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**Appendix A**

**Construction Programme**



Activity ID	Activity Name	Orig Dur	Rem Dur	Start	Finish	Gantt Chart											
						December 19			January 20			February 20			March 21		
						18	25	01	08	15	22	29	05	12	19	26	02
K-PA-GSP-9270	Method Statement for revised construction sequence of Ventilation Adit 2 for Zone 1 CH6+185 to CH6+220	18	18	31-Dec-16	17-Jan-17	Method Statement for revised construction sequence of Ventilation Adit 2 for Zone 1 CH6+185 to CH6+220											
K-PA-GSP-9280	Engineer's comments and approval	28	28	18-Jan-17	14-Feb-17	Engineer's comments and approval											
<b>Temporary Utility Diversion Works</b>		<b>183</b>	<b>99</b>	<b>05-Sep-16 A</b>	<b>06-May-17</b>												
<b>Temporary Diversion for Watermain Works</b>		<b>72</b>	<b>21</b>	<b>31-Oct-16 A</b>	<b>25-Jan-17</b>												
<b>Laying Proposed (Fresh) Watermain</b>		<b>72</b>	<b>21</b>	<b>31-Oct-16 A</b>	<b>25-Jan-17</b>												
K-PA-TUD-1100	Trench excavation for DN600 MS & DI fresh watermain at subway B & zone 1	15	9	31-Oct-16 A	11-Jan-17	Trench excavation for DN600 MS & DI fresh watermain at subway B & zone 1											
K-PA-TUD-1120	Laying DN600 MS & DI fresh watermain at subway B & zone 1	20	11	21-Nov-16 A	13-Jan-17	Laying DN600 MS & DI fresh watermain at subway B & zone 1											
K-PA-TUD-1150	DN600 DI connected (X1 and X2)	0	0		25-Jan-17	◆ DN600 DI connected (X1 and X2)											
K-PA-TUD-1170	DN600 DI connected (X3)	0	0		25-Jan-17	◆ DN600 DI connected (X3)											
K-PA-TUD-2050	DN450 DI connected (X4)	0	0		25-Jan-17	◆ DN450 DI connected (X4)											
<b>Laying Proposed (Salt) Watermain</b>		<b>72</b>	<b>17</b>	<b>31-Oct-16 A</b>	<b>25-Jan-17</b>												
K-PA-TUD-1200	Trench excavation for DN300 MS salt watermain at subway B & zone 1	18	5	31-Oct-16 A	11-Jan-17	Trench excavation for DN300 MS salt watermain at subway B & zone 1											
K-PA-TUD-1220	Laying DN300 MS salt watermain at subway B & zone 1	20	5	21-Nov-16 A	13-Jan-17	Laying DN300 MS salt watermain at subway B & zone 1											
K-PA-TUD-1250	Connection to DN300 DI (Y1)	0	0		25-Jan-17	◆ Connection to DN300 DI (Y1)											
K-PA-TUD-2250	Connection to DN300 DI (Y2 and Y3)	0	0		25-Jan-17	◆ Connection to DN300 DI (Y2 and Y3)											
<b>Temporary Diversion for Drainage Works</b>		<b>183</b>	<b>99</b>	<b>05-Sep-16 A</b>	<b>06-May-17</b>												
K-PA-TUD-2400	Diversion of 2100 storm drain at zone 4	60	23	05-Sep-16 A	27-Jan-17	Diversion of 2100 storm drain at zone 4											
K-PA-TUD-2500	Excavation and laying of DN600 MS pipe and manhole (N-CP-1) at zone 4 for HKCH connection	25	25	21-Mar-17	22-Apr-17												
K-PA-TUD-2600	Excavation and laying of DN300 MS pipe and manhole (FMH23-15D) at zone 4	70	70	08-Feb-17	06-May-17												
<b>Temporary Diversion for CLP Cable at CH6+560</b>		<b>84</b>	<b>84</b>	<b>07-Nov-16 A</b>	<b>13-Apr-17</b>												
K-PA-TUD-3405	Trench excavation area 5 for cable diversion by CLP at zone 4	21	3	07-Nov-16 A	04-Jan-17	Trench excavation area 5 for cable diversion by CLP at zone 4											
K-PA-TUD-3450	Erection of traffic decking and divert traffic back to original position	12	12	05-Jan-17	18-Jan-17	Erection of traffic decking and divert traffic back to original position											
K-PA-TUD-3550	Handover area 3 to CLP cable diversion at zone 4	0	0		18-Jan-17	◆ Handover area 3 to CLP cable diversion at zone 4											
K-PA-TUD-3555	Trench excavation area 3 for cable diversion by CLP at zone 4	27	27	19-Jan-17	22-Feb-17	Trench excavation area 3 for cable diversion by CLP at zone 4											
K-PA-TUD-3560	Handover area 4 to CLP cable diversion at zone 4	0	0		22-Feb-17	◆ Handover area 4 to CLP cable diversion at zone 4											
K-PA-TUD-3700	Trench excavation area 4 for cable diversion and CLP cable slewing works by CLP	42	42	23-Feb-17	13-Apr-17												
K-PA-TUD-3750	Fabrication and Erection temporary support to utilities at zone 4	14	14	23-Feb-17	10-Mar-17	Fabrication and Erection temporary support to utilities at zone 4											
<b>Temporary Diversion for Sewage Rising Main</b>		<b>62</b>	<b>62</b>	<b>04-Feb-17</b>	<b>21-Apr-17</b>												
K-PA-TUD-1500	Construction of 3xDN350 sewage rising main and manhole	28	28	16-Mar-17	21-Apr-17												
K-PA-TUD-1600	Construction of DN750 sewage pipe and manhole - stage 1	20	20	04-Feb-17	27-Feb-17	Construction of DN750 sewage pipe and manhole - stage 1											
K-PA-TUD-2750	Construction of DN450 sewerage pipe at zone 2 - stage 1	48	48	17-Feb-17	18-Apr-17												
<b>Temporary Diversion for Telecommunication Cable</b>		<b>18</b>	<b>18</b>	<b>04-Jan-17</b>	<b>24-Jan-17</b>												
K-PA-TUD-4000	Diversion of Fibre cable (PCCW)	18	18	04-Jan-17	24-Jan-17	Diversion of Fibre cable (PCCW)											
K-PA-TUD-4050	Diversion of Fibre optical cable (HGC)	18	18	04-Jan-17	24-Jan-17	Diversion of Fibre optical cable (HGC)											
<b>Temporary Traffic Management</b>		<b>265</b>	<b>112</b>	<b>31-Jul-16 A</b>	<b>21-Apr-17</b>												
<b>Temp Traffic Arrangement Schemes</b>		<b>265</b>	<b>112</b>	<b>31-Jul-16 A</b>	<b>21-Apr-17</b>												

Activity ID	Activity Name	Orig Dur	Rem Dur	Start	Finish	Number	January					February					March				
							19					20					21				
							18	25	01	08	15	22	29	05	12	19	26	05	12	19	26
K-PA-TTA-8100	Submission and approval of TTA schemes-TTA stage 2 for D-wall W/B at Zone 2	90	60	31-Jul-16 A	28-Feb-17		Submission and approval of TTA sche														
K-PA-TTA-8900	Submission and approval of TTA schemes-TTA stage 3 for re-construction of Cheung Yip Street	90	90	22-Jan-17	21-Apr-17																
<b>Interfacing Works</b>		<b>89</b>	<b>90</b>	<b>28-Nov-16 A</b>	<b>30-Mar-17</b>																
K-PA-INT-6020	Handover Area A for Towngas Lead-in and Sewerage Connection Works by CSSOJV	28	0	28-Nov-16 A	31-Dec-16		Handover Area A for Towngas Lead-in and Sewerage Connection Works by CSSOJV														
K-PA-INT-6030	Handover Area B1 for Telecom Lead-in Works by HKT and HGC	14	14	17-Mar-17	30-Mar-17																
K-PA-INT-6040	Handover Area B2 for Telecom Lead-in Works by HKT and HGC	15	15	10-Feb-17	24-Feb-17		Handover Area B2 for Telecom Lead-in Wo														
K-PA-INT-6050	Handover Area B3 for Towngas Lead-in and Sewerage Works by HKT and HGC	36	36	15-Jan-17	19-Feb-17		Handover Area B3 for Towngas Lead-in and Sewe														
K-PA-INT-6060	Handover Area C1 for CLP's Cable Lead-in Works by HKT and HGC	36	16	15-Dec-16 A	15-Jan-17		Handover Area C1 for CLP's Cable Lead-in Works by HKT and HGC														
<b>Materials Procurement (Major Materials)</b>		<b>900</b>	<b>613</b>	<b>01-Feb-16 A</b>	<b>04-Sep-18</b>																
<b>ELS struct / waling</b>		<b>360</b>	<b>300</b>	<b>10-Jun-16 A</b>	<b>26-Oct-17</b>																
K-PA-MP-1150	Manufacturing & delivery to site	360	300	10-Jun-16 A	26-Oct-17																
<b>Steel H-Pile</b>		<b>420</b>	<b>160</b>	<b>01-Feb-16 A</b>	<b>08-Jun-17</b>																
K-PA-MP-1250	Manufacturing & delivery to site	420	160	01-Feb-16 A	08-Jun-17																
<b>Chilled Water Pipes - DCS</b>		<b>580</b>	<b>580</b>	<b>02-Feb-17</b>	<b>04-Sep-18</b>																
K-PA-MP-1300	Order of chilled water pipes	0	0	02-Feb-17			◆ Order of chilled water pipes														
K-PA-MP-1350	Manufacturing & delivery to site	580	580	02-Feb-17	04-Sep-18																
<b>Preliminaries</b>		<b>1190</b>	<b>895</b>	<b>11-Mar-16 A</b>	<b>13-Jun-19</b>																
K-DR-PRE-1800	Submission of time-lapsed photographs and video	1190	895	11-Mar-16 A	13-Jun-19																
<b>Barge Loading Facilities</b>		<b>21</b>	<b>21</b>	<b>01-Feb-17</b>	<b>25-Feb-17</b>																
K-DR-PRE-1450	Setup of temporary barging point	21	21	01-Feb-17	24-Feb-17		Setup of temporary barging point														
K-DR-PRE-1480	Operation of the barging point	0	0	25-Feb-17			◆ Operation of the barging point														
<b>Instrumentation and Monitoring</b>		<b>414</b>	<b>235</b>	<b>19-Jul-16 A</b>	<b>22-Aug-17</b>																
<b>Eastbound Instrumentation and Monitoring</b>		<b>16</b>	<b>16</b>	<b>08-Mar-17</b>	<b>25-Mar-17</b>																
<b>Inclinometer (INC)</b>		<b>16</b>	<b>16</b>	<b>08-Mar-17</b>	<b>25-Mar-17</b>																
K-IM-INC-1330	Installation of INC at Zone 3	15	15	09-Mar-17	25-Mar-17		Install														
K-IM-INC-1340	Installation of INC at Zone 4	15	15	08-Mar-17	24-Mar-17		Install														
<b>Westbound Instrumentation and Monitoring</b>		<b>222</b>	<b>73</b>	<b>19-Jul-16 A</b>	<b>30-Mar-17</b>																
<b>Extensometer (EXT)</b>		<b>15</b>	<b>15</b>	<b>14-Feb-17</b>	<b>02-Mar-17</b>																
K-IM-EXT-1370	Installation of EXT at Zone 3	15	15	14-Feb-17	02-Mar-17		Installation of EXT at Zone 3														
<b>Piezometer/Standpipe (PZR)</b>		<b>179</b>	<b>30</b>	<b>19-Jul-16 A</b>	<b>08-Feb-17</b>																
K-IM-PZR-1360	Installation of PZR at Zone 2	10	10	25-Jan-17	08-Feb-17		Installation of PZR at Zone 2														
K-IM-PZR-1370	Installation of PZR at Zone 3	40	10	05-Aug-16 A	12-Jan-17		Installation of PZR at Zone 3														
K-IM-PZR-1380	Installation of PZR at Zone 4	40	10	19-Jul-16 A	12-Jan-17		Installation of PZR at Zone 4														
<b>Inclinometer (INC)</b>		<b>29</b>	<b>29</b>	<b>25-Feb-17</b>	<b>30-Mar-17</b>																
K-IM-INC-1370	Installation of INC at Zone 3	10	10	25-Feb-17	08-Mar-17		Installation of INC at Zone														
K-IM-INC-1380	Installation of INC at Zone 4	10	10	20-Mar-17	30-Mar-17																
<b>Crack Meters</b>		<b>10</b>	<b>10</b>	<b>16-Mar-17</b>	<b>25-Mar-17</b>																
K-IM-CRM-1010	Installation of Crack Meters at HKCH	10	10	16-Mar-17	25-Mar-17		Install														









