURA TORIO PARAMA EN RELEASE EN	y @ +95.8mPD incl. scaffold erection	21	03-Sep-26	23-Sep-26							■ Roof Cano
SW-PAB-S4080 Installation of F		18	22-Oct-26	08-Nov-26							nstalla 📥
SW-PAB-S4090 Waterproofing		18	09-Nov-26	26-Nov-26	<u> </u>						_ Wate
SW-PAB-S4100 Complete RC		n	03-140V-ZU	26-Nov-26	0						◆ Con
Y						Date		Revision		Checke	ed Approv
Actual Work				3 of 15		12-Dec-22	First Programme	LYCADIOLI		CHECKE	4 Applot
Remaining Work Critical Remaining Work	Summary					12 000-22	p not rogrammo				

ID	Activity Name	Original Duration	Start	Finish	Total Float N	2023 2024 2025 2025 2026 2026 2027 DJFMAMJJASONDJFMAMJJASONDJFMAMJJASONDJF
ABWF/MEP/FS/F	Fitout Works	595	25-Aug-25	11-Apr-27	0	
For Grid No. U - BB		409	25-Aug-25	07-Oct-26	77	V 07-O¢t-26,
G/F - Transformer F	Room & LV Switch Room	409	25-Aug-25	07-Oct-26	47	07-Oct-26,
SW-PAB-A501	TR &LVSR - Falsework Removal/ Preparation for ABWF & MEP Works	35	25-Aug-25	28-Sep-25	267	TR &LVSR - Falsework Removal/ Preparation 1
SW-PAB-A502	TR &LVSR - ABWF Deg1 - Deg3	38	29-Sep-25	05-Nov-25	267	TR&LV\$R+ABWF Deg1+ Deg3
SW-PAB-A503	TR &LVSR - BS 1st Fix - 3rd Fix	38	13-Oct-25	19-Nov-25	267	TR &LVSR - BS 1st Fix - 3rd Fix
SW-PAB-A504	TR &LVSR - CLP Inspection and Defect Rectification	12	20-Nov-25	01-Dec-25	267	☐ TR &LVSR - CLP Inspection and Defect
SW-PAB-A505	TR &LVSR - Installation of Transformer and T&C by CLP	90	02-Dec-25	01-Mar-26	267	TR &LVSR - Installation of Trans
SW-PAB-A506	TR &LVSR - Completion of CLP Cable Laying Leading to PAB	30	08-Sep-26	07-Oct-26	47	·
	TR &LVSR - Power-on Date	0	•	07-Oct-26	47	→ TR&LVSR
1/F - Genset Room		152	25-Oct-25	25-Mar-26	243	25-Mar-26, 1/F - Genset Roo
SW-PAB-A511	Genset Rm - Falsework Removal/ Preparation for ABWF & MEP Works	35	25-Oct-25	28-Nov-25	243	Genset Rm - Falsework Removal/ Prepa
	Genset Rm - Concrete Plinth, Waterproofing & Test	12	29-Nov-25	10-Dec-25	243	☐ Genset Rm - Concrete Plinth, Waterpro
	Floor Screeding, Wall Plastering & Doors & Wall Lining	28	11-Dec-25	07-Jan-26	243	□ Floor Screeding, Wall Plastering & Do
		20	Dept. France Dept.			□ MEP Works
SW-PAB-A514		28	08-Jan-26	04-Feb-26	243	□ Move-In Generator Equipments
	Move-In Generator Equipments		05-Feb-26	11-Feb-26	243	☐ Final Coat to Wall & Sealer to Flo
\$15000000000000	Final Coat to Wall & Sealer to Floor	14	12-Feb-26	25-Feb-26	243	
	Install Generator Equipments & Testing	28	26-Feb-26	25-Mar-26	243	install Generator Equipments
Other Rooms		187	25-Aug-25	27-Feb-26	299	27-Feb-26, Other Rooms
SW-PAB-A521	G/F - Falsework Removal/ Preparation for ABWF & MEP Works	42	25-Aug-25	05-Oct-25	360	G/F - Falsework Removal/Preparation for AB
SW-PAB-A522	G/F - ABWF Deg1 - Deg3	70	06-Oct-25	14-Dec-25	360	G/F-ABWFDeg1-Deg3
SW-PAB-A523	G/F - BS 1st Fix - 3rd Fix	70	20-Oct-25	28-Dec-25	360	G/F-BS1stFix-3rdFix
SW-PAB-A524	1/F - Falsework Removal/ Preparation for ABWF & MEP Works	42	25-Oct-25	05-Dec-25	299	1/F- Falsework Removal/ Preparation fo
SW-PAB-A525	1/F - ABWF Deg1 - Deg3	70	06-Dec-25	13-Feb-26	299	1/F-ABWF Deg1-Deg3
SW-PAB-A526	1/F - BS 1st Fix - 3rd Fix	70	20-Dec-25	27-Feb-26	299	1/F - BS 1/st Fix - 3rd Fix
For Grid No. BB - EB		187	20-Jun-26	23-Dec-26	0	23-
G/F - FS Water Tan	nk & FS Pump Room	129	20-Jun-26	26-Oct-26	28	26-Φct+2
SW-PAB-A601	FS Water Tank & Pump Rm - Falsework Removal/ Preparation for ABWF & MEP Works	35	20-Jun-26	24-Jul-26	28	rs Water Tank &
SW-PAB-A602	FS Water Tank & Pump Rm - Waterproofing & Testing	14	25-Jul-26	07-Aug-26	28	
SW-PAB-A603	FS Water Tank & Pump Rm - Plastering Works Inside Tank	14	08-Aug-26	21-Aug-26	28	□ FS Water Tank
SW-PAB-A604	FS Water Tank & Pump Rm - Wall and Floor Tiling Works	21	22-Aug-26	11-Sep-26	28	FS Water Tar
sentientientie so on ou-en o sino-tr en se	FS Water Tank & Pump Rm - Install Equipment	45	12-Sep-26	26-Oct-26	28	FS Water
	FS Water Tank & Pump Rm - Install Cat Ladder & Hatch Cover	10	17-Oct-26	26-Oct-26	28	□ FS V Vate
Other Rooms	1 O TTALO TOTAL TO	187	20-Jun-26	23-Dec-26		
	G/F - Falsework Removal/ Preparation for ABWF & MEP Works	101	20-Jun-26	31-Jul-26	61	G/F- Falsework F
250-00-1-00-1-00		70		575. 51. 555.555.55	64	G/F-ABW
	G/F - ABWF Deg1 - Deg3	70	01-Aug-26	09-Oct-26	01	G/F-ADW
	G/F - BS 1st Fix - 3rd Fix	70	15-Aug-26	23-Oct-26	67	1
	1/F - Falsework Removal/ Preparation for ABWF & MEP Works	42	20-Aug-26	30-Sep-26	0	
	1/F - ABWF Deg1 - Deg3	70	01-Oct-26	09-Dec-26	0	1
\$45600000000000	1/F - BS 1st Fix - 3rd Fix	70	15-Oct-26	23-Dec-26	0	
External Works		197	08-Sep-26	23-Mar-27	19	
SW-PAB-E1000	Underground Utilities Works, Drainage Works & Testing	100	08-Sep-26	16-Dec-26	0	
SW-PAB-E1010	Backfilling to Ground Level	30	23-Oct-26	21-Nov-26	19	i i i i i i i i i i i i i i i i i i i
SW-PAB-E1020	Site preparation and erect external falsework around building	14	22-Nov-26	05-Dec-26	19	site p
Actual Wo	ork			4 of 15		Date Revision Checked Approve
Remaining				4 01 13		12-Dec-22 First Programme
	maining Work					
- United File						

	Activity Name	Duration	Start	Finish	Total Float N D	J F M A M J J A S O N D J F M A	MJJASON	DJFMAMJJASOND	JFMAMJJAS	2 S O N D J F
SW-PAB-E1030	Extenal wall plastering/ painting works	24	06-Dec-26	29-Dec-26	79					Ext
SW-PAB-E1040	Extenral wall tiles	24	06-Dec-26	29-Dec-26	19					□ E×
SW-PAB-E1050	Install Metal Doors, Roller Shutter, Cat-Ladder and Metal Railings	24	30-Dec-26	22-Jan-27	79					
SW-PAB-E1060	Install Steel Claddings, Ventilation Louvres, External Ceiling	24	30-Dec-26	22-Jan-27	19					
SW-PAB-E1070	Construction of vehicular road	45	23-Jan-27	08-Mar-27	34					
SW-PAB-E1080	Install Bi-folding gate, security fenece, footpath, boundary wall	60	23-Jan-27	23-Mar-27	19					
	Complete External Works	0		23-Mar-27	19					
esting and Commisi	•	97	24-Nov-26	28-Feb-27	0					
	1A - West Fire Sta - Testing and Commissioning (FS - Related)	18	24-Nov-26	11-Dec-26	0					1 A-
	1A - West Fire Sta - Testing and Commissioning (Non FS - Related)	67	24-Dec-26	28-Feb-27						
andscaping and Arc		219	20-Aug-26	26-Mar-27	16					
10 E	Construction of Gabion Wall	60	20-Aug-20 20-Aug-26	18-Oct-26	131					Construc
				0 20 000 000000						Tree T
at newayawa yazawa	Tree Transplant near Gabion Wall	60	19-Sep-26	17-Nov-26	131					□ Instal
	Installation of Landscape Fence	14	18-Nov-26	01-Dec-26	131		 		·	
	Architectural Roof hardwork	120	27-Nov-26	26-Mar-27	16					
	Architectural Roof softwork and Tree transplant	60	27-Dec-26	24-Feb-27	46					
tatutory Approval &	Inspection	156	07-Nov-26	11-Apr-27	0					
NSD Inspection		114	07-Nov-26	28-Feb-27	0					
SW-PAB-8000	Submit WWO 46 Part IV (PD) and Wait for Inspection by WSD	35	07-Nov-26	11-Dec-26	9					Sub
SW-PAB-7000	Submit WWO 46 Part IV (FS) and Wait for Inspection by WSD	35	07-Nov-26	11-Dec-26	0					Sub
SW-PAB-8010	Inspection and Re-inspection by WSD (PD) (including water test)	49	12-Dec-26	29-Jan-27	9					
SW-PAB-7010	Inspection and Re-inspection by WSD (FS)	58	12-Dec-26	07-Feb-27	0					
SW-PAB-8020	Issuance Period of WWO 46 Part V (PD)	21	30-Jan-27	19-Feb-27	9					
SW-PAB-7020	Issuance Period of WWO 46 Part V (FS)	21	08-Feb-27	28-Feb-27	О					
SW-PAB-8030	Obtain WWO 46 Part V (PD) by WSD	0		19-Feb-27	9					
SW-PAB-7030	Obtain WWO 46 Part V (FS) by WSD	0		28-Feb-27	0					
SD and OP Inspect	tion	121	12-Dec-26	11-Apr-27	0					
SW-PAB-9000	Submit Form 314 / FSI501 and Wait for Inspection by FSD	21	12-Dec-26	01-Jan-27	58					_ \$
	FS Inspection and Re-inspection	28	01-Mar-27	28-Mar-27	0					
	Issue Fire Certificate (FS172)	14	29-Mar-27	11-Apr-27	0		}			
	Obtain Fire Certificate (FS172) by FSD	n		11-Apr-27						
icular Access Tur		1145	09-Mar-23	15-Jan-27	66					
				15-0att-27 15-Oct-24	654		15-	Oct-24, Tunnel Works CH 3 - 40 by C	it and Cover Method	
	s - 40 by Cut and Cover Method	476	09-Mar-23		054	24-May-23, Preliminary Works				
reliminary Works		77	09-Mar-23	24-May-23	4-					
200000000000000000000000000000000000000	Access to Portion 1	0	09-Mar-23		15	Access to Portion 1				
	Tree Survey at Portion 1	30	09-Mar-23	07-Apr-23	15	Tree Survey at Portion 1		1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Hoarding Erection and Site Setup	10	13-Apr-23	22-Apr-23	0	■ Hoarding Erection and Site Setup				
	Tree Treatment and Site Clearance	28	23-Apr-23	20-May-23	0	Tree Treatment and Site Clear				
SW-VAT-1040	Survey, Trial pit, UU detection, Condition survey	14	11-May-23	24-May-23	0	■ Survey, Trial pit, UU detection,				
tage 1 & 2 - ELS wo	orks, CH3 -27, at Zone0 (up to existing kerb line of Lion Rock Road)	141	25-May-23	11-Nov-23	49	11-Nov-23, St	age 1 & 2 - ELS work	s, CH3-27, at Zone0 (up to existing ke	rb line of Lion Rock Roa	ad)
SVV-VAT-1100	Installation of Pipe Pile (Total: 34no) (PR=2.5d/pile/rig) (2 rigs)	43	25-May-23	17-Jul-23	0	Installation of Pipe Pile (T	otal: 34no) (PR=2.5d/	pile/rig) (2 rigs)		
SW-VAT-1110	Installation of King Post (Total: 4no) (PR=2.5d/pile/rig) (2 rigs)	5	18-Jul-23	22-Jul-23	0	Installation of King Post (Total: 4no) (PR=2.5d/	pile/rig) (2 rigs)		
SW-VAT-1130	Soil Excavation for Temporary Steel Platform (Total:878m3) (PR=180m3/d)	5	24-Jul-23	28-Jul-23	0	■ Soil Excavation for Temp	orary Steel Platform (Total:878m3) (PR=180m3/d)	1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SW-VAT-1140	Erection of Temporary Steel Platform for Traffic Diversion	18	29-Jul-23	18-Aug-23	0	■ Erection of Temporary	Steel Platform for Tra	iffic Diversion	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I I
A a4a1187-1	1. Cumana and					Date		Revision	Checked	Approv
Actual Worl				5 of 15			ogramme		Oncorou	, , , , , , , , , , , , , , , , , , ,
Remaining	Work naining Work					IZ DOUZZ I II St I I	- SIGILLIO			

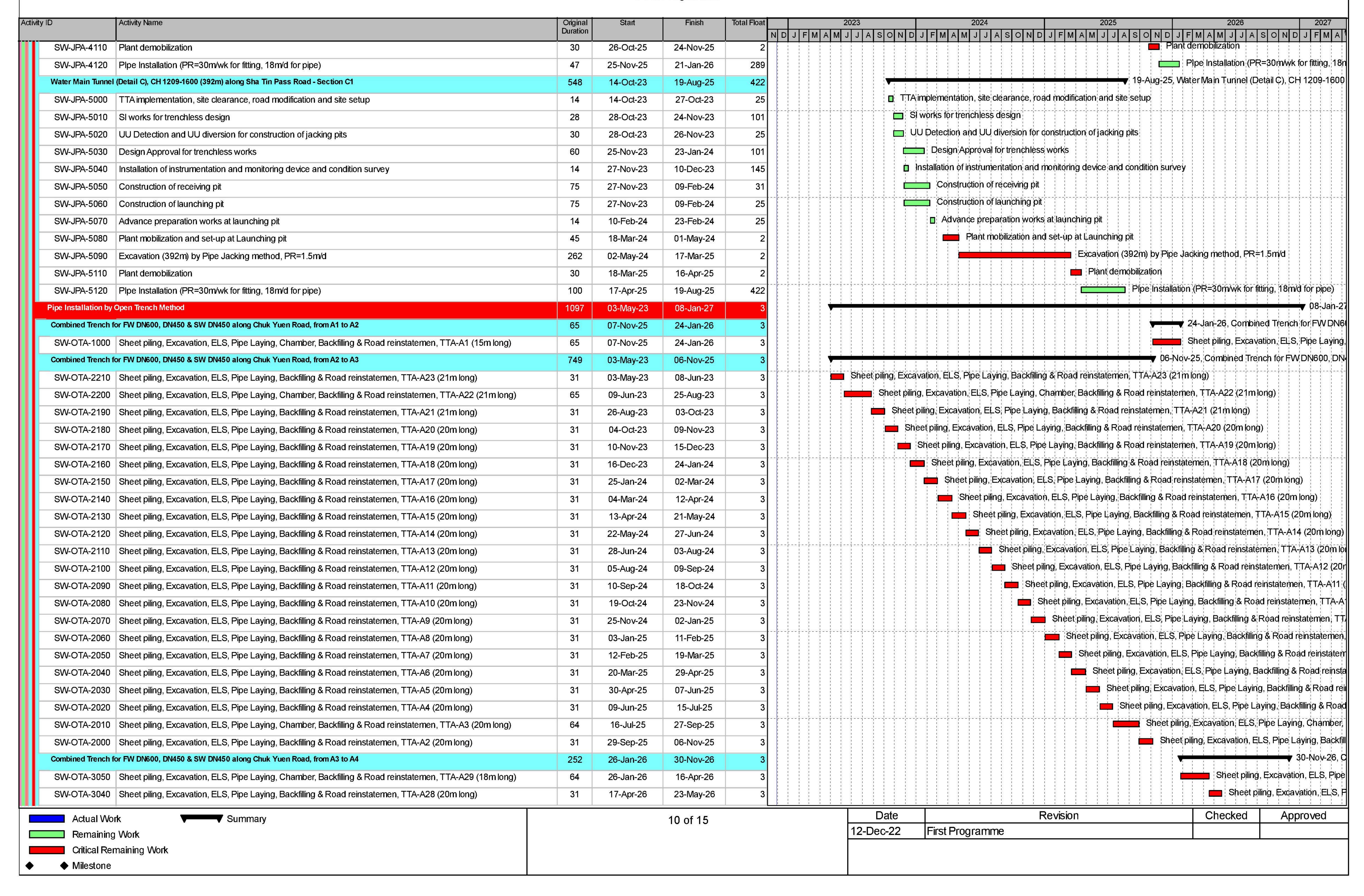
ID	Activity Name	Original Duration	Start	Finish	Total Float N	2023 2024 2025 2025 2026 2026 2027 2028 2027 2028 2028 2029 2028 2029 2029 2029 2029
SW-VAT-1150	Erection of Temporary Steel Platform for Bored Pile Construction support with King Post	18	19-Aug-23	08-Sep-23	49	Erection of Temporary Steel Platform for Bored Pile Construction support with King Post
SW-VAT-1160	Soil Excavation for C&C Tunnel (Total: 6460m3) (PR=180m3/d)	52	09-Sep-23	11-Nov-23	49	Soil Excavation for C&C Tunnel (Total: 6460m3) (PR=180m3/d)
Tugo of Zeo works	CHET II, II ESIION COMMINICANI MARKANI	67	19-Aug-23	08-Nov-23	0	08-Nov-23, Stage 3 - ELS works, CH27-40, at ZoneA
SW-VAT-1200	Divert the Traffic onto the Temporary Steel Platform to maintain access to Lion Rock Park and DSD-TTA1	3	19-Aug-23	22-Aug-23	0	■ Divert the Traffic onto the Temporary Steel Platform to main tain a cœss to Lion Rock Park and DSD - TTA1
SW-VAT-1210	Construction of Concrete Block Wall and Form Working Platform at +89mPD (3d+3d)	6	23-Aug-23	29-Aug-23	6	■ Construction of Concrete Block Wall and Form Working Platform at +89mPD (3d+3d)
SW-VAT-1220	Trial Trench, UU detection and diversion	12	23-Aug-23	05-Sep-23	0	☐ Trial Trench, UU detection and diversion
SW-VAT-1230	Installation of Pipe Pile (Total: 15no) (PR=2.5d/pile/rig) (1 rigs)	38	06-Sep-23	21-Oct-23	0	Installation of Pipe Pile (Total: 15no) (PR=2.5d/pile/rig) (1 rigs)
	Construction of Temporary Steel Platform at Zone A for Traffic Diversion	14	24-Oct-23	08-Nov-23	0	Construction of Temporary Steel Platform at Zone A for Traffic Diversion
	orks, CH27 -40, at ZoneB	110	09-Nov-23	21-Mar-24	0	21-Mar-24, Stage 4 & 5 - ELS works, CH27 -40, at ZoneB
SW-VAT-1300	Divert the Traffic onto the Temporary Steel Platform to main tain a coess to Lion Rock Park and DSD-TTA2	3	09-Nov-23	11-Nov-23	0	■ Divert the Traffic onto the Temporary Steel Platform to maintain access to Lion Rock Park and DSD - TTA2
	Trial Trench, UU detection and diversion	6	13-Nov-23	18-Nov-23	0	■ Trial Trench, UU detection and diversion
27/40/19/20/44/7 (Call)	Installation of Pipe Pile (Total: 12no) (PR=2.5d/pile/rig) (1 rigs)	30	20-Nov-23	23-Dec-23		Installation of Pipe Pile (Total: 12no) (PR=2.5d/pile/rig) (1 rigs)
ACC 112 112 DECEMBER SAME SO YOUR PROPERTY.	Construction of Temporary Steel Platform at Zone B for Traffic Diversion	10	27-Dec-23	08-Jan-24		Construction of Temporary Steel Platform at Zone B for Traffic Diversion
	Divert the Traffic onto the Temporary Steel Platform to maintain access to Lion Rock Park and DSD-TTA3	3	70277500 1000 F000 F0	11-Jan-24		■ Divert the Traffic onto the Temporary Steel Platform to main tain a ccess to Lion Rock Park and DSD - TTA3
		EO	09-Jan-24			Remaining Soil Excavation for C&C Tunnel (Total: 5870m3) (PR=200m3/d) + 28d ELS with 4 strut 8
Structure Works	Remaining Soil Excavation for C&C Tunnel (Total: 5870m3) (PR=200m3/d) + 8d ELS with 4 strut & tie-back	58	12-Jan-24	21-Mar-24	0	Temaining Soil Excavation for C&C Turiner (Total. 3670115) (PR-200115/q) + 260 ELS With 4 Structure Works
		167	22-Mar-24	15-Oct-24	654	Construction of blinding, waterproofing layer and base slab (Total: 792m3, 8bays(10x16.5), PR=
	Construction of blinding, waterproofing layer and base slab (Total: 792m3, 8bays(10x16.5), PR=12d/bay)	24	22-Mar-24	23-Apr-24	638	
	Construction of temporary wall, waterproofing layer and wall (Total: 960m3, 8bays (10x10), PR= 12d/bay)	48	24-Apr-24	21-Jun-24	638	Construction of temporary wall, waterproofing layer and wall (Total: 960m3, 8bays (10x10),
SW-VAT-1520	Erection of working platform	21	22-Jun-24	17-Jul-24	638	□ Erection of working platform
SW-VAT-1530	Construction of top slab (Total: 792m3, 4bays(10x16.5), PR = 12d/bay, 2workfront)	24	18-Jul-24	14-Aug-24	638	Construction of top slab (Total: 792m3, 4bays(10x16.5), PR = 12d/bay, 2workfront)
SW-VAT-1540	Backfilling to existing level	30	15-Aug-24	13-Sep-24	785	□ Backfilling to existing level
SW-VAT-1550	Removal of temporary steel platform (staged TTA)	18	14-Sep-24	01-Oct-24	804	Removal of temporary steel platform (staged TTA)
SW-VAT-1560	Reinstatement of road (staged TTA)	32	14-Sep-24	15-Oct-24	804	Reinstatement of road (staged TTA)
Tunnel Works CH 4	40 - 775.8 & Cavems (5no.) by Mechanical Break & Drill & Blast Method	745	01-Mar-24	15-Mar-26	0	15-Mar-26, Tunnel Works CH
SW-VAT-2000	Opening of Pipe Plle Wall, Porta I construction and site setup	50	01-Mar-24	19-Apr-24	0	Opening of Pipe Plle Wall, Portal construction and site setup
SW-VAT-2010	Tunn elling works for vehicular access tunnel, T1-I by mech. break (236m) (7day work)	241	15-Mar-24	10-Nov-24	0	Tunn elling works for vehicular access tunnel, T1-li by mech. break (236m) (7c
SW-VAT-2020	Tunn elling works for vehicular access tunnel, T2-III by Drill & Blast (61.15m) (5Blast/wk)	116	13-Aug-24	06-Dec-24	О	Tunn elling works for vehicular access tunnel, T2-III by Drill & Blast (61,15m)
SW-VAT-2030	Tunn elling works for vehicular access tunnel, T1-II by mech. break (78.8m) (7day work)	116	03-Sep-24	27-Dec-24	О	Tunn elling works for vehicular access tunnel, T1-II by mech. break (78.8r
SW-VAT-2040	Tunn elling works for vehicular access tunnel, T2-III by Drill & Blast (155.45m) (5Blast/wk)	240	29-Oct-24	25-Jun-25	О	Tunn elling works for vehicular access tunnel, T2-III by D
SW-VAT-2050	Tunn elling works for vehicular access tunnel, J1-III by Drill & Blast (204.4m) (5Blast/wk)	304	09-Jan-25	08-Nov-25	О	Tunn elling works for vehicular access tunn
SW-VAT-2110	Tunn elling works for Caverns 1 by Drill & Blast (93.1m) (5Blast/wk)	172	30-Apr-25	18-Oct-25	0	Tunnelling works for Caverns 1 by Drill & Blas
Separation of the last section of the section	Tunn elling works for Caverns 3 by Drill & Blast (87.4m) (5Blast/wk)	150	03-Jul-25	29-Nov-25	0	Tunnelling works for Caverns 3 by Drill &
	Tunn elling works for Caverns 5 by Drill & Blast (83.0m) (5Blast/wk)	129	06-Sep-25	12-Jan-26	0	Tunnelling works for Caverns 5 by D
SW-VAT-2120	Tunn elling works for Caverns 2 by Drill & Blast (80.7m) (5Blast/wk)	118	24-Sep-25	19-Jan-26	1	Tunn elling works for Caverns 2 by E
SW-VAT-2140	Tunnelling works for Caverns 4 by Drill & Blast (78.3m) (5Blast/wk) [140]	120	16-Nov-25	15-Mar-26		Tunn elling works for Caverns
#150 At 1250 217 41951 12520 125 1		868	We token to between the summer.	15-Mai-20	86	
Remaining Works SW-VAT-3000	Construction of shotcrete (min 10m away from exc. face, SS+12, FF+60) 736m, PR=12m/wk (434d)	40E	31-Aug-24 31-Aug-24	07-Jan-26	64	Construction of shotcrete (min 10m a
		495 361			64	[CH40-571] Construction of draina
	[CH40-571] Construction of drainage layer, base slab, lower part (200m from exca, SS+176;FF+30) 532m, PR=12m		11-Feb-25	06-Feb-26	04	[CH40-571] Construction o
	[CH40-571] Construction of RC Lining (min 24m from base slab + 2wk erection, SS+30) 532m, PR=12m/9d (405d)	405	13-Mar-25	21-Apr-26	04	
	[CH40-776] Construction of compartment RHS (min 24m from Lining, SS+18), 736m, PR=12m/9d [558d]	558	31-Mar-25	09-Oct-26	64	
Anapologistation de location—els absorbessioness persient	[CH571-776] Construction of drainage layer, base slab, lower part (after all excavation) 204m, PR=12m/wk (119d)	119	16-Mar-26	12-Jul-26	56	[CH571-776] Cons
	[CH571-776] Construction of RC Lining (min 24m from base slab + 2wk erection, SS+30) 204m, PR=12m/9d (153d)	153	15-Apr-26	14-Sep-26	67	
	[CH40-776] Construction of compartment LHS (min 24m from Lining, SS+18), 736m, PR=24m/wk [217d]	217	14-May-26	16-Dec-26	56	
SW-VAT-3040	Installation of pipeworks below proposed road level (Total: 4416m) PR=36m/d incl. 1M for Pressure Test (150d)	229	01-Jun-26	15-Jan-27	56	
Actual Wor	rk Summary			6 of 15		Date Revision Checked Approve
Remaining				3 31 13		12-Dec-22 First Programme
	naining Work					

ity ID Act	ctivity Name	Original Duration	Start	Finish	Total Float	N D .	2023 2026 2026 DJFMAMJJASONDJFMAMJJASONDJFMAMJJJASONDJFMAMJJASONDJFMAMJJASONDJF
SW-VAT-3070 Co	onstruction of OHVD, 736m, PR=12d/50m	180	01-Jul-26	27-Dec-26	105		
SW-VAT-3060 Ins	stallation of CLP power cable along VAT	60	17-Nov-26	15-Jan-27	56		
Cavems 1 - Salt Water	Service Reservoir No.1	478	28-Aug-25	11-Apr-27	0		
SW-C1-1010 Ca	averns 1 - Construction of Shotcrete	67	28-Aug-25	17-Nov-25	0		Caverns 1 - Construction of Shotorete
SW-C1-1000 Ca	averns 1 - Completion of Tunnel Works	0		18-Oct-25	0		◆ Caverns 1 - Completion of Tunnel Works
SW-C1-1020 Ca	averns 1 - Construction of Cavern Lining (Total: 28.5m long, PR=12m/9d + 2wk for erection)	39	18-Nov-25	05-Jan-26	0		Caverns 1 - Construction of Cavern L
SW-C1-1030 Ca	averns 1 - Waterproofing system and protection layer to Wall and Slab	60	06-Jan-26	06-Mar-26	0		Caverns 1 - Waterproofing syste
SW-C1-1040 Ca	averns 1 - Construction of Slab 1.6m thk for water tank area (Total: 1939m3, 12bays(11x9), PR= 15d/bay, 3workfrc	60	05-Feb-26	22-Apr-26	0		Caverns 1 - Construction o
SW-C1-1060 Ca	averns 1 - Construction of Slab 1.0m thk for pump/plant room area (Total:1200m3, 11bays(12x9), PR=12d/bay, 3 w	48	23-Apr-26	20-Jun-26	0		Caverns 1 - Construc
SW-C1-1050 Ca	averns 1 - Construction of wall, beam & slab up to 91.35mPD for water tank area	90	23-Apr-26	21-Jul-26	84		Cavems 1 - Const
SW-C1-1070 Ca	averns 1 - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area	55	21-Jun-26	14-Aug-26	0		Cavems 1 - Con
SW-C1-1080 Ca	averns 1 - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area	60	15-Aug-26	13-Oct-26	0		Cavems 1
SW-C1-1090 Ca	averns 1 - Construction of remaining works incl. staircase, partition wall and other civil works for E&M plant	90	14-Oct-26	11-Jan-27	0		
SW-C1-1100 Ca	averns 1 - BS, E&M works and ABWF	150	14-Oct-26	12-Mar-27	0		
SW-C1-1110 Ca	averns 1 - Completion of BS and ABWF works for Transformer Room and Switcboard Room	0		12-Dec-26	0		i i i i i i i i i i i i i i i i i i i
SW-C1-1120 Ca	averns 1 - CLP installation works in Transformer Room and Switcboard Room	60	13-Dec-26	10-Feb-27	0		
SW-C1-1130 Ca	averns 1 - Testing and Commissioning	90	12-Jan-27	11-Apr-27	0		
Cavems 2 - Salt Water	Service Reservoir No 2	390	12-Dec-25	11-Apr-27	0		
SW-C2-1010 Ca	averns 2 - Construction of Shotcrete	54	12-Dec-25	20-Feb-26	1		Cavems 2 - Construction of Shot
SW-C2-1000 Ca	averns 2 - Completion of Tunnel Works	0		19-Jan-26	1		◆ Cavems 2 - Completion of Tunnel V
SW-C2-1020 Ca	averns 2 - Construction of Cavern Lining (Total: 33.2m long, PR=12m/9d + 2wk for erection)	39	20-Feb-26	09-Apr-26	1		Caverns 2 - Construction of
SW-C2-1030 Ca	averns 2 - Waterproofing system and protection layer to Wall and Slab	60	10-Apr-26	08-Jun-26	1		Caverns 2 - Waterpro
SW-C2-1040 Ca	averns 2 - Construction of Slab 1.6m thk for water tank area (Total: 1880m3, 15bays (11x7), PR= 15d/bay, 3workfr	60	11-May-26	22-Jul-26	0		Cavems 2 - Const
SW-C2-1060 Ca	averns 2 - Construction of Slab 1.0m thk for pump/plant room area (Total:597m3, 7bays(11x7.5), PR=12d/bay, 3 w	36	23-Jul-26	02-Sep-26	0		Caverns 2 - C
SW-C2-1050 Ca	averns 2 - Construction of wall, beam & slab up to 91.35mPD for water tank area	90	23-Jul-26	20-Oct-26	16		Cavems 2
SW-C2-1070 Ca	averns 2 - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area	34	03-Sep-26	06-Oct-26	0		□□□ Caverns 2 -
SW-C2-1080 Ca	averns 2 - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area	60	07-Sep-26	05-Nov-26	0		
SW-C2-1090 Ca	averns 2 - Construction of remaining works incl. staircase, partition wall and other civil works for E&M plant	90	07-Oct-26	04-Jan-27	67		Ça
SW-C2-1100 Ca	averns 2 - BS, E&M works and ABWF	127	06-Nov-26	12-Mar-27	0	l I I I I I	
SW-C2-1110 Ca	averns 2 - Connect power cable from SWSR1 Transformer Room & Switcboard Room to SWSR2	60	13-Dec-26	10-Feb-27	30		
SW-C2-1130 Ca	averns 2 - Testing and Commissioning	90	12-Jan-27	11-Apr-27	0		
SW-C2-1120 Ca	averns 2 - Energization of SWSR2	0	11-Feb-27		30		╌╂╌╂╌╂╌╂╌╂╌╂╌╂╌╂╌╂╌╀╌╀╌╀╌┾╌┾╌┾╌┼╌┼╌╂╌╂╌╂╌╂╌╂╌╀╌┼╌┼╌┼╌┼╌┼╌┼╌┼╌┼╌┼╌┼╌┼╌┼
Cavems 3 - Salt Water	Service Reservoir No.3	434	21-Oct-25	10-Apr-27	0		
SW-C3-1010 Ca	averns 3 - Construction of Shotcrete	57	21-Oct-25	29-Dec-25	1		Caverns 3 - Construction of Shotcrete
SW-C3-1000 Ca	averns 3 - Completion of Tunnel Works	0		29-Nov-25	1		◆ Caverns 3 - Completion of Tunnel Works
107 107 107 107 107 107 107 107 107 107	· avems 3 - Construction of Cavern Lining (Total: 28.3m long, PR=12m/9d + 2wk for erection)	39	30-Dec-25	13-Feb-26	1		Caverns 3 - Construction of Cave
	averns 3 - Waterproofing system and protection layer to Wall and Slab	60	14-Feb-26	14-Apr-26	1		Caverns 3 - Waterproofing s
	averns 3 - Construction of Slab 1.6m thk for water tank area (Total: 1961m3, 12bays (11x9), PR= 15d/bay, 3workfr	60	13-Mar-26	27-May-26	1		Cavems 3 - Construction
	averns 3 - Construction of Slab 1.0m thk for pump/plant room area (Total:597m3, 11bays (11x9), PR=12d/bay, 3 w		28-May-26	24-Jul-26	1		Caverns 3 - Const
	averns 3 - Construction of wall, beam & slab up to 91.35mPD for water tank area	90	28-May-26	25-Aug-26	49		Cavems 3 - Co
POC DAY DAY SOUTH WAY DEMONSTRATED WAY	averns 3 - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area	50	25-Jul-26	12-Sep-26	1		Caverns 3 - C
	averns 3 - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area	60	14-Aug-26	12-Oct-26	1		
	averns 3 - Construction of remaining works incl. staircase, partition wall and other civil works for E&M plant	90	13-Oct-26	10-Jan-27	61		
	averns 3 - BS, E&M works and ABWF	150	13-Oct-26	11-Mar-27	1		
Y		/ SS-2006 (40 F) (20 P)	**************************************	Principal desirences Principal			Date Devicion Charles I Approximate
Actual Work	Summary			7 of 15			
1,500							i pou le procession de la pour le pour le procession de la pour le proc
	ining vvork						
Actual Work Remaining Work Critical Remaining Milestone	/ork			7 of 15			Date Revision 12-Dec-22 First Programme

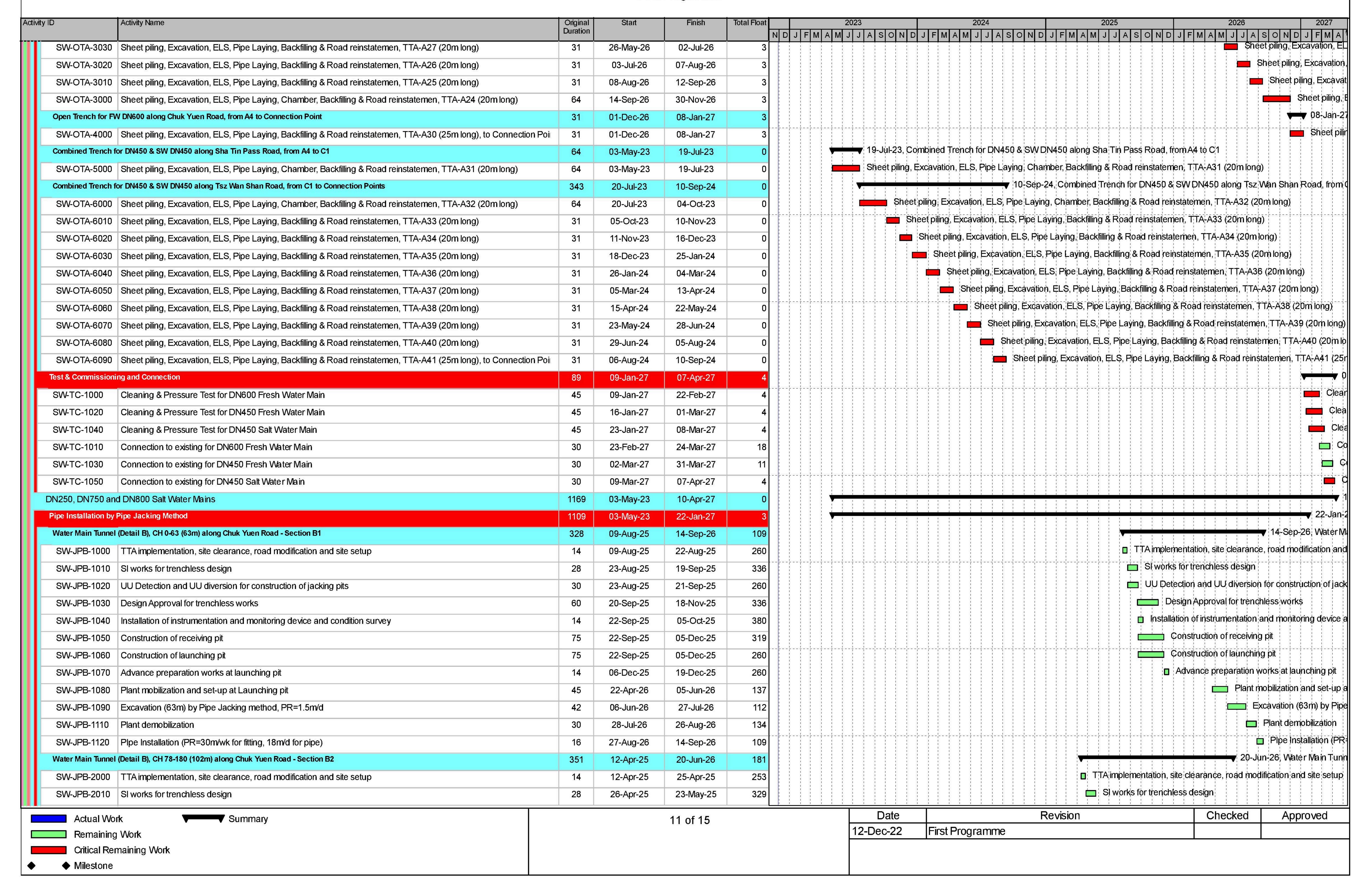
vity ID	Activity Name	Original Duration	Start	Finish	Total Float			2024 	SONDIE			SOND LE
SW-C3-1110	Caverns 3 - Connect power cable from SWSR1 Transformer Room & Switcboard Room to SWSR3	60	13-Dec-26	10-Feb-27	30	IN D J F	MIVINI 212 A 2 O M D	J I W A W J J A	JUND JF		IN D J F IM A IM J J A	S O N D J F
SW-C3-1130	Caverns 3 - Testing and Commissioning	90	11-Jan-27	10-Apr-27	1							
SW-C3-1120	Caverns 3 - Energization of SWSR3	0	11-Feb-27		30							
Cavems 4 - Fresh	Water Service Reservoir No.1	349	02-Feb-26	10-Apr-27	0							
SW-C4-1010	Caverns 4 - Construction of Shotcrete	56	02-Feb-26	14-Apr-26	20						Caverns 4	Construction of S
SW-C4-1000	Caverns 4 - Completion of Tunnel Works	0		15-Mar-26	1						◆ Caverns 4 - C	ompletion of Tunn
SW-C4-1020	Caverns 4 - Construction of Cavern Lining (Total: 20.3m long, PR=12m/9d + 2wk for erection)	30	30-Mar-26	07-May-26	1						Cavems	4 - Construction o
SW-C4-1030	Caverns 4 - Waterproofing system and protection layer to Wall and Slab	50	08-May-26	26-Jun-26	1						Cav	ems 4 - Waterpro
SW-C4-1040	Caverns 4 - Construction of Slab 1.6m thk for water tank area (Total: 2482m3, 15bays (11x9), PR= 15d/bay, 3workfro	60	28-May-26	07-Aug-26	1							Caverns 4 - Cons
SW-C4-1060	Caverns 4 - Construction of Slab 1.0m thk for pump/plant room area (Total:553m3, 6bays (11x9), PR=12d/bay, 3 wo	24	08-Aug-26	04-Sep-26	1							Caverns 4 - Co
SW-C4-1050	Caverns 4 - Construction of wall, beam & slab up to 91.35mPD for water tank area	90	08-Aug-26	05-Nov-26	7							Caverns
SW-C4-1070	Caverns 4 - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area	38	05-Sep-26	12-Oct-26	1							Cavems 4
SW-C4-1080	Caverns 4 - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area	60	13-Sep-26	11-Nov-26	1			 		-		Caverns
SW-C4-1000	Caverns 4 - Construction of remaining works incl. staircase, partition wall and other civil works for E&M plant	60	12-Nov-26	10-Jan-27	61							Cav
SW-C4-1100	Caverns 4 - Construction of ternaling works incl. stall case, partition wall and other civil works for Extriplant Caverns 4 - BS, E&M works and ABWF	120	12-Nov-26	11-Mar-27	1							
SW-C4-1100 SW-C4-1110	Caverns 4 - 65, Exivi works and Abvir Caverns 4 - Connect power cable from SWSR1 Transformer Room & Switchoard Room to SWSR4	60	12-Nov-26 13-Dec-26	10-Feb-27	20							
SW-C4-1110	Caverns 4 - Connect power cable from SvvSR1 Transformer Room & Switchboard Room to SvvSR4 Caverns 4 - Testing and Commissioning	00	13-Dec-26 11-Jan-27	10-Feb-27 10-Apr-27	30							
		90	36	10-Apr-27	20							
SW-C4-1120	Caverns 4 - Energization of SWSR4	202	11-Feb-27	10 000 07	30							
	Water Service Reservoir No.2	392	10-Dec-25	10-Apr-27	1						Caverns 5 - Cons	struction of Shotc
SW-C5-1010	Caverns 5 - Construction of Shotcrete	52	10-Dec-25	11-Feb-26	1						◆ Caverns 5 - Comple	
SW-C5-1000	Caverns 5 - Completion of Tunnel Works	U	40 - 100	12-Jan-26	1						Caverns 5 - C	
SW-C5-1020	Caverns 5 - Construction of Cavern Lining (Total: 22.5m long, PR=12m/9d + 2wk for erection)	30	12-Feb-26	21-Mar-26	1		- + + + +					5 - Waterproofing
SW-C5-1030	Caverns 5 - Waterproofing system and protection layer to Wall and Slab	50	22-Mar-26	10-May-26	2							1 1 1 1 1 7
SW-C5-1040	Caverns 5 - Construction of Slab 1.6m thk for water tank area (Total: 1961m3, 12bays (11x9), PR= 15d/bay, 3workfro		30-Apr-26	13-Jul-26	1							verns 5 - Constru
SW-C5-1060	Caverns 5 - Construction of Slab 1.0m thk for pump/plant room area (Total:986m3, 9bays (11x9), PR=12d/bay, 3 wo	36	14-Jul-26	24-Aug-26	1							Cavems 5 - Cor
SW-C5-1050	Caverns 5 - Construction of wall, beam & slab up to 91.35mPD for water tank area	90	14-Jul-26	11-Oct-26	32							Caverns 5
SW-C5-1070	Caverns 5 - Construction of soil filling, pipeworks and at-grade slab for pump/ plant room area	49	25-Aug-26	12-Oct-26	1							Caverns 5
SW-C5-1080	Caverns 5 - Construction of wall, beam & slab up to cavern soffit for pump/ plant room area	60	13-Sep-26	11-Nov-26	1							Caverns
SW-C5-1090	Caverns 5 - Construction of remaining works incl. staircase, partition wall and other civil works for E&M plant	60	12-Nov-26	10-Jan-27	1							Cay
SW-C5-1100	Caverns 5 - BS, E&M works and ABWF	120	12-Nov-26	11-Mar-27	1							
SW-C5-1110	Caverns 5 - Connect power cable from SWSR1 Transformer Room & Switcboard Room to SWSR5	60	13-Dec-26	10-Feb-27	30							
SW-C5-1130	Caverns 5 - Testing and Commissioning	90	11-Jan-27	10-Apr-27	1							
SW-C5-1120	Caverns 5 - Energization of SWSR4	0	11-Feb-27		30							
Water Mains Instal	llation Works in Portion 5	1283	09-Dec-22	10-Apr-27	0							
DN600 and DN45	50 Fresh Water Mains & DN450 Salt Water Mains	1280	09-Dec-22	07-Apr-27	3							
A1070	XP and TTA Application	145	09-Dec-22	02-May-23	0		XP and TTAApplicati	on				
A1080	Application of CNP to extend working hours for pipe jacking works	142	09-Dec-22	29-Apr-23	169		Application of CNP to	extend working hours	or pipe jacking w	orks		
Pipe Installation b	by Pipe Jacking Method	719	30-Aug-23	29-Jan-26	288						29-Jan-26, Pipe In	stallation by Pipe
Water Main Tunne	el (Detail A), CH 0-59 (59m) along Chuk Yuen Road - Section A1	296	02-Feb-25	29-Jan-26	282						29-Jan-26, Water	Main Tunnel (Det
SW-JPA-1000	TTA implementation, site clearance, road modification and site setup	14	02-Feb-25	15-Feb-25	226					TTA implementation, sit	e clearance, road modificatio	n and site setup
SW-JPA-1010	SI works for trenchless design	28	16-Feb-25	15-Mar-25	302		1			SI works for trenchle	ss design	
SW-JPA-1020	UU Detection and UU diversion for construction of jacking pits	30	16-Feb-25	17-Mar-25	226					UU Detection and U	J diversion for construction	of jacking pits
SW-JPA-1030	Design Approval for trenchless works	60	16-Mar-25	14-May-25	302					Design Approv	al for trenchless works	
SW-JPA-1040	Installation of instrumentation and monitoring device and condition survey	14	18-Mar-25	31-Mar-25	346					Installation of instru	mentation and monitoring de	vice and conditio
A_1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	lo de						Date		Revis	ion	Checked	Approve
Actual W				8 of 15			12-Dec-22	First Programme	AD, STATEMENT, ADJUNCTURE		Oncorcu	Approved
Remainin Critical Re	ng vvork emaining Work											
	emaining vvork e											

	Activity Name	Original Duration	Start	Finish	Total Float	J F M A M J	JASONDJ	FMAMJJA	solulo	J F M A M J J A S O N D J	2026 FMAMJJAS	
SW-JPA-1050	Construction of receiving pit	75	18-Mar-25	31-May-25	285					Construction of receiv	ng pit	
SW-JPA-1060	Construction of launching pit	75	18-Mar-25	31-May-25	226					Construction of launch	ing pit	
SW-JPA-1070	Advance preparation works at launching pit	14	01-Jun-25	14-Jun-25	226					Advance preparation	works at launching p	o i t
SW-JPA-1080	Plant mobilization and set-up at Launching pit	45	10-Sep-25	24-Oct-25	139			- 		Plant mo	bilization and set-up a	at Launching
SW-JPA-1090	Excavation (59m) by Pipe Jacking method, PR=1.5m/d	40	25-Oct-25	11-Dec-25	112					Exc	avation (59m) by Pipe	e Jacking metl
SW-JPA-1110	Plant demobilization	30	12-Dec-25	10-Jan-26	142					i i i i i i i i i i i i i i i i i i i	Plant demobilization	
SW-JPA-1120	Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)	16	12-Jan-26	29-Jan-26	282						Pipe Installation (PR	=30m/wk for f
ater Main Tunnel ((Detail A), CH 71-172 (101m) along Chuk Yuen Road - Section A2	316	16-Oct-24	07-Nov-25	350					07-Nov	-25, Water Main Tuni	nel (Detail A),
SW-JPA-2000	TTA implementation, site clearance, road modification and site setup	14	16-Oct-24	29-Oct-24	207		 		TTA	implementation, site clearance, road r	nodification and site se	etup
	SI works for trenchless design	28	30-Oct-24	26-Nov-24	283				s s	l works for trenchless design		
	UU Detection and UU diversion for construction of jacking pits	30	30-Oct-24	28-Nov-24	207					JU Detection and UU diversion for cons	struction of jacking pits	s
	Design Approval for trenchless works	60	27-Nov-24	25-Jan-25	283					Design Approval for trenchless wo	rks	
	Installation of instrumentation and monitoring device and condition survey	14	29-Nov-24	12-Dec-24	327					Installation of instrumentation and mor	itoring device and cor	ndition surve
	Construction of receiving pit	75	29-Nov-24	11-Feb-25	266					Construction of receiving pit		
	Construction of launching pit	75	29-Nov-24	11-Feb-25	207					Construction of launching pit		
	Advance preparation works at launching pit	14	12-Feb-25	25-Feb-25	207	1				Advance preparation works at	aunching pit	
	Plant mobilization and set-up at Launching pit			20-Jun-25	127					Plant mobilization an		a pit
and the same of th		45 68	07-May-25	109	142					Excavation (~!
	Excavation (101m) by Pipe Jacking method, PR=1.5m/d Plant demobilization	68	21-Jun-25	09-Sep-25	113			- 		Plant den		
		30	10-Sep-25	09-Oct-25							stallation (PR=30m/w	rk for filling 13
	Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)	24	10-Oct-25	07-Nov-25	350					10-Mar-25, Water Main Tunne		1 1 1 7 1
	(Detail A), CH 613-889 (276m) along Chuk Yuen Road - Section A3	454	30-Aug-23	10-Mar-25	547		TTA impole	montation site decree				
	TTA implementation, site clearance, road modification and site setup	14	30-Aug-23	12-Sep-23	172					odification and site setup		
	SI works for trenchless design	28	13-Sep-23	10-Oct-23	258			s for trenchless design	1 1 1			
	UU Detection and UU diversion for construction of jacking pits	30	13-Sep-23	12-Oct-23	172					truction of jacking pits		
SW-JPA-3030	Design Approval for trenchless works	60	11-Oct-23	09-Dec-23	258			esign Approval for tren				
SW-JPA-3040	Installation of instrumentation and monitoring device and condition survey	14	13-Oct-23	26-Oct-23	302		☐ Installa	ation of instrumentation	n and moni	toring device and condition survey		
SW-JPA-3050	Construction of receiving pit	75	13-Oct-23	26-Dec-23	195			Construction of receiving				
SW-JPA-3060	Construction of launching pit	75	13-Oct-23	26-Dec-23	172			Construction of launch	ing pit			
SW-JPA-3070	Advance preparation works at launching pit	14	06-Jan-24	19-Jan-24	172			Advance preparation	n works at	launching pit		
SW-JPA-3080	Plant mobilization and set-up at Launching pit	45	17-Feb-24	01-Apr-24	144			Plant mobiliza	ition and se	et-up at Launching pit		
SW-JPA-3090	Excavation (276m) by Pipe Jacking method, PR=1.5m/d	184	02-Apr-24	11-Nov-24	119				Ex	cavation (276m) by Pipe Jacking meth	od, PR=1.5m/d	
SW-JPA-3110	Plant demobilization	30	12-Nov-24	11-Dec-24	147					Plant demobilization		
SW-JPA-3120	Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)	70	12-Dec-24	10-Mar-25	547					Plpe Installation (PR=30m/wk	for fitting, 18m/d for pi	ipe)
ater Main Tunnel ((Detail A), CH 1000-1184 (184m) along Chuk Yuen Road - Section A4	359	06-Nov-24	21-Jan-26	289			-;;;;;;;;;;;;;-			21-Jan-26, Water Ma	in Tunnel (D
SW-JPA-4000	TTA implementation, site clearance, road modification and site setup	14	06-Nov-24	19-Nov-24	31					TA implementation, site clearance, road	modification and site	setup
SW-JPA-4010	SI works for trenchless design	28	20-Nov-24	17-Dec-24	107					SI works for trenchless design		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
SW-JPA-4020	UU Detection and UU diversion for construction of jacking pits	30	20-Nov-24	19-Dec-24	31	1				UU Detection and UU diversion for co	nstruction of jacking p	oits
SW-JPA-4030	Design Approval for trenchless works	60	18-Dec-24	15-Feb-25	107	1				Design Approval for trenchless v	vorks	1
SW-JPA-4040	Installation of instrumentation and monitoring device and condition survey	14	20-Dec-24	02-Jan-25	151					Installation of instrumentation and m	onitoring device and c	condition surv
SW-JPA-4050	Construction of receiving pit	75	20-Dec-24	04-Mar-25	34					Construction of receiving pit		
SW-JPA-4060	Construction of launching pit	75	20-Dec-24	04-Mar-25	31					Construction of launching pit		
SW-JPA-4070	Advance preparation works at launching pit	14	05-Mar-25	18-Mar-25	31					Advance preparation works a	it launching pit	
	Plant mobilization and set-up at Launching pit	45	17-Apr-25	31-May-25	2	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Plant mobilization and	set-up at Launching p	pit
	Excavation (184m) by Pipe Jacking method, PR=1.5m/d	123	02-Jun-25	25-Oct-25	1					Excavat	ion (184m) by Pipe Ja	acking metho
							Dete			Dovinion	Ob selection	Λ
Actual Worl				9 of 15			Date	First Drogramme	288	Revision	Checked	Approv
Remaining	Work						12-Dec-22	First Programme				

First Programme

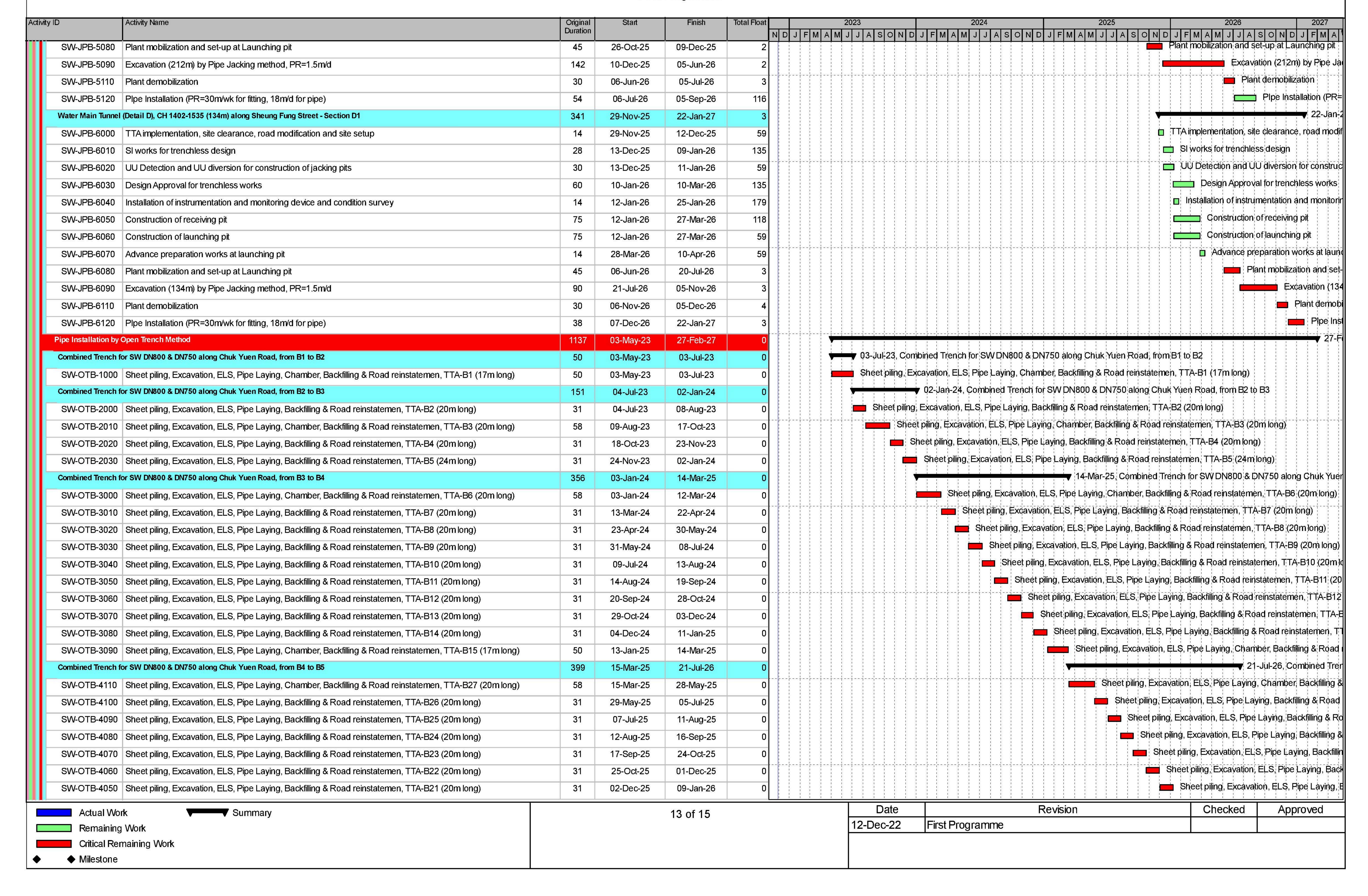


First Programme



	Activity Name	Duration	Start	Finish	Total Float N D J	2023 2026 2026 JFMAMJJJASONDJFMAMJJJASONDJFMAMJJJASONDJFMAMJJJASONDJFMAMJJJASONDJ
SW-JPB-2020	UU Detection and UU diversion for construction of jacking pits	30	26-Apr-25	25-May-25	253	UU Detection and UU diversion for construction of jacking
SW-JPB-2030	Design Approval for trenchless works	60	24-May-25	22-Jul-25	329	Design Approval for trenchless works
SW-JPB-2040	Installation of instrumentation and monitoring device and condition survey	14	26-May-25	08-Jun-25	373	☐ Installation of instrumentation and monitoring device and
SW-JPB-2050	Construction of receiving pit	75	26-May-25	08-Aug-25	312	Construction of receiving pit
SW-JPB-2060	Construction of launching pit	75	26-May-25	08-Aug-25	253	Construction of launching pit
SW-JPB-2070	Advance preparation works at launching pit	14	09-Aug-25	22-Aug-25	253	☐ Advance preparation works at launching pit
	Plant mobilization and set-up at Launching pit	45	12-Dec-25	25-Jan-26	142	Plant mobilization and set-up at Le
	Excavation (102m) by Pipe Jacking method, PR=1.5m/d	68	26-Jan-26	21-Apr-26	114	Excavation (102m) by Pip
	Plant demobilization	30	22-Apr-26	21-May-26	137	📺 Plant demobilization
	Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)	24	22-May-26	20-Jun-26	181	□ Plpe Installation (PF
	(Detail B), CH 263-414 (152m) along Chuk Yuen Road - Section B3	352	15-May-24	22-Jul-25	452	22-Jul-25, Water Main Tunnel (Detail B), CH 263-4
	TTA implementation, site clearance, road modification and site setup	14	15-May-24	28-May-24	195	TTA implementation, site clearance, road modification and site setup
	SI works for trenchless design	28	29-May-24	25-Jun-24	271	S) works for trenchless design
	UU Detection and UU diversion for construction of jacking pits	30	29-May-24	27-Jun-24	195	UU Detection and UU diversion for construction of jacking pits
			Section 1990		271	Design Approval for trenchless works
	Design Approval for trenchless works	60	26-Jun-24	24-Aug-24		Installation of instrumentation and monitoring device and condition survey
	Installation of instrumentation and monitoring device and condition survey	14 7-	28-Jun-24	11-Jul-24	315	Construction of receiving pit
57500000000 5750000 DIG00 20 AV AV 10 6000	Construction of receiving pit	75	28-Jun-24	10-Sep-24	207	Construction of receiving pit Construction of launching pit
	Construction of launching pit	75	28-Jun-24	10-Sep-24	195	
	Advance preparation works at launching pit	14	11-Sep-24	24-Sep-24	195	□ Advance preparation works at launching pit
SW-JPB-3080	Plant mobilization and set-up at Launching pit	45	12-Nov-24	26-Dec-24	147	Plant mobilization and set-up at Launching pit
SW-JPB-3090	Excavation (152m) by Pipe Jacking method, PR=1.5m/d	102	27-Dec-24	06-May-25	116	Excavation (152m) by Pipe Jacking method, PR=1.5m/d
SW-JPB-3110	Plant demobilization	30	07-May-25	05-Jun-25	137	□ Plant demobilization
SW-JPB-3120	Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)	39	06-Jun-25	22-Jul-25	452	Plpe Installation (PR=30m/wk for fitting, 18m/d for pi
Vater Main Tunnel ((Detail B), CH 608-760 (153m) along Chuk Yuen Road - Section B4	302	03-May-23	07-May-24	810	07-May-24, Water Main Tunnel (Detail B), CH 608-760 (153m) along Chuk Yuen Road - Sec
SW-JPB-4000	TTA implementation, site clearance, road modification and site setup	14	03-May-23	16-May-23	2	TTA implementation, site clearance, road modification and site setup
SW-JPB-4010	SI works for trenchless design	28	17-May-23	13-Jun-23	64	□ SI works for trenchless design
SW-JPB-4020	UU Detection and UU diversion for construction of jacking pits	30	17-May-23	15-Jun-23	2	uu Detection and UU diversion for construction of jacking pits
SW-JPB-4030	Design Approval for trenchless works	60	14-Jun-23	12-Aug-23	64	Design Approval for trenchless works
SW-JPB-4040	Installation of instrumentation and monitoring device and condition survey	14	16-Jun-23	29-Jun-23	108	☐ Installation of instrumentation and monitoring device and condition survey
SW-JPB-4050	Construction of receiving pit	75	16-Jun-23	29-Aug-23	47	Construction of receiving pit
SW-JPB-4060	Construction of launching pit	75	16-Jun-23	29-Aug-23	2	Construction of launching pit
SW-JPB-4070	Plant mobilization and set-up at Launching pit	45	30-Aug-23	13-Oct-23	2	Plant mobilization and set-up at Launching pit
SW-JPB-4080	Excavation (153m) by Pipe Jacking method, PR=1.5m/d	102	14-Oct-23	16-Feb-24	1	Excavation (153m) by Pipe Jacking method, PR=1.5m/d
SW-JPB-4100	Plant demobilization	30	17-Feb-24	17-Mar-24	2	Plant demobilization
SW-JPB-4110	Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)	39	18-Mar-24	07-May-24	810	Plpe Installation (PR=30m/wk for fitting, 18m/d for pipe)
	(Detail B), CH 1000-1208 (212m) along Chuk Yuen Road - Section B5	394	14-May-25	05-Sep-26	116	05-Sep-26, N
SW-JPB-5000	TTA implementation, site clearance, road modification and site setup	14	14-May-25	27-May-25	34	☐ TTA implementation, site clearance, road modification and
	SI works for trenchless design	28	28-May-25	24-Jun-25	110	📺 SI works for trenchless design
	UU Detection and UU diversion for construction of jacking pits	30	28-May-25	26-Jun-25	34	☐ UU Detection and UU diversion for construction of jac
	Design Approval for trenchless works	60	25-Jun-25	23-Aug-25	110	Design Approval for trenchless works
Substitution of Substitution Su	Installation of instrumentation and monitoring device and condition survey	14	27-Jun-25	10-Jul-25	154	☐ Installation of instrumentation and monitoring device
	Construction of receiving pit	75		PS 31401 03405 03404-401	50	Construction of receiving pit
		——————————————————————————————————————	27-Jun-25	09-Sep-25	24	Construction of launching pit
	Construction of launching pit	1.4	27-Jun-25	09-Sep-25	34	Advance preparation works at launching pit
SVV-JPB-5070	Advance preparation works at launching pit	. 14	10-Sep-25	23-Sep-25	34	Auvance preparation works at launching pit
Actual Work	k Summary			12 of 15		Date Revision Checked Approv
Remaining	Work					12-Dec-22 First Programme
	naining Work					

First Programme



Duration			N D J	J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D J F
31	10-Jan-26	14-Feb-26	0	Sheet piling, Excavation, ELS, Pip
31	16-Feb-26	26-Mar-26	0	i i Sheet piling, Ex¢avation, ELS,
31	27-Mar-26	06-May-26	О	⊨ Sheet piling, Excavation, E
31	07-May-26	12-Jun-26	0	□□ Sheet piling, Excavatio
31	13-Jun-26	21-Jul-26	0	= Sheet piling, Excav
337	11-Sep-24	31-Oct-25	0	31-Oct-25, Combined Trench for SW DN80
44	11-Sep-24	04-Nov-24	0	Sheet piling, Excavation, ELS, Pipe Laying, Chamber, Backfilling & Road reinst
14	05-Nov-24	20-Nov-24	0	■ Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatemen,
31	21-Nov-24	28-Dec-24	0	📺 Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinstatem
31	30-Dec-24	07-Feb-25	0	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road reinsta
31	08-Feb-25	15-Mar-25	0	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road rein
31	17-Mar-25	25-Apr-25	0	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & Road
31	26-Apr-25	04-Jun-25	О	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling & R
31	05-Jun-25	11-Jul-25	0	Sheet piling, Excavation, ELS, Pipe Laying, Backfilling &
31	12-Jul-25	16-Aug-25	0	Sheet piling, Excavation, ELS, Pipe Laying, Backfillin
31	18-Aug-25	22-Sep-25	0	Sheet piling, Excavation, ELS, Pipe Laying, Bac
31	23-Sep-25	31-Oct-25	О	Sheet piling, Excavation, ELS, Pipe Laying,
21	17-Nov-26	10-Dec-26	0	
21	17-Nov-26	10-Dec-26	0	-ttttttttttttt-
181	22-Jul-26	27-Feb-27	0	
57	22-Jul-26	25-Sep-26	О	Sheet piling,
31	28-Sep-26	04-Nov-26	0	il i
31	05-Nov-26	10-Dec-26	О	illigit in the control of the contro
31	11-Dec-26	19-Jan-27	О	-ttttttttttttt-
31	11-Dec-26	19-Jan-27	О	
31	20-Jan-27	27-Feb-27	0	
31	20-Jan-27	27-Feb-27	О	
310	01-Nov-25	16-Nov-26	0	
31	01-Nov-25	06-Dec-25	0	Sheet piling, Excavation, ELS, Pipe Layi
31	08-Dec-25	15-Jan-26	О	Sheet piling, Excavation, ELS, Pipe L
31	16-Jan-26	24-Feb-26	О	Sheet piling, Excavation, ELS, Pi
31	25-Feb-26	01-Apr-26	О	⊨ Sheet piling, Excaγation, ELS
31	02-Apr-26	12-May-26	О	Sheet piling, Excavation, I
31	13-May-26	18-Jun-26	0	□□ Sheet piling, Excavation
31	20-Jun-26	27-Jul-26	0	□ Sheet piling, Excav
31	28-Jul-26	01-Sep-26	0	□□ \$heet piling, E>
31	02-Sep-26	09-Oct-26	0	 Sheet piling
31	10-Oct-26	16-Nov-26	0	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
78	23-Jan-27	10-Apr-27	1	╼╫╼╌╫╼╌╫╼╌╫╼╌╫╼╌╫╼╌╫╼╌╫╼╌╫╼╌╫╼╌╫╼╌╫╼╌╫╼╌
45	23-Jan-27	08-Mar-27	4	
45	23-Jan-27	08-Mar-27	4	
28	28-Feb-27	27-Mar-27	1	
30	09-Mar-27	07-Apr-27	4	
30	09-Mar-27	07-Apr-27	4	
		11 05 15		Date Revision Checked Approve
		14 of 15		12-Dec-22 First Programme

28-Mar-27

Activity ID

Activity Name

Connection to existing for DN750

First Programme

10-Apr-27

Total Float

SVV-1C-2030 Connection to existing for DIN/50	14 28-IVIAR-27 1U-Apr-27 1		
Actual Work Summary	15 of 15	Date Revision	Checked Appro
Remaining Work		12-Dec-22 First Programme	
Critical Remaining Work			



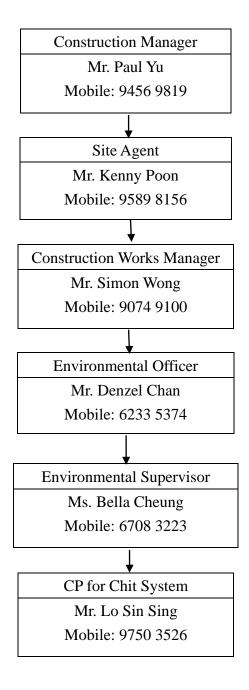


Contract: 21/WSD/21 Relocation of Diamond Hill Fresh Water and Salt Water Reservoirs to

Caverns

Subject: Organization Chart for Waste Management Plan

Date: ____04 July 2023_____



^{*} COMPETENT PERSON (CP) for Chit System to be full-time on site during the entire process of soil disposal and responsible to handle the documentation related to the Chit System



APPENDIX 25.03 TO PARTICULAR SPECIFICATION

Sample of CHIT

	入帳票編號: Chit No.: 選擇「✓」—個部門設施: Tick (✓) One Prescribed Facility:	人帳票編號: Chit Ne.: 選擇「✓」一個計明設施: Tick (✓) One Prescribed Facility: 堆填區	香港法例第354章廢物處讚條例 廢物處資(建築廢物處置收費)規例 Waste Disposal Ordinance (Chapter 354) Waste Disposal (Charges for Disposal of Construction Waste) Regulation 載運入帳票 CHIT
	Outlying Islands Transfer Facilities 中陸號碼 Vehicle Registration Mark:	Outlying Islands Transfer Facilities 中學院區 Vehicle Registration Mark:	車牌號碼: Vehicle Registration Mark:
- 5	使用日期: Date of Use:	使用日期: Date of Use:	何效期至: Valid Until:
	簽發人: Issued by: 建築廢物產生地點: Construction Waste Generated Site:	簽設人: issued by: 根戶名梅: Name of the Account-holder:	企業、物産生产。 Constr. tion V aste Coverated Site: 「「「記載」を表現している。
199279			Name of the Account-holder:
ш	板与編號: Account No.:	嵌戶編號: Account No.: 乙部份: 由廢物運輸商保留 Part B: retained by Waste Hauler	EDD Chilifogneting and Development Department Departme

APPENDIX 25.02 TO PARTICULAR SPECIFICATION

Sample of Daily Record Summary (DRS)

e of disposal						•			
posar ground	(s) designated in the Con-	tract or directed by the	Architect/Eng	ineer 合約指定或	建築師/工程的	乖指示接收設施: (a) (b)			
proved altern	ative disposal grounds 另	可接受的接收設施_				Others 其它			
Vehicle gistration mark 中籍登記號	Approx. vol (e.g. Full/Three Quarter/Half/One quarter) 大約承載量(例如全、 3/4、半、1/4)	C&D materials type (e.g. inert or non-inert) 建築廢料種類 (例如惰性 或非惰性)	Disposal ground 接收設施	Signature & Name of the Contractor's Designated person before departure 於離開地盤前,承建商的指定人仕姓名及	Departure time from *Site 離開地盤時 問	and the Contractor ¹ 於離開地盤前或其它經承建商與建	真正接收設	Arrival time at disposal ground 抵達接收改施 時間	Remarks 備注:
		<u> </u>							
		Part 1 ² 單部					4	Part 2 ³	乙部
		Sub	mitted by 呈交	:					on
		Sig	nature 簽名:			250	细胞的指定人位	UE Z	
		Dat	x 日期:						
Received by 接收:			[Name and signature of the Architect/Engineer's staff] ***********************************						
		Pos	t 職位:		-	XE2	esiy arenyin e	2 / SKIRI 12/X 38/12	
		Dat	ic & Time 日期及	時間:					
V	ehicle stration nark 再登記號	Approx. vol (e.g. Full/Three Quarter/Half/One quarter) 大約承載量(例如全、	Full/Three Quarter/Half/One quarter) 大約承載量(例如全、 3/4、半、1/4) Part 1 ² 甲率 Sut Sig Date Received type (e.g. inert or non-inert) 建築廢料種類(例如竹性 或非惰性)	Approx. vol (e.g. Full/Three Quarter/Half/One quarter) 大約承載量(例如全、 3/4、半、1/4) Part 1 ² 甲鄉 Submitted by 呈交 Signature 签名: Date 日期: Received by 拯收: Post 職位:	Approx. vol (e.g. Full/Three Quarter/Half/One quarter) 大約承載量(例如全、 3/4、半、1/4) Part 1²甲部 Submitted by 星交: Signature & Name of the Contractor's Designated person before departure 於離開地整前,承建商的指定人仕姓名及签名	Approx. vol (e.g. Full/Three Quarter/Half/One quarter) 大約承載量(例如全、 3/4、半、1/4) Part 1²甲率 Submitted by 呈交: Signature & Name of the Contractor's Designated person before departure 於離開地盤時 同日 Disposal ground 接收設施 Disposal ground 接收設施 Disposal ground 接收設施 Disposal ground 接收设施 Name of the Contractor's Designated person before departure 於離開地盤時,承建商的指定人仕姓名及 签名 Part 1²甲率 Submitted by 呈交: Signature 签名: Date 日期: Received by 接收:	Signature & name of the Name of the Contractor's Designated person before departure or other time as agreed between the Architect/Engineer's supervisory of the stration nark (例如作性 或非常性) Part 1 ² 甲率 Submitted by 呈交: Signature & Name of the Contractor's Designated person before departure or other time as agreed between the Architect/Engineer's Representative and the Contractor' 於離開地盤設 前,承建商的指定人仕姓名及 签名 Part 1 ² 甲率 Submitted by 呈交: Signature & name of the Architect/Engineer's Representative and the Contractor' 於離開地盤時 前,承建商的指定人仕姓名及 签名 Submitted by 呈交: Signature 卷 name of the Architect/Engineer's Representative and the Contractor' 於離開地盤時 河上程師性性 可能 (例如是 文字) 不是師性性人可能的時間、起藥師 /工程師性性人員姓名及簽名 Part 1 ² 甲率 Submitted by 呈交: Signature 签名: Date 日期: Received by 接收: Post 職位:	Part 1 ² 甲寧 Name of the Contractor's Designated departure beers on before departure beers on before departure beers on before departure beers on before departure or other time as agreed between the Architect/Engineer's supervisory staff before departure or other time from *Site #Rip *Tælen** *Rip *Tælen**	Part 1 ² 甲經 Part 2 ³ Name of Contractor's Designated Pers 所述時代記述的表表表表表表表表表表表表表表表表表表表表表表表表表表表表表表表表表表表表

² Part 1 甲部- The Contractor shall complete Part 1 in duplicate and a copy should be kept by the Architect's/Engineer's Representative. 承建商填寫甲部兩份,副本由建築師/工程師代表持有

³ Part 2 乙部- The Contractor shall complete Part 2 and submit the whole Summary to the Architect/Engineer's Representative within 1 working day after the records are posted at the EPD web-site. 承建商填寫乙部及將整份運載記錄攝要於記錄上載在環境保護署網頁後1個工作天內皇交給建築師/工程師代表

^{*}Delete "Site" and substitute "Sites" for term contracts. 定期合約將" Site" 删去及以"Sites"代替

Contract No. 21/WSD/21
Relocation of Diamond Hill Fresh Water and Salt Water Reservoirs to Caverns
Waste Management Plan
Appendix H – Sample of Disposal Delivery Form (DDF) of Alternative Disposal Ground
Appendix II – Sample of Disposar Derivery Form (DDF) of Atternative Disposar Oround

Sample of Disposal Delivery Form (DDF) of Alternative Disposal Ground

甲部分:由物料來源地的營運商保留 Part A: Retained by JV at Departure Site

Part B: To be retained by the Reception Site

參考編號 Ref. No.: 21WSD21-

00001

Contract No.: 21/WSD/21 - Relocation of Diamond Hill Fresh Water and Salt Water **Service Reservoirs to Caverns**

搬遷鑽石山食水及海水配水庫往岩洞

運載記錄票

Disposal Delivery Form

使用日期		
Date of Use:		
離開時間		
Departure Time:		
車牌號碼		
Vehicle Registration Mark:		
物料來源地	21/WSD/21 - Relocation of Diamond Hill Fresh Water and	Salt Water
Location of Source:	Service Reservoirs to Caverns	
物料接收地	Tapbo Environmental Limited (德寶)	
Location of Reception Site:		
「✓」適合的選項: Tick (✓) the appropriate: 負載量 Loading: 物料類別 Material Type:	□ 1/4 □ 1/2 □ 3/4 □滿載 Full 泥 Soil / 石 Rock	
物料來源地簽發人		
Issued by (Location of Source	e):	
	(簽名 Contractor Sign) / (RSS Sign)	
物料接收方簽收		
Received by (Location of Received		
	(簽名 Sign)	
甲部分: 物料接收方簽收後三個工 Part A: To return to the Location of	C作天交回物料來源地 f Source after signed by the Reception Site within 3 working days	
乙部分: 物料接收方保留		001

乙部分:由物料接收地的營運商保留 Part B: Retained by JV at Reception Site

乙部分: 物料接收方保留

Part B: To be retained by the Reception Site

參考編號 Ref. No.: 21WSD21-00001

00001

Contract No.: 21/WSD/21 - Relocation of Diamond Hill Fresh Water and Salt Water **Service Reservoirs to Caverns**

搬遷鑽石山食水及海水配水庫往岩洞

運載記錄票

Disposal Delivery Form

使用日期	
Date of Use:	
離開時間	
Departure Time:	
車牌號碼	-
Vehicle Registration Mark:	
物料來源地	21/WSD/21 - Relocation of Diamond Hill Fresh Water and Salt Water
Location of Source:	Service Reservoirs to Caverns
物料接收地	Tapbo Environmental Limited (德寶)
Location of Reception Site:	
「✔」適合的選項:	
Tick (\checkmark) the appropriate:	
負載量	
Loading:	1/4 1/2 3/4滿載 Full
物料類別	
Material Type:	泥 Soil / 石 Rock
###\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ 	
物料來源地簽發人	
Issued by (Location of Source)	:
物料接收方簽收	(競石 Contractor Sign) / (KSS Sign)
1751 1354 1545 1544 154	ntion).
Received by (Location of Rece	ption): (簽名 Sign)
	(然口 3611 /
甲部分: 物料接收方簽收後三個工	作天交回物料來源地
	Source after signed by the Reception Site within 3 working days