

Appendix B

Construction Programme

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019				
							Mar	Apr	May	Jun	
HY2017/10 - Works Programme Three Month Rolling Programme 20-Mar-19											
Contract Dates											
Key Dates											
KD01	KD01 - Toll Control Bldg & TCSS Provision	0	0%	0		29-Apr-19*					
KD04A	KD4A - C&ED & FSD Substructure, Boundary Wall, ELS Removal	0	0%	0		30-Mar-19*					
Portion Access Dates											
P240	Access to Portion I (Day 329)	0	0%	0	31-Mar-19						
Portion Possession Dates											
P245	Possession to Portion Vc - (2 May 2019)	0	0%	0	02-May-19*						
P260	Possession to Portion XVIIa (Day 390)	0	100%	0	18-Mar-19 A						
P270	Possession to Portion XIX (Day 390)	0	0%	0	31-May-19						
P280	Possession to Portion XVIIb (Day 390)	0	100%	0	18-Mar-19 A						
P285	Possession to Portion XI (Day 390)	0	0%	0	31-May-19						
P290	Possession to Portion XXIa (Day 390)	0	0%	0	31-May-19						
P295	Possession to Portion IX (Day 390)	0	0%	0	31-May-19						
P300	Possession to Portion XXIIb (Day 390)	0	0%	0	31-May-19						
P305	Possession to Portion X (Day 390)	0	0%	0	31-May-19						
P315	Possession to Portion XXIc (Day 390)	0	0%	0	31-May-19						
Major Design Submission & Approval											
Toll Control Building											
MVAC System											
TCB-EMD1093	ER Review and Approval of AHU/PAU Static Pressure Calculation	13	100%	0	28-Feb-19 A	15-Mar-19 A					
TCB-EMD1095	Authorities Review and Comment of AHU/PAU Static Pressure Calculation	56	50%	28	23-Aug-18 A	25-Apr-19					
TCB-EMD1113	ER Review and Approval of MVAC Pump head calculation	13	100%	0	28-Feb-19 A	15-Mar-19 A					
TCB-EMD1115	Authorities Review and Comment of MVAC Pump head calculation	56	50%	28	23-Aug-18 A	25-Apr-19					
TCB-EMD1135	Authorities Review and Comment of Mechanical Ventilation Capacity Calculation	56	50%	28	10-Jul-18 A	25-Apr-19					
Electrical System											
TCB-EMD1013	ER Review and Approval of UPS and Battery Capacity Calculations	13	100%	0	23-Feb-19 A	15-Mar-19 A					
TCB-EMD1015	Authorities Review and Comment of UPS and Battery Capacity Calculations	56	50%	28	22-Aug-18 A	25-Apr-19					
TCB-EMD1032	Preparation and Resubmission of Electrical Loading Demand Calculation	26	0%	26	06-Oct-18 A	23-Apr-19					
TCB-EMD1033	ER Review and Approval of Electrical Loading Demand Calculation	13	0%	13	24-Apr-19	09-May-19					
TCB-EMD1035	Authorities Review and Comment of Electrical Loading Demand Calculation	56	25%	42	16-Aug-18 A	13-May-19					
TCB-EMD1055	Authorities Review and Comment of Generator Calculation	56	50%	28	15-Aug-18 A	25-Apr-19					
TCB-EMD1305	Submission of System Design of PV System	0	0%	0	20-Mar-19*						
TCB-EMD1315	ER Review and Comment of System Design of PV System	26	0%	26	20-Mar-19	23-Apr-19					
TCB-EMD1325	Preparation and Resubmission of System Design of PV System	26	0%	26	24-Apr-19	24-May-19					
TCB-EMD1335	ER Review and Approval of System Design of PV System	13	0%	13	25-May-19	10-Jun-19					
TCB-EMD1345	Authorities Review and Comment of PV System	56	0%	56	20-Mar-19	29-May-19					
Fire Service System											
TCB-EMD1175	Authorities Review and Comment of FS Pump Head Calculation	56	50%	28	01-Aug-18 A	25-Apr-19					
TCB-EMD1195	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	50%	28	14-Aug-18 A	25-Apr-19					
TCB-EMD1215	Authorities Review and Comment of FM200 System Design Calculation	56	50%	28	13-Aug-18 A	25-Apr-19					
Plumbing & Drainage System											
TCB-EMD1235	Authorities Review and Comment of Pump Head Calculation	56	50%	28	07-Aug-18 A	25-Apr-19					
TCB-EMD1255	Authorities Review and Comment of Pressure Vessel Calculation	56	50%	28	07-Aug-18 A	25-Apr-19					
TCB-EMD1273	ER Review and Approval of Hot water system capacity calculation	13	50%	7	11-Jan-19 A	27-Mar-19					
TCB-EMD1275	Authorities Review and Comment of Hot water system capacity calculation	56	50%	28	07-Aug-18 A	25-Apr-19					
TCB-EMD1395	Authorities Review and Comment of Drainage Sump Pumps and Pump Pits Calculation	56	50%	28	23-Jul-18 A	25-Apr-19					

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 1/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019				
							Mar	Apr	May	Jun	
Lift System											
TCB-EMD1295	Authorities Review and Comment of System Design for Lift system	56	50%	28	12-Sep-18 A	25-Apr-19					
Administration Building											
MVAC System											
ADB-EMD1013	ER Review and Approval of AC Cooling Capacity Calculation	13	100%	0	28-Feb-19 A	07-Mar-19 A					
ADB-EMD1015	Authorities Review and Comment of AC Cooling Capacity Calculation	56	50%	28	17-Aug-18 A	25-Apr-19					
ADB-EMD1033	ER Review and Approval of AHU/PAU Static Pressure Calculation	13	100%	0	28-Feb-19 A	15-Mar-19 A					
ADB-EMD1035	Authorities Review and Comment of AHU/PAU Static Pressure Calculation	56	50%	28	08-Oct-18 A	25-Apr-19					
ADB-EMD1053	ER Review and Approval of Pump head calculation	13	100%	0	28-Feb-19 A	15-Mar-19 A					
ADB-EMD1055	Authorities Review and Comment of Pump head calculation	56	50%	28	07-Nov-18 A	25-Apr-19					
ADB-EMD1075	Authorities Review and Comment of Mechanical Ventilation Capacity Calculation	56	50%	28	17-Aug-18 A	25-Apr-19					
Electrical System											
ADB-EMD1093	ER Review and Approval of UPS and Battery Capacity Calculations	13	50%	7	23-Feb-19 A	27-Mar-19					
ADB-EMD1095	Authorities Review and Comment of UPS and Battery Capacity Calculations	56	50%	28	05-Sep-18 A	25-Apr-19					
ADB-EMD1112	Preparation and Resubmission of Electrical Loading Demand Calculation	26	0%	26	06-Oct-18 A	23-Apr-19					
ADB-EMD1113	ER Review and Approval of Electrical Loading Demand Calculation	13	0%	13	24-Apr-19	09-May-19					
ADB-EMD1115	Authorities Review and Comment of Electrical Loading Demand Calculation	56	25%	42	27-Aug-18 A	13-May-19					
ADB-EMD1135	Authorities Review and Comment of Generator Calculation	56	50%	28	09-Aug-18 A	25-Apr-19					
ADB-EMD1305	Submission of System Design of PV System	0	0%	0	20-Mar-19*						
ADB-EMD1315	ER Review and Comment of System Design of PV System	26	0%	26	20-Mar-19	23-Apr-19					
ADB-EMD1325	Preparation and Resubmission of System Design of PV System	26	0%	26	24-Apr-19	24-May-19					
ADB-EMD1335	ER Review and Approval of System Design of PV System	13	0%	13	25-May-19	10-Jun-19					
ADB-EMD1345	Authorities Review and Comment of System Design of PV System	56	0%	56	20-Mar-19	29-May-19					
Fire Service System											
ADB-EMD1155	Authorities Review and Comment of FS Pump Head Calculation	56	50%	28	13-Aug-18 A	25-Apr-19					
ADB-EMD1175	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	50%	28	13-Aug-18 A	25-Apr-19					
ADB-EMD1195	Authorities Review and Comment of FM200 System Design Calculation	56	50%	28	13-Aug-18 A	25-Apr-19					
Plumbing & Drainage System											
ADB-EMD1215	Authorities Review and Comment of Pump Head Calculation	56	50%	28	25-Aug-18 A	25-Apr-19					
ADB-EMD1235	Authorities Review and Comment of Pressure Vessel Calculation	56	50%	28	25-Aug-18 A	25-Apr-19					
ADB-EMD1253	ER Review and Approval of Hot water system capacity calculation	13	50%	7	30-Jan-19 A	27-Mar-19					
ADB-EMD1255	Authorities Review and Comment of Hot water system capacity calculation	56	50%	28	25-Aug-18 A	25-Apr-19					
Lift System											
ADB-EMD1295	Authorities Review and Comment of System Design for Lift system	56	50%	28	12-Sep-18 A	25-Apr-19					
North Ventilation Building											
MVAC System											
NVB-EMD1013	ER Review and Approval of Staircase Pressurization System Calculation	13	50%	7	30-Nov-18 A	27-Mar-19					
NVB-EMD1035	Authorities Review and Comment of Mechanical Ventilation Capacity Calculation	56	50%	28	26-Sep-18 A	25-Apr-19					
Electrical System											
NVB-EMD1053	ER Review and Approval of HV Electrical Loading Calculation	13	50%	7	22-Mar-19 A	27-Mar-19					
NVB-EMD1055	Authorities Review and Comment of HV Electrical Loading Calculation	56	50%	28	26-Sep-18 A	25-Apr-19					
NVB-EMD1073	ER Review and Approval of UPS and Battery Capacity Calculations	13	50%	7	23-Feb-19 A	27-Mar-19					
NVB-EMD1075	Authorities Review and Comment of UPS and Battery Capacity Calculations	56	50%	28	17-Aug-18 A	25-Apr-19					
NVB-EMD1093	ER Review and Approval of Electrical Loading Demand Calculation	13	0%	13	16-Mar-19 A	03-Apr-19					
NVB-EMD1095	Authorities Review and Comment of Electrical Loading Demand Calculation	56	50%	28	03-Sep-18 A	25-Apr-19					
NVB-EMD1105	Mitigation - ER Approval to Prepare & Order without FSD Approval	4	33.33%	3	19-Mar-19 A	22-Mar-19					
NVB-EMD1115	Authorities Review and Comment of Generator Calculation	56	50%	28	17-Aug-18 A	25-Apr-19					
Fire Service System											

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 2/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019			
							Mar	Apr	May	Jun
NVB-EMD1135	Authorities Review and Comment of FS Pump Head Calculation	56	50%	28	01-Aug-18 A	25-Apr-19				
NVB-EMD1155	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	50%	28	14-Aug-18 A	25-Apr-19				
NVB-EMD1175	Authorities Review and Comment of FM200 System Design Calculation	28	50%	14	13-Aug-18 A	04-Apr-19				
Plumbing & Drainage System										
NVB-EMD1195	Authorities Review and Comment of Pump Head Calculation	56	50%	28	07-Aug-18 A	25-Apr-19				
NVB-EMD1215	Authorities Review and Comment of Pressure Vessel Calculation	56	50%	28	07-Aug-18 A	25-Apr-19				
NVB-EMD1305	Authorities Review and Comment of Drainage Sump Pumps and Pump Pits Calculation	56	50%	28	07-Aug-18 A	25-Apr-19				
Lift System										
NVB-EMD1255	Authorities Review and Comment of System Design for Lift system	56	50%	28	12-Sep-18 A	25-Apr-19				
Maintenance Depot										
MVAC System										
MD-EMD1013	ER Review and Approval of AC Cooling Capacity Calculation	13	100%	0	28-Feb-19 A	12-Mar-19 A				
MD-EMD1015	Authorities Review and Comment of AC Cooling Capacity Calculation	56	50%	28	17-Aug-18 A	25-Apr-19				
MD-EMD1035	Authorities Review and Comment of AHU/PAU Static Pressure Calculation	56	50%	28	10-Oct-18 A	25-Apr-19				
MD-EMD1055	Authorities Review and Comment of Mechanical Ventilation Capacity Calculation	56	50%	28	17-Aug-18 A	25-Apr-19				
Electrical System										
MD-EMD1072	Preparation and Resubmission of Electrical Loading Demand Calculation	26	0%	26	05-Jan-19 A	23-Apr-19				
MD-EMD1073	ER Review and Approval of Electrical Loading Demand Calculation	13	0%	13	24-Apr-19	09-May-19				
MD-EMD1075	Authorities Review and Comment of Electrical Loading Demand Calculation	56	25%	42	27-Aug-18 A	13-May-19				
Fire Service System										
MD-EMD1115	Authorities Review and Comment of FS Pump Head Calculation	56	50%	28	14-Aug-18 A	25-Apr-19				
MD-EMD1135	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	50%	28	14-Aug-18 A	25-Apr-19				
MD-EMD1155	Authorities Review and Comment of FM200 System Design Calculation	56	50%	28	14-Aug-18 A	25-Apr-19				
Plumbing & Drainage System										
MD-EMD1175	Authorities Review and Comment of Pump Head Calculation	56	50%	28	13-Aug-18 A	25-Apr-19				
MD-EMD1195	Authorities Review and Comment of Pressure Vessel Calculation	56	50%	28	13-Aug-18 A	25-Apr-19				
MD-EMD1215	Authorities Review and Comment of Drainage Sump Pumps and Pump Pits Calculation	56	50%	28	27-Aug-18 A	25-Apr-19				
Satellite Control Building										
MVAC System										
SCB-EMD1015	Authorities Review and Comment of AC Cooling Capacity Calculation	56	50%	28	17-Aug-18 A	25-Apr-19				
SCB-EMD1035	Authorities Review and Comment of Mechanical Ventilation Capacity Calculation	56	50%	28	17-Aug-18 A	25-Apr-19				
Electrical System										
SCB-EMD1053	ER Review and Approval of UPS and Battery Capacity Calculations	13	50%	7	23-Feb-19 A	27-Mar-19				
SCB-EMD1055	Authorities Review and Comment of UPS and Battery Capacity Calculations	56	50%	28	05-Sep-18 A	25-Apr-19				
SCB-EMD1072	Preparation and Resubmission of Electrical Loading Demand Calculation	26	0%	26	05-Feb-19 A	23-Apr-19				
SCB-EMD1073	ER Review and Approval of Electrical Loading Demand Calculation	13	0%	13	24-Apr-19	09-May-19				
SCB-EMD1075	Authorities Review and Comment of Electrical Loading Demand Calculation	56	25%	42	01-Nov-18 A	13-May-19				
SCB-EMD1095	Authorities Review and Comment of Generator Calculation	56	50%	28	27-Nov-18 A	25-Apr-19				
Fire Service System										
SCB-EMD1115	Authorities Review and Comment of FS Pump Head Calculation	56	50%	28	14-Aug-18 A	25-Apr-19				
SCB-EMD1135	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	50%	28	14-Aug-18 A	25-Apr-19				
SCB-EMD1155	Authorities Review and Comment of FM200 System Design Calculation	56	50%	28	14-Aug-18 A	25-Apr-19				
Plumbing & Drainage System										
SCB-EMD1285	Authorities Review and Comment of Pump Head Calculation	56	50%	28	27-Aug-18 A	25-Apr-19				
SCB-EMD1335	Authorities Review and Comment of Pressure Vessel Calculation	56	50%	28	27-Aug-18 A	25-Apr-19				
Lift System										
SCB-EMD1235	Authorities Review and Comment of System Design for Lift system	56	50%	28	12-Sep-18 A	25-Apr-19				
Costom & Excise Department Building										

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 3/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019			
							Mar	Apr	May	Jun
Electrical System										
CEDB-EMD1013	ER Review and Approval of UPS and Battery Capacity Calculations	13	50%	7	23-Feb-19 A	27-Mar-19				
CEDB-EMD1015	Authorities Review and Comment of UPS and Battery Capacity Calculations	56	50%	28	01-Nov-18 A	25-Apr-19				
CEDB-EMD1032	Preparation and Resubmission of Electrical Loading Demand Calculation	26	0%	26	23-Jan-19 A	23-Apr-19				
CEDB-EMD1033	ER Review and Approval of Electrical Loading Demand Calculation	13	0%	13	24-Apr-19	09-May-19				
CEDB-EMD1035	Authorities Review and Comment of Electrical Loading Demand Calculation	56	25%	42	01-Nov-18 A	13-May-19				
CEDB-EMD1055	Authorities Review and Comment of Generator Calculation	56	50%	28	27-Nov-18 A	25-Apr-19				
Fire Service System										
CEDB-EMD1075	Authorities Review and Comment of FS Pump Head Calculation	56	50%	28	21-Dec-18 A	25-Apr-19				
CEDB-EMD1095	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	50%	28	08-Oct-18 A	25-Apr-19				
Plumbing & Drainage System										
CEDB-EMD1135	Authorities Review and Comment of Pump Head Calculation	56	50%	28	07-Sep-18 A	25-Apr-19				
CEDB-EMD1155	Authorities Review and Comment of Pressure Vessel Calculation	56	50%	28	05-Sep-18 A	25-Apr-19				
Lift System										
CEDB-EMD1195	Authorities Review and Comment of System Design for Lift system	56	50%	28	12-Sep-18 A	25-Apr-19				
Fire Services Department Building										
Electrical System										
FSDB-EMD1013	ER Review and Approval of UPS and Battery Capacity Calculations	13	50%	7	23-Feb-19 A	27-Mar-19				
FSDB-EMD1015	Authorities Review and Comment of UPS and Battery Capacity Calculations	56	50%	28	01-Nov-18 A	25-Apr-19				
FSDB-EMD1032	Preparation and Resubmission of Electrical Loading Demand Calculation	26	0%	26	23-Jan-19 A	23-Apr-19				
FSDB-EMD1033	ER Review and Approval of Electrical Loading Demand Calculation	13	0%	13	24-Apr-19	09-May-19				
FSDB-EMD1035	Authorities Review and Comment of Electrical Loading Demand Calculation	56	25%	42	01-Nov-18 A	13-May-19				
FSDB-EMD1055	Authorities Review and Comment of Generator Calculation	56	50%	28	27-Nov-18 A	25-Apr-19				
Fire Service System										
FSDB-EMD1075	Authorities Review and Comment of FS Pump Head Calculation	56	50%	28	07-Sep-18 A	25-Apr-19				
FSDB-EMD1095	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	50%	28	07-Sep-18 A	25-Apr-19				
FSDB-EMD1205	Authorities Review and Comment of FM200 System Design Calculation	56	50%	28	07-Sep-18 A	25-Apr-19				
Plumbing & Drainage System										
FSDB-EMD1135	Authorities Review and Comment of Pump Head Calculation	56	50%	28	05-Sep-18 A	25-Apr-19				
FSDB-EMD1155	Authorities Review and Comment of Pressure Vessel Calculation	56	50%	28	05-Sep-18 A	25-Apr-19				
South Ventilation Building										
MVAC System										
SVB-EMD1012	Preparation and Resubmission of Staircase Pressurization System Calculation	26	50%	13	14-Feb-19 A	03-Apr-19				
SVB-EMD1013	ER Review and Approval of Staircase Pressurization System Calculation	13	0%	13	04-Apr-19	23-Apr-19				
SVB-EMD1015	Authorities Review and Comment of Staircase Pressurization System Calculation	56	50%	28	24-Jan-19 A	25-Apr-19				
SVB-EMD1035	Authorities Review and Comment of Mechanical Ventilation Capacity Calculation	56	50%	28	11-Sep-18 A	25-Apr-19				
Electrical System										
SVB-EMD1055	Authorities Review and Comment of HV Electrical Loading Calculation	56	50%	28	01-Nov-18 A	25-Apr-19				
SVB-EMD1073	ER Review and Approval of UPS and Battery Capacity Calculations	13	50%	7	23-Feb-19 A	27-Mar-19				
SVB-EMD1075	Authorities Review and Comment of UPS and Battery Capacity Calculations	56	50%	28	07-Dec-18 A	25-Apr-19				
SVB-EMD1093	ER Review and Approval of Electrical Loading Demand Calculation	13	0%	13	16-Mar-19 A	03-Apr-19				
SVB-EMD1095	Authorities Review and Comment of Electrical Loading Demand Calculation	56	0%	56	28-Nov-18 A	29-May-19				
SVB-EMD1115	Authorities Review and Comment of Generator Calculation	56	50%	28	07-Dec-18 A	25-Apr-19				
Fire Service System										
SVB-EMD1135	Authorities Review and Comment of FS Pump Head Calculation	56	50%	28	21-Dec-18 A	25-Apr-19				
SVB-EMD1155	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	50%	28	21-Dec-18 A	25-Apr-19				
SVB-EMD1175	Authorities Review and Comment of FM200 System Design Calculation	56	50%	28	30-Nov-18 A	25-Apr-19				
Plumbing & Drainage System										

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 4/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019				
							Mar	Apr	May	Jun	
SVB-EMD1213	ER Review and Approval of Pressure Vessel Calculation	13	50%	7	16-Jan-19 A	27-Mar-19					
Lift System											
SVB-EMD1255	Authorities Review and Comment of System Design for Lift system	56	50%	28	12-Sep-18 A	25-Apr-19					
Vehicular Underpass											
Fire Service System											
VU-EMD1022	Preparation and Resubmission of Foam system design calculation	26	50%	13	23-Nov-18 A	03-Apr-19					
VU-EMD1023	ER Review and Approval of Foam system design calculation	13	0%	13	04-Apr-19	23-Apr-19					
VU-EMD1025	Authorities Review and Comment of Foam system design calculation	56	50%	28	09-Aug-18 A	25-Apr-19					
Plumbing & Drainage System											
VU-EMD1030	Submission of Pump Head Calculation	0	0%	0	20-Mar-19*						
VU-EMD1040	ER Review and Comment of Pump Head Calculation	26	0%	26	20-Mar-19	23-Apr-19					
VU-EMD1042	Preparation and Resubmission of Pump Head Calculation	26	0%	26	24-Apr-19	24-May-19					
VU-EMD1043	ER Review and Approval of Pump Head Calculation	13	0%	13	25-May-19	10-Jun-19					
VU-EMD1045	Authorities Review and Comment of Pump Head Calculation	56	0%	56	20-Mar-19	29-May-19					
VU-EMD1050	Submission of Pressure Vessel Calculation	0	0%	0	20-Mar-19*						
VU-EMD1060	ER Review and Comment of Pressure Vessel Calculation	26	0%	26	20-Mar-19	23-Apr-19					
VU-EMD1062	Preparation and Resubmission of Pressure Vessel Calculation	26	0%	26	24-Apr-19	24-May-19					
VU-EMD1063	ER Review and Approval of Pressure Vessel Calculation	13	0%	13	25-May-19	10-Jun-19					
VU-EMD1065	Authorities Review and Comment of Pressure Vessel Calculation	56	0%	56	20-Mar-19	29-May-19					
VU-EMD1070	Submission of Drainage Sump Pumps and Pump Pits Calculation	0	0%	0	20-Mar-19*						
VU-EMD1080	ER Review and Comment of Drainage Sump Pumps and Pump Pits Calculation	26	0%	26	20-Mar-19	23-Apr-19					
VU-EMD1082	Preparation and Resubmission of Drainage Sump Pumps and Pump Pits Calculation	26	0%	26	24-Apr-19	24-May-19					
VU-EMD1083	ER Review and Approval of Drainage Sump Pumps and Pump Pits Calculation	13	0%	13	25-May-19	10-Jun-19					
VU-EMD1085	Authorities Review and Comment of Drainage Sump Pumps and Pump Pits Calculation	56	0%	56	20-Mar-19	29-May-19					
Tunnel Lighting System											
VU-EMD1145	Authorities Review and Comment of Design Proposal of Tunnel Lighting System (TLS)	56	50%	28	29-Aug-18 A	25-Apr-19					
VU-EMD1165	Authorities Review and Comment of Tunnel Lighting Lux Calculation	56	50%	28	31-Dec-18 A	25-Apr-19					
Tunnel											
Fire Service System											
TUN-EMD1032	Preparation and Resubmission of Foam system design calculation	26	50%	13	23-Nov-18 A	03-Apr-19					
TUN-EMD1033	ER Review and Approval of Foam system design calculation	13	0%	13	04-Apr-19	23-Apr-19					
TUN-EMD1035	Authorities Review and Comment of Foam system design calculation	56	50%	28	09-Aug-18 A	25-Apr-19					
TUN-EMD1110	ER Review and Comment of FS Pump Head Calculation	26	50%	13	11-Jan-19 A	03-Apr-19					
TUN-EMD1112	Preparation and Resubmission of FS Pump Head Calculation	26	0%	26	04-Apr-19	09-May-19					
TUN-EMD1113	ER Review and Approval of FS Pump Head Calculation	13	0%	13	10-May-19	24-May-19					
TUN-EMD1115	Authorities Review and Comment of FS Pump Head Calculation	56	50%	28	11-Jan-19 A	25-Apr-19					
TUN-EMD1130	ER Review and Comment of Sprinkler Pump Head Calculation	26	50%	13	25-Jan-19 A	03-Apr-19					
TUN-EMD1132	Preparation and Resubmission of Sprinkler Pump Head Calculation	26	0%	26	04-Apr-19	09-May-19					
TUN-EMD1133	ER Review and Approval of Sprinkler Pump Head Calculation	13	0%	13	10-May-19	24-May-19					
TUN-EMD1135	Authorities Review and Comment of Sprinkler Pump Head Calculation	56	50%	28	25-Jan-19 A	25-Apr-19					
Plumbing & Drainage System											
TUN-EMD1175	ER Review and Approval of Drainage Sump Pumps and Pump Pits Calculation	13	50%	7	28-Jan-19 A	27-Mar-19					
TUN-EMD1185	Authorities Review and Comment of Drainage Sump Pumps and Pump Pits Calculation	56	50%	28	27-Sep-18 A	25-Apr-19					
Tunnel Ventilation System											
TUN-EMD1225	ER Review and Approval of Air Quality Management system Design	13	50%	7	13-Sep-18 A	27-Mar-19					
Tunnel Lighting System											
TUN-EMD1075	Authorities Review and Comment of Design Proposal of Tunnel Lighting System (TLS)	56	50%	28	29-Aug-18 A	25-Apr-19					
TUN-EMD1095	Authorities Review and Comment of Tunnel Lighting Lux Calculation	56	50%	28	31-Dec-18 A	25-Apr-19					

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 5/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019				
							Mar	Apr	May	Jun	
Approach Road											
Road Lighting System											
AR-EMD1013	ER Review and Approval of Design Proposal of Road Lighting System	13	50%	7	09-Nov-18 A	27-Mar-19					
AR-EMD1015	HyD (LGT) Review and Approval of Design Proposal of Road Lighting System	28	0%	28	27-Mar-19	04-May-19					
AR-EMD1020	Submission of Design Proposal of Road Lighting Lux Calculation	0	0%	0	20-Mar-19*						
AR-EMD1030	ER Review and Comment of Road Lighting Lux Calculation	26	0%	26	20-Mar-19	23-Apr-19					
AR-EMD1032	Preparation and Resubmission of Road Lighting Lux Calculation	26	0%	26	24-Apr-19	24-May-19					
AR-EMD1033	ER Review and Approval of Road Lighting Lux Calculation	13	0%	13	25-May-19	10-Jun-19					
AR-EMD1034	AA and Authorities Review and Comment of Road Lighting Lux Calculation	56	0%	56	20-Mar-19	29-May-19					
AR-EMD1035	HyD (LGT) Review and Approval of Road Lighting Lux Calculation	28	0%	28	11-Jun-19	13-Jul-19					
CCMS, TCS and ELV System											
ELV-EMD1013	ER Review and Approval of System Design for Toll Control system	13	50%	7	20-Sep-18 A	27-Mar-19					
ELV-EMD1015	Authorities Review and Comment of System Design for Toll Control system	56	50%	28	27-Jul-18 A	25-Apr-19					
ELV-EMD1035	Authorities Review and Comment of System Design for CMCS	56	50%	28	26-Sep-18 A	25-Apr-19					
ELV-EMD1053	ER Review and Approval of System Design for other ELV systems	13	50%	7	02-Jan-19 A	27-Mar-19					
ELV-EMD1055	Authorities Review and Comment of System Design for other ELV systems	56	50%	28	02-Oct-18 A	25-Apr-19					
Major Material Submission & Approval											
GEN-EMM1020	Authorities Review and Comment of Technical Info. - Miscellaneous 1st fix Materials/ Equipment	28	50%	14	31-May-18 A	04-Apr-19					
GEN-EMM1050	Authorities Review and Comment of Technical Info. - Miscellaneous 2nd fix Materials/ Equipment	28	50%	14	20-May-18 A	04-Apr-19					
GEN-EMM1080	Authorities Review and Comment of Technical Info. - Miscellaneous final fix Materials/ Equipment	28	50%	14	02-Jul-18 A	04-Apr-19					
MVAC System											
MVAC-EMM1015	Authorities Review and Comment of Technical Info. - Chiller	56	50%	28	14-Jun-18 A	25-Apr-19					
MVAC-EMM1035	Authorities Review and Comment of Technical Info. - Chilled Water Pump	56	50%	28	12-Jun-18 A	25-Apr-19					
MVAC-EMM1055	Authorities Review and Comment of Technical Info. - Cooling Tower	56	50%	28	11-Jun-18 A	25-Apr-19					
MVAC-EMM1075	Authorities Review and Comment of Technical Info. - Computer Room AC (CRAC) Unit	56	50%	28	19-Jul-18 A	25-Apr-19					
MVAC-EMM1095	Authorities Review and Comment of Technical Info. - AHU & PAU	56	50%	28	10-Sep-18 A	25-Apr-19					
MVAC-EMM1113	ER Review and Approval of Technical Info. - Staircase Pressurization Fan	13	50%	7	26-Oct-18 A	27-Mar-19					
MVAC-EMM1115	Authorities Review and Comment of Technical Info. - Staircase Pressurization Fan	56	50%	28	17-Jul-18 A	25-Apr-19					
Electrical System											
ELE-EMM1055	Authorities Review and Comment of Technical Info. - Busduct	56	50%	28	27-Sep-18 A	25-Apr-19					
ELE-EMM1075	Authorities Review and Comment of Technical Info. - HV Cables	56	50%	28	17-Sep-18 A	25-Apr-19					
ELE-EMM1095	Authorities Review and Comment of Technical Info. - LV Cables	56	50%	28	25-May-18 A	25-Apr-19					
ELE-EMM1135	Authorities Review and Comment of Technical Info. - Generator	28	50%	14	01-Nov-18 A	04-Apr-19					
ELE-EMM1155	Authorities Review and Comment of Technical Info. - UPS and Battery	28	50%	14	26-Nov-18 A	04-Apr-19					
ELE-EMM1175	Authorities Review and Comment of Technical Info. - MCB & MCCB & Distribution Board	28	50%	14	04-Dec-18 A	04-Apr-19					
ELE-EMM1185	Submission of Technical Info. - PV System	0	0%	0	20-Mar-19*						
ELE-EMM1195	ER Review and Comment of Technical Info. - PV System	26	0%	26	20-Mar-19	23-Apr-19					
ELE-EMM1205	Preparation and Resubmission of Technical Info. - PV System	26	0%	26	24-Apr-19	24-May-19					
ELE-EMM1215	ER Review and Approval of Technical Info. - PV System	13	0%	13	25-May-19	10-Jun-19					
ELE-EMM1225	Authorities Review and Comment of Technical Info. - PV System	56	0%	56	20-Mar-19	29-May-19					
ELE-EMM1235	Submission of Technical Info. - Motor Control Centre	0	100%	0	25-Feb-19 A	25-Feb-19 A					
ELE-EMM1265	ER Review and Approval of Technical Info. - Motor Control Centre	8	50%	4	27-Nov-18 A	23-Mar-19					
ELE-EMM1275	Authorities Review and Comment of Technical Info. - Motor Control Centre	36	50%	18	26-Sep-18 A	10-Apr-19					
Fire Service System											
FS-EMM1015	Authorities Review and Comment of Technical Info. - FM200	56	50%	28	20-Aug-18 A	25-Apr-19					
FS-EMM1095	Authorities Review and Comment of Technical Info. - FR/ HR system	56	50%	28	24-Sep-18 A	25-Apr-19					
FS-EMM1115	Authorities Review and Comment of Technical Info. - Gas detection	56	50%	28	05-Dec-18 A	25-Apr-19					
FS-EMM1132	Preparation and Resubmission of Technical Info. - LMCP (FS)	26	100%	0	08-Mar-19 A	08-Mar-19 A					

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 6/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019			
							Mar	Apr	May	Jun
FS-EMM1133	ER Review and Approval of Technical Info. - LMCP (FS)	13	100%	0	08-Mar-19 A	08-Mar-19 A				
FS-EMM1135	Authorities Review and Comment of Technical Info. - LMCP (FS)	56	50%	28	11-Jan-19 A	25-Apr-19				
FS-EMM1145	Submission of Technical Info. - Foam Spray System	0	100%	0	25-Feb-19 A	25-Feb-19 A				
FS-EMM1185	Authorities Review and Comment of Technical Info. - Foam Spray System	56	50%	28	31-Oct-18 A	25-Apr-19				
Plumbing & Drainage System										
PD-EMM1013	ER Review and Approval of Technical Info. - Sump Pump	13	50%	7	27-Feb-19 A	27-Mar-19				
PD-EMM1015	Authorities Review and Comment of Technical Info. - Sump Pump	56	50%	28	25-Oct-18 A	25-Apr-19				
PD-EMM1032	Preparation and Resubmission of Technical Info. - Hot Water System	26	50%	13	09-Feb-19 A	03-Apr-19				
PD-EMM1033	ER Review and Approval of Technical Info. - Hot Water System	13	0%	13	04-Apr-19	23-Apr-19				
PD-EMM1035	Authorities Review and Comment of Technical Info. - Hot Water System	56	50%	28	11-Nov-18 A	25-Apr-19				
PD-EMM1052	Preparation and Resubmission of Technical Info. - LMCP (PD)	26	100%	0	08-Mar-19 A	08-Mar-19 A				
PD-EMM1053	ER Review and Approval of Technical Info. - LMCP (PD)	13	100%	0	08-Mar-19 A	08-Mar-19 A				
PD-EMM1055	Authorities Review and Comment of Technical Info. - LMCP (PD)	56	50%	28	16-Jan-19 A	25-Apr-19				
PD-EMM1073	ER Review and Approval of Technical Info. - Water Pump	13	100%	0	23-Feb-19 A	12-Mar-19 A				
PD-EMM1075	Authorities Review and Comment of Technical Info. - Water Pump	56	50%	28	28-Nov-18 A	25-Apr-19				
Lift System										
LT-EMM1013	ER Review and Approval of Technical Info. - Lift System	13	50%	7	11-Jan-19 A	27-Mar-19				
LT-EMM1020	Authorities Review and Comment of Technical Info. - Lift System	56	50%	28	12-Sep-18 A	25-Apr-19				
Tunnel Ventilation System										
TVS-EMM1015	Authorities Review and Comment of Technical Info. - Tunnel Ventilation Fan	56	50%	28	25-Jun-18 A	25-Apr-19				
TVS-EMM1035	Authorities Review and Comment of Technical Info. - Pressurization Fan	56	50%	28	19-Jul-18 A	25-Apr-19				
TVS-EMM1095	ER Review and Approval of Technical Info. - AQMS Equipment	13	50%	7	08-Dec-18 A	27-Mar-19				
TVS-EMM1105	Authorities Review and Comment of Technical Info. - AQMS Equipment	56	50%	28	29-Oct-18 A	25-Apr-19				
TVS-EMM1155	Authorities Review and Comment of Technical Info. - MFSD	56	50%	28	26-Jul-18 A	25-Apr-19				
Tunnel and Road Lighting System										
TRLS-EMM1015	Authorities Review and Comment of Technical Info. - Tunnel Lighting System	56	50%	28	15-Aug-18 A	25-Apr-19				
TRLS-EMM1035	Authorities Review and Comment of Technical Info. - Road Lighting Fitting	56	50%	28	09-Oct-18 A	25-Apr-19				
CCMS, TCS and ELV System										
ELV-EMM1013	ER Review and Approval of Technical Info. - CMCS Equipment	13	50%	7	22-Jan-19 A	27-Mar-19				
ELV-EMM1020	Authorities Review and Comment of Technical Info. - CMCS Equipment	56	50%	28	09-Oct-18 A	25-Apr-19				
ELV-EMM1040	ER Review and Approval of Technical Info. - TCS Equipment	13	50%	7	28-Dec-18 A	27-Mar-19				
ELV-EMM1050	Authorities Review and Comment of Technical Info. - TCS Equipment	56	50%	28	09-Oct-18 A	25-Apr-19				
ELV-EMM1072	Preparation and Resubmission of Technical Info. - other ELV Equipment	26	50%	13	30-Jan-19 A	03-Apr-19				
ELV-EMM1080	Authorities Review and Comment of Technical Info. - other ELV Equipment	56	50%	28	28-Dec-18 A	25-Apr-19				
Drawing Submission & Approval										
Toll Control Building										
Individual Shop Drawing										
TCB-ISD1070	Preparation and Resubmission of TCB ISD - 2nd batch	26	50%	13	12-Jan-19 A	03-Apr-19				
TCB-ISD1080	ER Review and Approval of TCB ISD - 2nd batch	13	50%	7	12-Jan-19 A	12-Apr-19				
TCB-ISD1090	Authorities Review and Comment of TCB ISD - 2nd batch	58	50%	29	16-Aug-18 A	26-Apr-19				
North Ventilation Building										
Individual Shop Drawing										
NVB-ISD1000	Submission of NVB ISD - 1st batch	24	94%	1	27-Jul-18 A	21-Mar-19				
NVB-ISD1010	ER Review and Comment of NVB ISD - 1st batch	16	50%	8	24-Aug-18 A	30-Mar-19				
NVB-ISD1020	Preparation and Resubmission of NVB ISD - 1st batch	16	50%	8	12-Sep-18 A	10-Apr-19				
NVB-ISD1030	ER Review and Approval of NVB ISD - 1st batch	9	50%	5	03-Oct-18 A	15-Apr-19				
NVB-ISD1050	Submission of NVB ISD - 2nd batch	7	92.99%	0	19-Sep-18 A	20-Mar-19				
NVB-ISD1060	ER Review and Comment of NVB ISD - 2nd batch	30	50%	15	28-Sep-18 A	08-Apr-19				

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 7/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019			
							Mar	Apr	May	Jun
NVB-ISD1070	Preparation and Resubmission of NVB ISD - 2nd batch	30	50%	15	05-Nov-18 A	29-Apr-19				
NVB-ISD1080	ER Review and Approval of NVB ISD - 2nd batch	15	50%	8	10-Dec-18 A	08-May-19				
NVB-ISD1090	Authorities Review and Approval of NVB ISD - 2nd batch	28	50%	14	16-Jun-18 A	06-Apr-19				
Administration Building										
Structural, Electrical & Mechanical Drawing										
ADB-SEM1020	Preparation and Resubmission of ADB SEM	12	100%	0	25-Feb-19 A	25-Feb-19 A				
ADB-SEM1030	ER Review and Approval of ADB SEM	7	100%	0	25-Feb-19 A	25-Feb-19 A				
Individual Shop Drawing										
ADB-ISD1020	Preparation and Resubmission of ADB ISD 1st batch	12	50%	6	15-Nov-18 A	26-Mar-19				
ADB-ISD1030	ER Review and Approval of ADB ISD 1st batch	7	0%	7	14-Mar-19 A	03-Apr-19				
ADB-ISD1070	Preparation and Resubmission of ADB ISD 2nd batch	12	0%	12	20-Mar-19	02-Apr-19				
ADB-ISD1080	ER Review and Approval of ADB ISD 2nd batch	7	0%	7	03-Apr-19	11-Apr-19				
ADB-ISD1090	Authorities Review and Comment of ADB ISD 2nd batch	28	50%	14	10-Aug-18 A	04-Apr-19				
Maintenance Depot										
Individual Shop Drawing										
MD-ISD1090	Authorities Review and Comment of MD ISD 2nd batch	28	50%	14	10-Aug-18 A	04-Apr-19				
Satellite Control Building										
Structural, Electrical & Mechanical Drawing										
SCB-SEM1010	ER Review and Comment of SCB SEM	12	0%	12	20-Mar-19	02-Apr-19				
SCB-SEM1020	Preparation and Resubmission of SCB SEM	12	0%	12	03-Apr-19	17-Apr-19				
SCB-SEM1030	ER Review and Approval of SCB SEM	7	0%	7	18-Apr-19	29-Apr-19				
Individual Shop Drawing										
SCB-ISD1020	Preparation and Resubmission of SCB ISD 1st batch	12	0%	12	20-Mar-19	02-Apr-19				
SCB-ISD1030	ER Review and Approval of SCB ISD 1st batch	7	0%	7	03-Apr-19	11-Apr-19				
SCB-ISD1040	Authorities Review and Comment of SCB ISD 1st batch	28	0%	28	10-Aug-18 A	25-Apr-19				
SCB-ISD1070	Preparation and Resubmission of SCB ISD 2nd batch	12	0%	12	20-Mar-19	02-Apr-19				
SCB-ISD1080	ER Review and Approval of SCB ISD 2nd batch	7	0%	7	03-Apr-19	11-Apr-19				
SCB-ISD1090	Authorities Review and Comment of SCB ISD 2nd batch	28	0%	28	10-Aug-18 A	25-Apr-19				
Custom & Excise Department Building										
Structural, Electrical & Mechanical Drawing										
CEDB-SEM1000	Submission of C&EDB SEM	0	0%	0	20-Mar-19*					
CEDB-SEM1010	ER Review and Comment of C&EDB SEM	12	0%	12	20-Mar-19	02-Apr-19				
CEDB-SEM1020	Preparation and Resubmission of C&EDB SEM	12	0%	12	03-Apr-19	17-Apr-19				
CEDB-SEM1030	ER Review and Approval of C&EDB SEM	7	0%	7	18-Apr-19	29-Apr-19				
Individual Shop Drawing										
CEDB-ISD1030	ER Review and Approval of C&EDB ISD 1st batch	7	0%	7	20-Mar-19	27-Mar-19				
CEDB-ISD1040	Authorities Review and Comment of C&EDB ISD 1st batch	28	0%	28	20-Mar-19	25-Apr-19				
CEDB-ISD1070	Preparation and Resubmission of C&EDB ISD 2nd batch	12	0%	12	20-Mar-19	02-Apr-19				
CEDB-ISD1080	ER Review and Approval of C&EDB ISD 2nd batch	7	0%	7	03-Apr-19	11-Apr-19				
CEDB-ISD1090	Authorities Review and Comment of C&EDB ISD 2nd batch	28	0%	28	03-Sep-18 A	25-Apr-19				
South Ventilation Building										
Individual Shop Drawing										
SVB-ISD1020	Preparation and Resubmission of SVB ISD 1st batch	12	0%	12	20-Mar-19	02-Apr-19				
SVB-ISD1030	ER Review and Approval of SVB ISD 1st batch	7	0%	7	03-Apr-19	11-Apr-19				
SVB-ISD1040	Authorities Review and Comment of SVB ISD 1st batch	28	0%	28	20-Sep-18 A	25-Apr-19				
SVB-ISD1070	Preparation and Resubmission of SVB ISD 2nd batch	12	0%	12	20-Mar-19	02-Apr-19				
SVB-ISD1080	ER Review and Approval of SVB ISD 2nd batch	7	0%	7	03-Apr-19	11-Apr-19				
Structural, Electrical & Mechanical Drawing										

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 8/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019			
							Mar	Apr	May	Jun
SVB-SEM2000	Submission of SVB SEM	0	0%	0	20-Mar-19*					
SVB-SEM2010	ER Review and Comment of SVB SEM	12	0%	12	20-Mar-19	02-Apr-19				
SVB-SEM2020	Preparation and Resubmission of SVB SEM	12	0%	12	03-Apr-19	17-Apr-19				
SVB-SEM2030	ER Review and Approval of SVB SEM	7	0%	7	18-Apr-19	29-Apr-19				
Tunnel										
Individual Shop Drawing										
TUN-ISD1000	Submission of Tunnel ISD 1st batch	6	85%	1	10-Aug-18 A	20-Mar-19				
TUN-ISD1010	ER Review and Comment of Tunnel ISD 1st batch	30	85%	5	10-Aug-18 A	26-Mar-19				
TUN-ISD1020	Preparation and Resubmission of Tunnel ISD 1st batch	30	85%	5	13-Sep-18 A	30-Mar-19				
TUN-ISD1030	ER Review and Approval of Tunnel ISD 1st batch	15	85%	2	13-Sep-18 A	03-Apr-19				
TUN-ISD1040	Authorities Review and Comment of Tunnel ISD 1st batch	28	50%	14	10-Aug-18 A	06-Apr-19				
TUN-ISD1060	ER Review and Comment of Tunnel ISD 2nd batch	30	85%	5	16-Aug-18 A	25-Mar-19				
TUN-ISD1070	Preparation and Resubmission of Tunnel ISD 2nd batch	30	85%	5	16-Feb-19 A	29-Mar-19				
TUN-ISD1080	ER Review and Approval of Tunnel ISD 2nd batch	15	85%	2	29-Aug-18 A	02-Apr-19				
TUN-ISD1090	Authorities Review and Comment of Tunnel ISD 2nd batch	28	50%	14	16-Aug-18 A	04-Apr-19				
TUN-ISD1110	ER Review and Comment of Tunnel ISD 3rd batch	30	0%	30	20-Mar-19	27-Apr-19				
TUN-ISD1120	Preparation and Resubmission of Tunnel ISD 3rd batch	30	0%	30	29-Apr-19	03-Jun-19				
TUN-ISD1130	ER Review and Approval of Tunnel ISD 3rd batch	15	0%	15	04-Jun-19	21-Jun-19				
TUN-ISD1140	Authorities Review and Comment of Tunnel ISD 3rd batch	28	0%	28	10-Dec-18 A	25-Apr-19				
TUN-ISD1160	ER Review and Comment of Tunnel ISD 4th batch	30	0%	30	20-Mar-19	27-Apr-19				
TUN-ISD1170	Preparation and Resubmission of Tunnel ISD 4th batch	30	0%	30	29-Apr-19	03-Jun-19				
TUN-ISD1180	ER Review and Approval of Tunnel ISD 4th batch	15	0%	15	04-Jun-19	21-Jun-19				
TUN-ISD1190	Authorities Review and Comment of Tunnel ISD 4th batch	28	0%	28	31-Oct-18 A	25-Apr-19				
Fire Services Department Building										
Structural, Electrical & Mechanical Drawing										
FSDB-SEM1020	Preparation and Resubmission of FSDB SEM	12	0%	12	20-Mar-19	02-Apr-19				
FSDB-SEM1030	ER Review and Approval of FSDB SEM	7	0%	7	03-Apr-19	11-Apr-19				
Individual Shop Drawing										
FSDB-ISD1020	Preparation and Resubmission of FSDB ISD 1st batch	12	0%	12	20-Mar-19	02-Apr-19				
FSDB-ISD1030	ER Review and Approval of FSDB ISD 1st batch	7	0%	7	03-Apr-19	11-Apr-19				
FSDB-ISD1040	Authorities Review and Comment of FSDB ISD 1st batch	28	50%	14	05-Sep-18 A	04-Apr-19				
FSDB-ISD1070	Preparation and Resubmission of FSDB ISD 2nd batch	12	0%	12	20-Mar-19	02-Apr-19				
FSDB-ISD1080	ER Review and Approval of FSDB ISD 2nd batch	7	0%	7	03-Apr-19	11-Apr-19				
FSDB-ISD1090	Authorities Review and Comment of FSDB ISD 2nd batch	28	50%	14	05-Sep-18 A	04-Apr-19				
Vehicular Underpass										
Individual Shop Drawing										
VU-ISD1020	Preparation and Resubmission of Vehicular Underpass ISD 1st batch	12	50%	6	05-Feb-19 A	26-Mar-19				
VU-ISD1030	ER Review and Approval of Vehicular Underpass ISD 1st batch	7	0%	7	27-Mar-19	03-Apr-19				
VU-ISD1070	Preparation and Resubmission of Vehicular Underpass ISD 2nd batch	12	50%	6	05-Feb-19 A	26-Mar-19				
VU-ISD1080	ER Review and Approval of Vehicular Underpass ISD 2nd batch	7	0%	7	27-Mar-19	03-Apr-19				
E&M Procurement										
General Procurement										
Electrical System										
GEN-PO1030	Place Order - MCB & MCCB and Distribution Board	12	0%	12	06-Apr-19	23-Apr-19				
Fire Service System										
GEN-PO1050	Place Order - AFA System	12	100%	0	28-Feb-19 A	28-Feb-19 A				
GEN-PO1060	Place Order - FR/ HR system	12	100%	0	28-Feb-19 A	28-Feb-19 A				
GEN-PO1070	Place Order - LMCP (FS)	12	0%	12	26-Apr-19	10-May-19				

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 9/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019				
							Mar	Apr	May	Jun	
							TUN-PO1040	Place Order - LHD system	12	0%	12
Plumbing & Drainage System											
GEN-PO1080	Place Order - LMCP (PD)	12	0%	12	26-Apr-19	10-May-19					
Design Related Procurement											
Toll Control Building											
Electrical System											
TCB-PO1170	Place Order - PV System	12	100%	0	20-Feb-19 A	20-Feb-19 A					
MVAC System											
TCB-PO1040	Place Order - AHU & PAU	12	0%	12	26-Apr-19	10-May-19					
Fire Service System											
TCB-PO1090	Place Order - FS Pump	12	100%	0	18-Mar-19 A	18-Mar-19 A					
Plumbing & Drainage System											
TCB-PO1100	Place Order - Hot Water System	12	0%	12	26-Apr-19	10-May-19					
TCB-PO1110	Place Order - Water Pump	12	50%	6	13-Mar-19 A	03-May-19					
TCB-PO1120	Place Order - Sump Pump	12	0%	12	26-Apr-19	10-May-19					
CCMS, TCS and ELV System											
TCB-PO1140	Place Order - CMCS Equipment	12	100%	0	21-Mar-19 A	21-Mar-19 A					
TCB-PO1150	Place Order - TCS Equipment	12	0%	12	26-Apr-19	10-May-19					
Administration Building											
MVAC System											
ADB-PO1040	Place Order - AHU & PAU	12	0%	12	26-Apr-19	10-May-19					
Fire Service System											
ADB-PO1090	Place Order - FS Pump	12	100%	0	18-Mar-19 A	18-Mar-19 A					
Plumbing & Drainage System											
ADB-PO1100	Place Order - Hot Water System	12	0%	12	26-Apr-19	10-May-19					
ADB-PO1120	Place Order - Water Pump	12	50%	6	13-Mar-19 A	03-May-19					
CCMS and ELV System											
ADB-PO1140	Place Order - CMCS Equipment	12	100%	0	21-Mar-19 A	21-Mar-19 A					
North Ventilation Building											
MVAC System											
NVB-PO1010	Place Order - Staircase Pressurization Fan	12	100%	0	19-Mar-19 A	19-Mar-19 A					
Fire Service System											
NVB-PO1080	Place Order - FS Pump	12	100%	0	18-Mar-19 A	18-Mar-19 A					
Plumbing & Drainage System											
NVB-PO1090	Place Order - Water Pump	12	50%	6	13-Mar-19 A	03-May-19					
NVB-PO1100	Place Order - Sump Pump	12	0%	12	26-Apr-19	10-May-19					
CCMS and ELV System											
NVB-PO1120	Place Order - CMCS Equipment	12	100%	0	21-Mar-19 A	21-Mar-19 A					
Maintenance Depot											
MVAC System											
MD-PO1000	Place Order - AHU & PAU	12	0%	12	26-Apr-19	10-May-19					
Fire Service System											
MD-PO1030	Place Order - FS Pump	12	100%	0	18-Mar-19 A	18-Mar-19 A					
Plumbing & Drainage System											
MD-PO1050	Place Order - Water Pump	12	50%	6	13-Mar-19 A	03-May-19					
MD-PO1060	Place Order - Sump Pump	12	0%	12	26-Apr-19	10-May-19					
CCMS and ELV System											
MD-PO1070	Place Order - CMCS Equipment	12	100%	0	21-Mar-19 A	21-Mar-19 A					

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 10/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019				
							Mar	Apr	May	Jun	
Satellite Control Building											
<i>Fire Service System</i>											
SCB-PO1040	Place Order - FS Pump	12	100%	0	18-Mar-19 A	18-Mar-19 A					
<i>Plumbing & Drainage System</i>											
SCB-PO1110	Place Order - Water Pump	12	50%	6	13-Mar-19 A	03-May-19	■		■		
<i>CCMS and ELV System</i>											
SCB-PO1090	Place Order - CMCS Equipment	12	100%	0	21-Mar-19 A	21-Mar-19 A					
Custom & Excise Department Building											
<i>MVAC System</i>											
CEDB-PO1000	Place Order - AHU & PAU	12	0%	12	26-Apr-19	10-May-19			■		
<i>Fire Service System</i>											
CEDB-PO1050	Place Order - FS Pump	12	100%	0	18-Mar-19 A	18-Mar-19 A					
<i>Plumbing & Drainage System</i>											
CEDB-PO1060	Place Order - Water Pump	12	50%	6	13-Mar-19 A	03-May-19	■		■		
<i>CCMS and ELV System</i>											
CEDB-PO1080	Place Order - CMCS Equipment	12	100%	0	21-Mar-19 A	21-Mar-19 A					
Fire Services Department Building											
<i>Fire Service System</i>											
FSDB-PO1030	Place Order - FS Pump	12	100%	0	18-Mar-19 A	18-Mar-19 A					
<i>Plumbing & Drainage System</i>											
FSDB-PO1050	Place Order - Water Pump	12	50%	6	13-Mar-19 A	03-May-19	■		■		
<i>CCMS and ELV System</i>											
FSDB-PO1070	Place Order - CMCS Equipment	12	100%	0	21-Mar-19 A	21-Mar-19 A					
South Ventilation Building											
<i>MVAC System</i>											
SVB-PO1010	Place Order - Staircase Pressurization Fan	12	100%	0	19-Mar-19 A	19-Mar-19 A					
<i>Fire Service System</i>											
SVB-PO1070	Place Order - FS Pump	12	100%	0	18-Mar-19 A	18-Mar-19 A					
<i>Plumbing & Drainage System</i>											
SVB-PO1090	Place Order - Water Pump	6	0%	6	26-Apr-19	03-May-19			■		
SVB-PO1140	Place Order - Sump Pump	12	0%	12	26-Apr-19	10-May-19			■		
<i>CCMS and ELV System</i>											
SVB-PO1120	Place Order - CMCS Equipment	12	100%	0	21-Mar-19 A	21-Mar-19 A					
Vehicular Underpass											
<i>Fire Service System</i>											
VU-PO1040	Place Order - Gas detection	12	0%	12	26-Apr-19	10-May-19			■		
<i>Plumbing & Drainage System</i>											
VU-PO1050	Place Order - Water Pump	12	0%	12	11-Jun-19	24-Jun-19				■	
VU-PO1060	Place Order - Sump Pump	12	0%	12	11-Jun-19	24-Jun-19				■	
<i>Tunnel Ventilation System</i>											
VU-PO1010	Place Order - Pressurization Fan	10	100%	0	19-Mar-19 A	19-Mar-19 A					
<i>CCMS and ELV System</i>											
VU-PO1070	Place Order - CMCS Equipment	12	100%	0	21-Mar-19 A	21-Mar-19 A					
Tunnel											
<i>Fire Service System</i>											
TUN-PO1015	Place Order - Gas detection	12	0%	12	26-Apr-19	10-May-19			■		
TUN-PO1020	Place Order - FS Pump	12	0%	12	25-May-19	08-Jun-19				■	
<i>Plumbing & Drainage System</i>											

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 11/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019			
							Mar	Apr	May	Jun
TUN-PO1100	Place Order - Sump Pump	12	0%	12	26-Apr-19	10-May-19				
Tunnel Ventilation System										
TUN-PO1110	Place Order - AQMS Equipment	12	100%	0	06-Mar-19 A	06-Mar-19 A				
CCMS and ELV System										
TUN-PO1080	Place Order - CMCS Equipment	12	100%	0	28-Feb-19 A	21-Mar-19 A				
Approach Road										
CCMS and ELV System										
AR-PO1010	Place Order - CMCS Equipment	12	100%	0	21-Mar-19 A	21-Mar-19 A				
E&M Manufacture & Delivery										
Toll Control Building										
TCB-MD1260	Manufacture & Delivery to HK - Miscellaneous 2nd fix Materials/ Equipment	45	50%	23	17-Nov-18 A	27-Apr-19				
TCB-MD1270	Manufacture & Delivery to HK - Miscellaneous final fix Materials/ Equipment	45	0%	45	05-Apr-19	19-May-19				
MVAC System										
TCB-MD1010	Manufacture & Delivery to HK - Chiller	150	15%	128	06-Mar-19 A	31-Aug-19				
TCB-MD1020	Manufacture & Delivery to HK - Chilled Water Pump	100	15%	85	06-Mar-19 A	19-Jul-19				
TCB-MD1030	Manufacture & Delivery to HK - Computer Room Air Conditioning (CRAC) Unit	120	0%	120	26-Apr-19	23-Aug-19				
TCB-MD1040	Manufacture & Delivery to HK - Cooling Tower (R/F)	100	40%	60	06-Mar-19 A	24-Jun-19				
TCB-MD1050	Manufacture & Delivery to HK - AHU & PAU	90	0%	90	11-May-19	08-Aug-19				
Electrical System										
TCB-MD1060	Manufacture - LV Switchboard	86	0%	86	14-May-19	07-Aug-19				
TCB-MD1070	Manufacture - Generator	118	0%	118	26-Apr-19	21-Aug-19				
TCB-MD1080	Manufacture - UPS and Battery	53	0%	53	26-Apr-19	17-Jun-19				
TCB-MD1082	FAT - UPS and Battery	10	0%	10	18-Jun-19	27-Jun-19				
TCB-MD1090	Manufacture & Delivery to HK - MCB & MCCB and Distribution Board	60	0%	60	04-May-19	02-Jul-19				
TCB-MD1100	Manufacture & Delivery to HK - LV Cables	120	10%	108	20-Nov-18 A	11-Aug-19				
TCB-MD1280	Manufacture & Delivery to HK - PV System Equipment	60	0%	60	11-Jun-19	09-Aug-19				
Fire Service System										
TCB-MD1150	Manufacture & Delivery to HK - FM200	150	20%	120	24-Dec-18 A	23-Aug-19				
TCB-MD1160	Manufacture & Delivery to HK - AFA System	100	20%	80	02-Mar-19 A	07-Jun-19				
TCB-MD1170	Manufacture & Delivery to HK - FS Pump	120	0%	120	19-Mar-19 A	23-Aug-19				
TCB-MD1180	Manufacture & Delivery to HK - FR/ HR system	90	0%	90	26-May-19	23-Aug-19				
TCB-MD1190	Manufacture & Delivery to HK - LMCP (FS)	60	0%	60	11-May-19	09-Jul-19				
Plumbing & Drainage System										
TCB-MD1110	Manufacture & Delivery to HK - Sump Pump	120	0%	120	11-May-19	07-Sep-19				
TCB-MD1120	Manufacture & Delivery to HK - Hot Water System	120	0%	120	11-May-19	07-Sep-19				
TCB-MD1130	Manufacture & Delivery to HK - LMCP (PD)	60	0%	60	11-May-19	09-Jul-19				
TCB-MD1140	Manufacture & Delivery to HK - Water Pump	90	0%	90	04-May-19	01-Aug-19				
Lift System										
TCB-MD1000	Manufacture & Delivery to HK - Lift System	150	0%	150	26-Apr-19	22-Sep-19				
CCMS, TCS and ELV System										
TCB-MD1200	Manufacture - CMCS Equipment	62	0%	62	26-Apr-19	26-Jun-19				
TCB-MD1210	Manufacture - TCS Equipment	62	0%	62	11-May-19	11-Jul-19				
TCB-MD1220	Manufacture & Delivery to HK - other ELV Equipment	83	0%	83	26-Apr-19	17-Jul-19				
Administration Building										
ADB-MD1280	Manufacture & Delivery to HK - Miscellaneous 1st fix Materials/ Equipment	45	50%	23	16-Jan-19 A	27-Apr-19				
ADB-MD1290	Manufacture & Delivery to HK - Miscellaneous 2nd fix Materials/ Equipment	45	0%	45	05-Apr-19	19-May-19				
ADB-MD1300	Manufacture & Delivery to HK - Miscellaneous final fix Materials/ Equipment	45	0%	45	05-Apr-19	19-May-19				
Electrical System										

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 12/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019			
							Mar	Apr	May	Jun
ADB-MD1060	Manufacture & Delivery to HK - Busduct	60	0%	60	26-Apr-19	24-Jun-19				
ADB-MD1070	Manufacture - LV Switchboard	86	0%	86	14-May-19	07-Aug-19				
ADB-MD1080	Manufacture - Generator	118	0%	118	26-Apr-19	21-Aug-19				
ADB-MD1090	Manufacture - UPS and Battery	53	0%	53	26-Apr-19	17-Jun-19				
ADB-MD1092	FAT - UPS and Battery	10	0%	10	18-Jun-19	27-Jun-19				
ADB-MD1100	Manufacture & Delivery to HK - MCB & MCCB and Distribution Board	60	0%	60	13-Jun-19	11-Aug-19				
ADB-MD1110	Manufacture & Delivery to HK - LV Cables	120	10%	108	20-Nov-18 A	11-Aug-19				
ADB-MD1310	Manufacture & Delivery to HK - PV System Equipment	60	0%	60	11-Jun-19	09-Aug-19				
MVAC System										
ADB-MD1010	Manufacture & Delivery to HK - Chiller	150	15%	128	06-Mar-19 A	31-Aug-19				
ADB-MD1020	Manufacture & Delivery to HK - Chilled Water Pump	100	15%	85	06-Mar-19 A	19-Jul-19				
ADB-MD1030	Manufacture & Delivery to HK - Computer Room Air Conditioning (CRAC) Unit	120	0%	120	26-Apr-19	23-Aug-19				
ADB-MD1040	Manufacture & Delivery to HK - AHU & PAU	90	0%	90	11-May-19	08-Aug-19				
ADB-MD1050	Manufacture & Delivery to HK - Cooling Tower	100	10%	90	06-Mar-19 A	24-Jul-19				
Fire Service System										
ADB-MD1160	Manufacture & Delivery to HK - FM200	150	40%	90	24-Dec-18 A	24-Jul-19				
ADB-MD1170	Manufacture & Delivery to HK - AFA System	100	10%	90	02-Mar-19 A	17-Jun-19				
ADB-MD1180	Manufacture & Delivery to HK - FS Pump	120	30%	84	19-Mar-19 A	18-Jul-19				
ADB-MD1190	Manufacture & Delivery to HK - FR/ HR system	90	0%	90	15-Jun-19	12-Sep-19				
ADB-MD1200	Manufacture & Delivery to HK - LMCP (FS)	60	0%	60	11-May-19	09-Jul-19				
Plumbing & Drainage System										
ADB-MD1130	Manufacture & Delivery to HK - Hot Water System	120	0%	120	11-May-19	07-Sep-19				
ADB-MD1140	Manufacture & Delivery to HK - LMCP (PD)	60	0%	60	11-May-19	09-Jul-19				
ADB-MD1150	Manufacture & Delivery to HK - Water Pump	90	0%	90	04-May-19	01-Aug-19				
CCMS and ELV System										
ADB-MD1210	Manufacture - CMCS Equipment	62	0%	62	26-Apr-19	26-Jun-19				
ADB-MD1220	Manufacture & Delivery to HK - other ELV Equipment	83	0%	83	26-Apr-19	17-Jul-19				
Lift System										
ADB-MD1000	Manufacture & Delivery to HK - Lift System	180	0%	180	26-Apr-19	22-Oct-19				
North Ventilation Building										
Electrical System										
NVB-MD1010	Manufacture - HV/LV Transformer	92	90%	9	17-Jan-19 A	05-May-19				
NVB-MD1014	Preparation and Resubmission of Special Type Test Procedure - HV/LV Transformer	26	100%	0	04-Mar-19 A	04-Mar-19 A				
NVB-MD1015	ER Review and Approve of Special Type Test Procedure - HV/LV Transformer	13	100%	0	04-Mar-19 A	04-Mar-19 A				
NVB-MD1016	FAT - HV/LV Transformer	14	0%	14	05-May-19	19-May-19				
NVB-MD1018	Shipping to HK - HV/LV Transformer	14	0%	14	19-May-19	02-Jun-19				
NVB-MD1020	Manufacture - HV Switchboard	92	80%	18	17-Jan-19 A	14-May-19				
NVB-MD1022	FAT - HV Switchboard	14	0%	14	14-May-19	28-May-19				
NVB-MD1025	Shipping to HK - HV Switchboard	14	0%	14	28-May-19	11-Jun-19				
NVB-MD1030	Manufacture - HV Cables	106	50%	53	05-Jan-19 A	17-Jun-19				
NVB-MD1032	FAT - HV Cables	2	0%	2	17-May-19	18-May-19				
NVB-MD1035	Shipping to HK - HV Cables	14	0%	14	18-Jun-19	01-Jul-19				
NVB-MD1040	Manufacture - LV Switchboard	86	0%	86	26-Apr-19	20-Jul-19				
NVB-MD1050	Manufacture - Generator	118	0%	118	26-Apr-19	21-Aug-19				
NVB-MD1060	Manufacture - UPS and Battery	53	0%	53	26-Apr-19	17-Jun-19				
NVB-MD1062	FAT - UPS and Battery	10	0%	10	18-Jun-19	27-Jun-19				
NVB-MD1070	Manufacture & Delivery to HK - MCB & MCCB and Distribution Board	60	0%	60	04-May-19	02-Jul-19				
NVB-MD1080	Manufacture & Delivery to HK - Busduct	60	50%	30	15-Feb-19 A	25-May-19				

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 13/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019			
							Mar	Apr	May	Jun
NVB-MD1090	Manufacture - LV Cables	106	50%	53	20-Nov-18 A	17-Jun-19				
NVB-MD1095	Shipping to HK - LV Cables	14	0%	14	18-Jun-19	01-Jul-19				
MVAC System										
NVB-MD1180	Manufacture - Tunnel Ventilation Fan	180	50%	90	29-Nov-18 A	24-Jul-19				
NVB-MD1190	FAT - Tunnel Ventilation Fan	15	0%	15	19-Jun-19	03-Jul-19				
NVB-MD1210	Manufacture & Delivery to HK - Staircase Pressurization Fan	60	0%	60	26-Apr-19	24-Jun-19				
Fire Service System										
NVB-MD1130	Manufacture & Delivery to HK - FM200	150	55%	68	24-Dec-18 A	02-Jul-19				
NVB-MD1140	Manufacture & Delivery to HK - AFA System	100	20%	80	02-Mar-19 A	07-Jun-19				
NVB-MD1150	Manufacture & Delivery to HK - FR/ HR system	90	0%	90	26-Apr-19	24-Jul-19				
NVB-MD1160	Manufacture & Delivery to HK - FS Pump	120	50%	60	19-Mar-19 A	24-Jun-19				
NVB-MD1170	Manufacture & Delivery to HK - LMCP (FS)	60	0%	60	11-May-19	09-Jul-19				
Plumbing & Drainage System										
NVB-MD1100	Manufacture & Delivery to HK - Sump Pump	120	0%	120	11-May-19	07-Sep-19				
NVB-MD1110	Manufacture & Delivery to HK - LMCP (PD)	60	0%	60	11-May-19	09-Jul-19				
NVB-MD1120	Manufacture & Delivery to HK - Water Pump	90	0%	90	04-May-19	01-Aug-19				
CCMS and ELV System										
NVB-MD1220	Manufacture - CMCS Equipment	62	0%	62	26-Apr-19	26-Jun-19				
NVB-MD1230	Manufacture - other ELV Equipment	62	0%	62	26-Apr-19	26-Jun-19				
Lift System										
NVB-MD1000	Manufacture & Delivery to HK - Lift System	180	0%	180	26-Apr-19	22-Oct-19				
Maintenance Depot										
MD-MD1155	Manufacture & Delivery to HK - Miscellaneous 1st fix Materials/ Equipment	45	50%	23	15-Feb-19 A	27-Apr-19				
MD-MD1165	Manufacture & Delivery to HK - Miscellaneous 2nd fix Materials/ Equipment	45	0%	45	05-Apr-19	19-May-19				
MD-MD1175	Manufacture & Delivery to HK - Miscellaneous final fix Materials/ Equipment	45	0%	45	05-Apr-19	19-May-19				
Electrical System										
MD-MD1010	Manufacture - Generator	118	0%	118	05-Apr-19	31-Jul-19				
MD-MD1020	Manufacture - LV Switchboard	86	0%	86	14-May-19	07-Aug-19				
MD-MD1040	Manufacture & Delivery to HK - LV Cables	120	10%	108	20-Nov-18 A	11-Aug-19				
MVAC System										
MD-MD1000	Manufacture & Delivery to HK - AHU & PAU	90	0%	90	11-May-19	08-Aug-19				
Fire Service System										
MD-MD1080	Manufacture & Delivery to HK - FM200	150	0%	150	26-Apr-19	22-Sep-19				
MD-MD1090	Manufacture & Delivery to HK - FS Pump	120	30%	84	19-Mar-19 A	18-Jul-19				
MD-MD1100	Manufacture & Delivery to HK - AFA System	100	0%	100	30-Apr-19	07-Aug-19				
CCMS and ELV System										
MD-MD1130	Manufacture - CMCS Equipment	62	0%	62	26-Apr-19	26-Jun-19				
MD-MD1140	Manufacture & Delivery to HK - other ELV Equipment	83	0%	83	26-Apr-19	17-Jul-19				
Plumbing & Drainage System										
MD-MD1050	Manufacture & Delivery to HK - Sump Pump	120	0%	120	11-May-19	07-Sep-19				
MD-MD1060	Manufacture & Delivery to HK - Water Pump	90	0%	90	04-May-19	01-Aug-19				
MD-MD1070	Manufacture & Delivery to HK - LMCP (PD)	60	0%	60	05-Jun-19	03-Aug-19				
Satellite Control Building										
SCB-MD1175	Manufacture & Delivery to HK - Miscellaneous 1st fix Materials/ Equipment	45	0%	45	07-Jun-19	21-Jul-19				
Electrical System										
SCB-MD1020	Manufacture - Generator	118	0%	118	26-Apr-19	21-Aug-19				
SCB-MD1030	Manufacture - UPS and Battery	53	0%	53	26-Apr-19	17-Jun-19				
SCB-MD1032	FAT - UPS and Battery	10	0%	10	18-Jun-19	27-Jun-19				

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 14/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019			
							Mar	Apr	May	Jun
SCB-MD1040	Manufacture - LV Switchboard	86	0%	86	14-May-19	07-Aug-19				
SCB-MD1060	Manufacture & Delivery to HK - LV Cables	120	10%	108	20-Nov-18 A	05-Oct-19				
MVAC System										
SCB-MD1010	Manufacture & Delivery to HK - Computer Room Air Conditioning (CRAC) Unit	120	0%	120	26-Apr-19	23-Aug-19				
Fire Service System										
SCB-MD1100	Manufacture & Delivery to HK - FM200	150	0%	150	03-May-19	29-Sep-19				
SCB-MD1110	Manufacture & Delivery to HK - FS Pump	120	0%	120	19-Mar-19 A	23-Aug-19				
CCMS and ELV System										
SCB-MD1160	Manufacture & Delivery to HK - other ELV Equipment	83	0%	83	24-May-19	14-Aug-19				
Lift System										
SCB-MD1000	Manufacture & Delivery to HK - Lift System	180	0%	180	26-Apr-19	22-Oct-19				
Custom & Excise Department Building										
CEDB-MD1195	Manufacture & Delivery to HK - Miscellaneous 1st fix Materials/ Equipment	45	0%	45	17-Jun-19	31-Jul-19				
Electrical System										
CEDB-MD1020	Manufacture - Generator	118	0%	118	26-Apr-19	21-Aug-19				
CEDB-MD1030	Manufacture - UPS and Battery	53	0%	53	26-Apr-19	17-Jun-19				
CEDB-MD1032	FAT - UPS and Battery	10	0%	10	18-Jun-19	27-Jun-19				
CEDB-MD1040	Manufacture - LV Switchboard	86	0%	86	14-May-19	07-Aug-19				
CEDB-MD1050	Manufacture & Delivery to HK - LV Cables	120	10%	108	20-Nov-18 A	05-Oct-19				
Fire Service System										
CEDB-MD1090	Manufacture & Delivery to HK - FM200	150	0%	150	26-Apr-19	22-Sep-19				
CEDB-MD1100	Manufacture & Delivery to HK - FS Pump	120	0%	120	19-Mar-19 A	23-Aug-19				
Plumbing & Drainage System										
CEDB-MD1080	Manufacture & Delivery to HK - Water Pump	90	0%	90	03-Jun-19	31-Aug-19				
CCMS and ELV System										
CEDB-MD1180	Manufacture & Delivery to HK - other ELV Equipment	83	0%	83	04-May-19	25-Jul-19				
Lift System										
CEDB-MD1000	Manufacture & Delivery to HK - Lift System	180	0%	180	22-May-19	17-Nov-19				
Fire Services Department Building										
FSDB-MD1155	Manufacture & Delivery to HK - Miscellaneous 1st fix Materials/ Equipment	45	0%	45	13-May-19	26-Jun-19				
FSDB-MD1165	Manufacture & Delivery to HK - Miscellaneous 2nd fix Materials/ Equipment	45	0%	45	09-Jun-19	23-Jul-19				
FSDB-MD1175	Manufacture & Delivery to HK - Miscellaneous final fix Materials/ Equipment	45	0%	45	08-Jun-19	22-Jul-19				
Electrical System										
FSDB-MD1000	Manufacture - Generator	118	0%	118	26-Apr-19	21-Aug-19				
FSDB-MD1010	Manufacture - UPS and Battery	53	0%	53	26-Apr-19	17-Jun-19				
FSDB-MD1012	FAT - UPS and Battery	10	0%	10	18-Jun-19	27-Jun-19				
FSDB-MD1020	Manufacture - LV Switchboard	86	0%	86	14-May-19	07-Aug-19				
FSDB-MD1030	Manufacture & Delivery to HK - LV Cables	120	10%	108	20-Nov-18 A	25-Oct-19				
Fire Service System										
FSDB-MD1090	Manufacture & Delivery to HK - FS Pump	120	0%	120	19-Mar-19 A	09-Nov-19				
FSDB-MD1185	Manufacture & Delivery to HK - FM200	150	0%	150	12-Jun-19	08-Nov-19				
Plumbing & Drainage System										
FSDB-MD1060	Manufacture & Delivery to HK - Water Pump	90	0%	90	24-May-19	21-Aug-19				
CCMS and ELV System										
FSDB-MD1140	Manufacture & Delivery to HK - other ELV Equipment	83	0%	83	03-Jun-19	24-Aug-19				
South Ventilation Building										
Electrical System										
SVB-MD1000	Manufacture - Generator	118	0%	118	26-Apr-19	21-Aug-19				

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 15/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019			
							Mar	Apr	May	Jun
SVB-MD1010	Manufacture - UPS and Battery	53	0%	53	26-Apr-19	17-Jun-19				
SVB-MD1012	FAT - UPS and Battery	10	0%	10	18-Jun-19	27-Jun-19				
SVB-MD1020	Manufacture - HV/LV Transformer	92	0%	92	26-Apr-19	26-Jul-19				
SVB-MD1030	Manufacture - LV Switchboard	86	0%	86	30-May-19	23-Aug-19				
SVB-MD1040	Manufacture - HV Switchboard	92	0%	92	26-Apr-19	26-Jul-19				
SVB-MD1070	Manufacture & Delivery to HK - LV Cables	120	10%	108	20-Nov-18 A	24-Dec-19				
MVAC System										
SVB-MD1180	Manufacture & Delivery to HK - Staircase Pressurization Fan	60	0%	60	26-Apr-19	24-Jun-19				
Fire Service System										
SVB-MD1120	Manufacture & Delivery to HK - FM200	150	0%	150	26-Apr-19	22-Sep-19				
SVB-MD1130	Manufacture & Delivery to HK - FS Pump	120	0%	120	19-Mar-19 A	10-Sep-19				
Plumbing & Drainage System										
SVB-MD1100	Manufacture & Delivery to HK - Water Pump	90	0%	90	04-May-19	01-Aug-19				
SVB-MD1255	Manufacture & Delivery to HK - Sump Pump	120	0%	120	11-May-19	07-Sep-19				
Lift System										
SVB-MD1190	Manufacture & Delivery to HK - Lift System	180	0%	180	22-May-19	17-Nov-19				
Vehicular Underpass										
VU-MD1000	Manufacture & Delivery to HK - Pressurization Fan	90	0%	90	26-Apr-19	24-Jul-19				
VU-MD1010	Manufacture - Jet Fan	62	10%	56	19-Dec-18 A	14-May-19				
VU-MD1012	FAT - Jet Fan	14	0%	14	14-May-19	28-May-19				
VU-MD1015	Shipping to HK- Jet Fan	14	0%	14	28-May-19	11-Jun-19				
VU-MD1020	Manufacture & Delivery to HK - Tunnel Lighting System	100	60%	40	20-Dec-18 A	04-Jun-19				
VU-MD1055	Manufacture & Delivery to HK - Foam Spray System	90	0%	90	20-Mar-19	10-Jul-19				
VU-MD1060	Manufacture - CMCS Equipment	62	0%	62	26-Apr-19	26-Jun-19				
VU-MD1070	Manufacture & Delivery to HK - other ELV Equipment	90	0%	90	26-Apr-19	24-Jul-19				
Tunnel										
TUN-MD1001	FAT - Tunnel Lighting System (1st Batch)	10	0%	10	26-Apr-19	05-May-19				
TUN-MD1002	Shipping to HK - Tunnel Lighting System (1st Batch)	14	0%	14	06-May-19	19-May-19				
TUN-MD1003	Manufacture - Tunnel Lighting System (2nd Batch)	66	70%	20	28-Jan-19 A	15-May-19				
TUN-MD1004	FAT - Tunnel Lighting System (2nd Batch)	10	0%	10	15-May-19	25-May-19				
TUN-MD1005	Shipping to HK - Tunnel Lighting System (2nd Batch)	14	0%	14	25-May-19	08-Jun-19				
TUN-MD1006	Manufacture - Tunnel Lighting System (3rd Batch)	66	0%	66	26-Apr-19	30-Jun-19				
TUN-MD1009	Manufacture - Tunnel Lighting System (4th Batch)	66	0%	66	26-Apr-19	30-Jun-19				
TUN-MD1015	Manufacture & Delivery to HK - Gas detection	90	0%	90	11-May-19	08-Aug-19				
TUN-MD1017	Manufacture & Delivery to HK - Foam Spray System	90	0%	90	20-Mar-19	10-Jul-19				
TUN-MD1020	Manufacture & Delivery to HK - LHD system	90	0%	90	03-May-19	31-Jul-19				
TUN-MD1030	Manufacture & Delivery to HK - FS Pump	120	0%	120	09-Jun-19	06-Oct-19				
TUN-MD1040	Manufacture - CMCS Equipment	62	0%	62	26-Apr-19	26-Jun-19				
TUN-MD1050	Manufacture & Delivery to HK - other ELV Equipment	90	0%	90	26-Apr-19	24-Jul-19				
TUN-MD1060	Manufacture & Delivery to HK - Sump Pump	120	0%	120	11-May-19	07-Sep-19				
TUN-MD1100	Manufacture - MFSD	78	10%	70	10-Jan-19 A	05-Jul-19				
Approach Road										
AR-MD1010	Manufacture - CMCS Equipment	62	0%	62	26-Apr-19	26-Jun-19				
AR-MD1020	Manufacture & Delivery to HK - other ELV Equipment	83	0%	83	26-Apr-19	17-Jul-19				
Tunnel Cladding										
CL-D1050	Manufacture and Delivery (1st Batch)	89	64.04%	32	25-Dec-18 A	21-Apr-19				
Method Statements										
Tunnel Cladding										

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 16/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019				
							Mar	Apr	May	Jun	
MS1290	Prepare & Submit MS for Tunnel Cladding	24	70.83%	7	28-Jan-19 A	27-Mar-19					
MS1300	ER Approval of MS for Tunnel Cladding	12	0%	12	28-Mar-19	11-Apr-19					
Key Date 4A - FSD Building Substructure, Boundary Wall, and C&ED Building Substructure											
FSD Building Substructure											
FSD155	Excavation/Trim Pile Head	12	50%	6	15-Feb-19 A	26-Mar-19					
FSD160	Building Substructure	22	0%	22	20-Mar-19	15-Apr-19					
FSD170	Removal of ELS	16	0%	16	16-Apr-19	08-May-19					
Boundary Wall for FSD Building											
FSD190	Boundary Wall for FSD Building (9 Bays)	58	75%	15	24-Dec-18 A	06-Apr-19					
FSD250	Backfilling	6	0%	6	06-Apr-19	13-Apr-19					
C&ED Building Substructure											
CED170	Loading Test & Proof Drilling	14	100%	0	20-Feb-19 A	05-Mar-19 A					
CED175	Excavation/Trim Pile Head	12	25%	9	06-Mar-19 A	29-Mar-19					
CED180	Building Substructure	15	5%	14	19-Mar-19 A	09-Apr-19					
CED190	Removal of ELS	6	0%	6	09-Apr-19	16-Apr-19					
CED200	KD4A Achieved	0	0%	0		08-May-19					
Key Date 1 - Toll Control Building (TCB) & TCSS Provision											
ABWF Works (for All)											
ATCB1000	Blockwork Walls	60	83.33%	10	28-Nov-18 A	01-Apr-19					
ATCB1010	Door and Window Frames	58	0%	58	20-Mar-19	31-May-19					
ATCB1020	ABWF Works to Plant Rooms G/F	81	80%	16	11-Dec-18 A	09-Apr-19					
ATCB1021	ABWF Works to Plant Rooms 1/F	81	60%	32	18-Dec-18 A	02-May-19					
ATCB1022	ABWF Works to Plant Rooms 2/F	81	50%	41	27-Dec-18 A	11-May-19					
ATCB1050	ABWF Works to Office and Corridors G/F	152	60%	61	11-Dec-18 A	04-Jun-19					
ATCB1051	ABWF Works to Office and Corridors 1/F	152	60%	61	27-Dec-18 A	04-Jun-19					
ATCB1052	ABWF Works to Office and Corridors 2/F	152	50%	76	11-Jan-19 A	22-Jun-19					
ATCB1080	ABWF Works to Toilets G/F	163	50%	82	18-Feb-19 A	29-Jun-19					
ATCB1081	ABWF Works to Toilets 1/F	163	50%	82	18-Feb-19 A	29-Jun-19					
ATCB1082	ABWF Works to Toilets 2/F	163	50%	82	18-Feb-19 A	15-Jul-19					
ATCB1110	Waterproofing and Roofing	47	0%	47	01-Apr-19	31-May-19					
ATCB1120	External Cladding and Wall Plastering	94	0%	94	01-Apr-19	27-Jul-19					
TCSS Provision											
TCB220	Cable Containment Installation to enable TCSS installation	90	16%	76	15-Feb-19 A	22-Jun-19					
Key Date 4 - E&M Works in Vehicular Underpass Area & TCSS Provision											
E&M Works											
VU110	Jet Fans installation	24	0%	24	11-Jun-19	10-Jul-19					
VU120	Cable containment Installation	24	0%	24	04-Apr-19	07-May-19					
VU130	Post Drill and Bracket Fixing	18	0%	18	08-May-19	28-May-19					
VU140	Dampers installation	24	0%	24	08-May-19	04-Jun-19					
VU150	Cabling Works	36	0%	36	29-May-19	11-Jul-19					
VU200	Possess Portion XI	0	0%	0	31-May-19						
Key Date 2 - Administration Building, Maintenance Depot, Kiosk N2, TCSS Provision											
Administration Building (ADB)											
Building Structure											
ADB160	Foundations and backfill	33	96.97%	1	10-Jan-19 A	20-Mar-19					
ADB180	Ground Floor	27	75%	7	31-Jan-19 A	27-Mar-19					
ADB190	First Floor	30	15%	26	13-Mar-19 A	23-Apr-19					
ADB200	Roof Slab	28	0%	28	12-Apr-19	20-May-19					

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 17/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019			
							Mar	Apr	May	Jun
ADB210	Top Roof	11	0%	11	20-May-19	01-Jun-19				
ABWF Works (for All)										
AADB1130	Blockwork Walls	25	0%	25	08-May-19	06-Jun-19				
AADB1140	Door and Window Frames	19	0%	19	08-May-19	30-May-19				
AADB1150	ABWF Works to Plant Rooms G/F	52	0%	52	15-May-19	17-Jul-19				
AADB1151	ABWF Works to Plant Rooms 1/F	52	0%	52	29-May-19	31-Jul-19				
AADB1160	ABWF Works to Office and Corridors G/F	126	0%	126	15-May-19	15-Oct-19				
AADB1161	ABWF Works to Office and Corridors 1/F	126	0%	126	29-May-19	29-Oct-19				
AADB1170	ABWF Works to Toilets G/F	132	0%	132	15-May-19	22-Oct-19				
AADB1171	ABWF Works to Toilets 1/F	132	0%	132	29-May-19	05-Nov-19				
AADB1180	Waterproofing and Roofing	48	0%	48	22-May-19	19-Jul-19				
AADB1190	External Cladding and Wall Plastering	98	0%	98	22-May-19	17-Sep-19				
Provision for TCSS Installation										
ADB250	Cable Containment Installation to enable TCSS installation	74	0%	74	23-May-19	20-Aug-19				
Maintenance Depot										
Depot Structure										
MD160	Ground Floor	39	74.36%	10	14-Jan-19 A	30-Mar-19				
MD170	Roof Slab	44	30%	31	13-Mar-19 A	29-Apr-19				
MD180	Top Roof	16	0%	16	06-Apr-19	29-Apr-19				
ABWF Works (for All)										
AMD1000	Blockwork Walls	16	0%	16	29-Apr-19	18-May-19				
AMD1010	Door and Window Frames	10	0%	10	02-May-19	14-May-19				
AMD1020	ABWF Works to Plant Rooms	58	0%	58	14-May-19	23-Jul-19				
AMD1030	ABWF Works to Office and Corridors	132	0%	132	14-May-19	21-Oct-19				
AMD1040	ABWF Works to Toilets	144	0%	144	17-May-19	07-Nov-19				
AMD1050	Waterproofing and Roofing	51	0%	51	11-May-19	12-Jul-19				
AMD1060	External Cladding and Wall Plastering	98	0%	98	11-May-19	05-Sep-19				
Provision for TCSS Installation										
MD210	Cable Containment Installation to enable TCSS installation	62	0%	62	17-Jun-19	29-Aug-19				
Kiosk N2										
N2-130	ABWF Works to enable TCSS installation	18	0%	18	20-Mar-19	10-Apr-19				
N2-140	Cable Containment Installation to enable TCSS installation	19	0%	19	11-Apr-19	07-May-19				
Key Date 6 - E&M Works for Administration Building, Maintenance Depot, North Vent Building, Kiosk N2										
ABWF Works for Administration Building (Structure Completed under KD2)										
EADB110	ADB First Floor Completed with Scaffolding Removed	0	0%	0		08-May-19				
E&M Works for Administration Building										
Installation										
ADB-EMGF0001	E&M cast-in Installation	42	69.05%	13	31-Jan-19 A	03-Apr-19				
G/F										
ADB-EMGF1000	ABWF Works ready for E&M Mobilization to General Areas - G/F	0	0%	0	18-May-19					
ADB-EMGF1040	ABWF Works ready for E&M Mobilization to 11kV Switch & Tx Room 1 - G/F	0	0%	0	01-Jun-19					
ADB-EMGF1050	E&M Installation - 11kV Switch & Tx Room 1 - G/F	46	0%	46	01-Jun-19	27-Jul-19				
ADB-EMGF1100	ABWF Works ready for E&M Mobilization to 11kV Switch & Tx Room 2 - G/F	0	0%	0	01-Jun-19					
ADB-EMGF1110	E&M Installation - 11kV Switch & Tx Room 2 - G/F	46	0%	46	01-Jun-19	27-Jul-19				
ADB-EMGF1160	ABWF Works ready for E&M Mobilization to LV Switch Room - G/F	0	0%	0	01-Jun-19					
ADB-EMGF1200	ABWF Works ready for E&M Mobilization to Generator Room & Fuel Tank Room - G/F	0	0%	0	01-Jun-19					
ADB-EMGF1230	ABWF Works ready for E&M Mobilization to MVAC Plant Rooms - G/F	0	0%	0	01-Jun-19					
ADB-EMGF1250	ABWF Works ready for E&M Mobilization to FS Plant Rooms - G/F	0	0%	0	01-Jun-19					

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 18/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019			
							Mar	Apr	May	Jun
ADB-EMGF1270	ABWF Works ready for E&M Mobilization to PD Plant Rooms - G/F	0	0%	0	01-Jun-19					◆
ADB-EMGF1290	ABWF Works ready for E&M Mobilization to ELV Plant Rooms - G/F	0	0%	0	01-Jun-19					◆
1/F										
ADB-EM1F1000	ABWF Works ready for E&M Mobilization to General Areas - 1/F	0	0%	0	13-Jun-19					◆
ADB-EM1F1050	ABWF Works ready for E&M Mobilization to MVAC Plant Rooms - 1/F	0	0%	0	17-Jun-19					◆
ADB-EM1F1070	ABWF Works ready for E&M Mobilization to Electrical Plant Rooms - 1/F	0	0%	0	17-Jun-19					◆
ADB-EM1F1090	ABWF Works ready for E&M Mobilization to ELV Plant Rooms - 1/F	0	0%	0	17-Jun-19					◆
E&M Works for Maintenance Depot										
Installation										
MD-EMGF0001	E&M cast-in Installation	30	69%	9	14-Jan-19 A	30-Mar-19				
G/F										
MD-EMGF1000	ABWF Works ready for E&M Mobilization to General Areas - G/F	0	0%	0	31-May-19					◆
MD-EMGF1010	E&M Installation - 1st fix - G/F	40	0%	40	31-May-19	19-Jul-19				
MD-EMGF1040	ABWF Works ready for E&M Mobilization to LV Switch Room - G/F	0	0%	0	01-Jun-19					◆
MD-EMGF1080	ABWF Works ready for E&M Mobilization to Generator & Fuel Tank Rooms - G/F	0	0%	0	19-Jun-19					◆
MD-EMGF1110	ABWF Works ready for E&M Mobilization to Electrical Plant Rooms - G/F	0	0%	0	19-Jun-19					◆
MD-EMGF1130	ABWF Works ready for E&M Mobilization to MVAC Plant Rooms - G/F	0	0%	0	19-Jun-19					◆
MD-EMGF1150	ABWF Works ready for E&M Mobilization to FS Plant Rooms - G/F	0	0%	0	19-Jun-19					◆
MD-EMGF1170	ABWF Works ready for E&M Mobilization to PD Plant Rooms - G/F	0	0%	0	19-Jun-19					◆
MD-EMGF1190	ABWF Works ready for E&M Mobilization to Elv Plant Rooms - G/F	0	0%	0	19-Jun-19					◆
E&M Works for North Ventilation Building										
Installation										
TVF Installation										
NB-NVB-TVF-1										
TVF-NVB1000	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0%	6	06-Apr-19	12-Apr-19				
TVF-NVB1010	Damper/Silencer and duct installation - Lower Attenuator Room (B1/F)	7	0%	7	09-May-19	16-May-19				
NB-NVB-TVF-2										
TVF-NVB1040	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0%	6	13-Apr-19	23-Apr-19				
TVF-NVB1050	Damper/Silencer and duct installation - Lower Attenuator Room (B1/F)	7	0%	7	17-May-19	24-May-19				
NB-NVB-TVF-3										
TVF-NVB1080	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0%	6	24-Apr-19	30-Apr-19				
TVF-NVB1090	Damper/Silencer and duct installation - Lower Attenuator Room (B1/F)	7	0%	7	25-May-19	01-Jun-19				
NB-NVB-TVF-4										
TVF-NVB1120	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0%	6	02-May-19	08-May-19				
TVF-NVB1130	Damper/Silencer and duct installation - Lower Attenuator Room (B1/F)	7	0%	7	03-Jun-19	11-Jun-19				
NB-NVB-TVF-5										
TVF-NVB1160	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0%	6	06-Apr-19	12-Apr-19				
TVF-NVB1170	Damper/Silencer and duct installation - Lower Attenuator Room (B1/F)	7	0%	7	23-May-19	30-May-19				
NB-NVB-TVF-6										
TVF-NVB1200	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0%	6	13-Apr-19	23-Apr-19				
TVF-NVB1210	Damper/Silencer and duct installation - Lower Attenuator Room (B1/F)	7	0%	7	31-May-19	08-Jun-19				
NB-NVB-TVF-7										
TVF-NVB1240	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0%	6	24-Apr-19	30-Apr-19				
TVF-NVB1250	Damper/Silencer and duct installation - Lower Attenuator Room (B1/F)	7	0%	7	10-Jun-19	17-Jun-19				
NB-NVB-TVF-8										
TVF-NVB1280	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0%	6	02-May-19	08-May-19				
TVF-NVB1290	Damper/Silencer and duct installation - Lower Attenuator Room (B1/F)	7	0%	7	18-Jun-19	25-Jun-19				
NB-NVB-TVF-9										

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 19/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019			
							Mar	Apr	May	Jun
TVF-NVB1320	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0%	6	09-May-19	15-May-19				
NB-NVB-TVF-10										
TVF-NVB1360	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0%	6	16-May-19	22-May-19				
SB-NVB-TVF-1										
TVF-NVB1400	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0%	6	06-Apr-19	12-Apr-19				
TVF-NVB1410	Damper/Silencer and duct installation - Lower Attenuator Room (B1/F)	7	0%	7	09-May-19	16-May-19				
SB-NVB-TVF-2										
TVF-NVB1440	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0%	6	13-Apr-19	23-Apr-19				
TVF-NVB1450	Damper/Silencer and duct installation - Lower Attenuator Room (B1/F)	7	0%	7	17-May-19	24-May-19				
SB-NVB-TVF-3										
TVF-NVB1480	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0%	6	24-Apr-19	30-Apr-19				
TVF-NVB1490	Damper/Silencer and duct installation - Lower Attenuator Room (B1/F)	7	0%	7	25-May-19	01-Jun-19				
SB-NVB-TVF-4										
TVF-NVB1520	Silencer, splitter and duct installation - Upper Attenuator Room (1/F)	6	0%	6	02-May-19	08-May-19				
TVF-NVB1530	Damper/Silencer and duct installation - Lower Attenuator Room (B1/F)	7	0%	7	03-Jun-19	11-Jun-19				
B2/F										
NVB-EMB21010	E&M Installation - 1st fix - B2/F	50	74%	13	21-Nov-18 A	24-Apr-19				
NVB-EMB21020	E&M Installation - 2nd fix - B2/F	50	48%	26	28-Nov-18 A	25-May-19				
NVB-EMB21030	E&M Installation - Final fix - B2/F	50	3%	49	24-Jan-19 A	03-Aug-19				
NVB-EMB21060	E&M Installation - Electrical Plant Rooms - B2/F	90	0%	90	06-Apr-19	26-Jul-19				
NVB-EMB21080	E&M Installation - MVAC Plant Rooms - B2/F	90	0%	90	06-Apr-19	26-Jul-19				
B1/F										
NVB-EMB11010	E&M Installation - 1st fix - B1/F	50	76%	12	19-Nov-18 A	23-Apr-19				
NVB-EMB11020	E&M Installation - 2nd fix - B1/F	50	46%	27	26-Nov-18 A	25-May-19				
NVB-EMB11030	E&M Installation - Final fix - B1/F	50	2%	49	24-Jan-19 A	24-Jul-19				
NVB-EMB11060	E&M Installation - Electrical Plant Rooms - B1/F	90	0%	90	06-Apr-19	26-Jul-19				
NVB-EMB11080	E&M Installation - MVAC Plant Rooms - B1/F	90	0%	90	06-Apr-19	26-Jul-19				
G/F										
NVB-EMGF1010	E&M Installation - 1st fix - G/F	50	75%	13	01-Aug-18 A	24-Apr-19				
NVB-EMGF1020	E&M Installation - 2nd fix - G/F	50	41%	30	08-Aug-18 A	09-Jul-19				
NVB-EMGF1030	E&M Installation - Final fix - G/F	50	3%	49	24-Jan-19 A	03-Sep-19				
NVB-EMGF1070	Installation by CLP - CLPP HV Switch Room - G/F	82	20%	66	14-Feb-19 A	27-Jun-19				
1/F										
NVB-EM1F1010	E&M Installation - 1st fix - 1/F	50	46%	27	03-Sep-18 A	11-May-19				
NVB-EM1F1020	E&M Installation - 2nd fix - 1/F	50	37%	32	10-Sep-18 A	08-Aug-19				
NVB-EM1F1030	E&M Installation - Final fix - 1/F	50	3%	49	31-Jan-19 A	05-Oct-19				
NVB-EM1F1240	E&M Installation - MVAC Plant Rooms - 1/F	90	0%	90	06-Apr-19	26-Jul-19				
2/F										
NVB-EM2F1010	E&M Installation - 1st fix - 2/F	50	74%	13	08-Oct-18 A	24-Apr-19				
NVB-EM2F1020	E&M Installation - 2nd fix - 2/F	50	43%	29	15-Oct-18 A	29-May-19				
NVB-EM2F1030	E&M Installation - Final fix - 2/F	50	3%	49	07-Feb-19 A	26-Jul-19				
Lift Installation (L01 & L02)										
NVB-LF1010	Access to lift shaft and lift machine room	0	0%	0	20-Mar-19					
Remaining E&M Works for Kiosk N2 (Structure Completed under KD2)										
EN2120	ABWF Works (Door, windows, tiles)	30	0%	30	20-Mar-19	27-Apr-19				
EN2130	E&M Works	31	0%	31	29-Apr-19	04-Jun-19				
EN2140	Testing & Commissioning	12	0%	12	05-Jun-19	19-Jun-19				

Key Date 3 - Satellite Control Building & TCS Provision

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 20/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019				
							Mar	Apr	May	Jun	
Building Structure											
SCB100	Possess Portion XVIIa	0	100%	0	18-Mar-19 A						
SCB110	Possess Portion XVIIb	0	100%	0	18-Mar-19 A						
SCB115	Excavation	12	0%	12	20-Mar-19	02-Apr-19					
SCB120	Foundations	12	0%	12	30-Apr-19	14-May-19					
SCB130	Ground Floor	12	0%	12	15-May-19	28-May-19					
SCB140	First Floor	12	0%	12	29-May-19	12-Jun-19					
SCB150	Lower Roof Slab	12	0%	12	13-Jun-19	26-Jun-19					
Key Date 5 - E&M Works for TCB, Toll Area, Kiosk N1, Underpass, Plant Rm, and Approach Roads											
Carpark Canopy											
ETCB150	Steelwork for Canopy Structure	90	0%	90	20-Mar-19	10-Jul-19					
E&M Works for TCB											
Installation											
Basement											
TCB-EM1000	ABWF Works ready for E&M Mobilization to Basement	0	0%	0	20-Mar-19						
TCB-EM1001	E&M Installation - 1st fix - Basement	60	0%	60	06-Apr-19	20-Jun-19					
G/F											
TCB-EMGF1010	E&M Installation - 1st fix - G/F	60	10%	54	15-Feb-19 A	13-Jun-19					
TCB-EMGF1070	Installation by CLP - CLP Tx Room - G/F	60	20%	48	14-Feb-19 A	16-Jul-19					
TCB-EMGF1100	ABWF Works ready for E&M Mobilization to LV Switch Room - G/F	0	0%	0	20-Mar-19						
TCB-EMGF1140	ABWF Works ready for E&M Mobilization to Generator & Fuel Tank Rooms - G/F	0	0%	0	20-Mar-19						
TCB-EMGF1170	ABWF Works ready for E&M Mobilization to Electrical Plant Rooms - G/F	0	0%	0	20-Mar-19						
TCB-EMGF1190	ABWF Works ready for E&M Mobilization to MVAC Plant Rooms - G/F	0	0%	0	20-Mar-19						
TCB-EMGF1210	ABWF Works ready for E&M Mobilization to FS Plant Rooms - G/F	0	0%	0	20-Mar-19						
TCB-EMGF1230	ABWF Works ready for E&M Mobilization to PD Plant Rooms - G/F	0	0%	0	20-Mar-19						
1/F											
TCB-EM1F1000	ABWF Works ready for E&M Mobilization to General Areas - 1/F	0	0%	0	08-May-19						
TCB-EM1F1010	E&M Installation - 1st fix - 1/F	60	0%	60	08-May-19	18-Jul-19					
TCB-EM1F1050	ABWF Works ready for E&M Mobilization to Electrical Plant Rooms - 1/F	0	0%	0	20-Mar-19						
TCB-EM1F1070	ABWF Works ready for E&M Mobilization to FS Plant Rooms - 1/F	0	0%	0	20-Mar-19						
TCB-EM1F1090	ABWF Works ready for E&M Mobilization to PD Plant Rooms - 1/F	0	0%	0	20-Mar-19						
2/F											
TCB-EM2F1000	ABWF Works ready for E&M Mobilization to General Areas - 2/F	0	0%	0	08-Jun-19						
TCB-EM2F1010	E&M Installation - 1st fix - 2/F	48	0%	48	08-Jun-19	03-Aug-19					
TCB-EM2F1050	ABWF Works ready for E&M Mobilization to Electrical Plant Rooms - 2/F	0	0%	0	02-Apr-19						
TCB-EM2F1070	ABWF Works ready for E&M Mobilization to MVAC Plant Rooms - 2/F	0	0%	0	02-Apr-19						
TCB-EM2F1090	ABWF Works ready for E&M Mobilization to Elv Plant Rooms - 2/F	0	0%	0	02-Apr-19						
Roof											
TCB-EMRF1000	ABWF Works ready for E&M Mobilization to Roof	0	0%	0	31-May-19						
Lift Installation (L01)											
TCB-LF1000	Access to lift shaft and lift machine room	0	0%	0	31-May-19						
Toll Area											
South Bound											
ETA120	Possess Portions IX, XIX, XX1a, XX1b	0	0%	0	31-May-19						
ETA130	Installation of South Bound Toll Booths	30	0%	30	31-May-19	06-Jul-19					
North Bound											
ETA190	Possess Portion XI	0	0%	0	31-May-19						
ETA200	Installation of North Bound Toll Booths	30	0%	30	31-May-19	06-Jul-19					

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 21/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019				
							Mar	Apr	May	Jun	
Kiosk N1											
EN120	Possess Portion IX	0	0%	0	31-May-19						◆
EN130	Structure	48	0%	48	31-May-19	27-Jul-19					
Plant Room											
E&M Works											
EPR120	Blockwork Wall & ABWF Works	90	60%	36	02-Nov-18 A	06-May-19					
EPR130	E&M Installation	90	10%	81	03-Jan-19 A	31-Jan-20					
Deck Void											
TD1, TD2, RB_W											
DV180	Possess Portions X, IX and XI	0	0%	0	31-May-19						◆
Bridge H1, G1, G2											
DV110	Possess Portions IX	0	0%	0	31-May-19						◆
DV120	Electrical Installation - Bridge H1	28	0%	28	31-May-19	04-Jul-19					
Approach Roads											
Under Portions IX, XI, XX											
AR120	Possess Portions IX and XI	0	0%	0	31-May-19						◆
AR130	Cabling works - Portion IX	45	0%	45	20-Mar-19	16-May-19					
AR133	Cabling works - Portion XI	45	0%	45	17-May-19	10-Jul-19					
AR140	Road lighting installation & termination - Portion IX	25	0%	25	18-Apr-19	21-May-19					
AR145	Road lighting installation & termination - Portion XI	25	0%	25	15-Jun-19	15-Jul-19					
Under Portion X											
AR170	Possess Portions X	0	0%	0	31-May-19						◆
AR174	Site Measurement	61	50%	31	12-Feb-19 A	29-Apr-19					
AR176	Underground Cable Duct Installation (by others)	61	0%	61	29-Apr-19	12-Jul-19					
Key Date 6B - E&M Works for South Vent Duct, Tunnel, and Approach Roads											
E&M Works											
SVD110	Access to Portions I	0	0%	0	31-Mar-19						◆
Service Gallery											
Ch 7200 - 5000											
TNL-SG1000	Drilling works CH7200 - 5000	12	0%	12	01-Apr-19	15-Apr-19					
Road Level & OHVD											
Ch 7200 - 5000											
Ch 7200 - 6700											
TNU-RL1770	Bracket fixing on side wall - CH7200 to 6700	8	0%	8	23-Apr-19	02-May-19					
TNU-RL1775	Installation Works by Others (to be coordinated)	107	0%	107	03-May-19	06-Sep-19					
TNU-RL1790	Lighting in the middle of tunnels - CH7200 to 6700	8	0%	8	20-May-19	28-May-19					
TNU-RL1800	FH/ HR pipe installation - CH7200 to 6700	8	0%	8	29-May-19	06-Jun-19					
TNU-RL1830	Cabling Works on Brackets - CH7200 to 6700	14	0%	14	08-Jun-19	24-Jun-19					
Ch 6700 - 6100											
TNU-RL1000	Bracket fixing on side wall - CH6700 to 6100	10	0%	10	03-May-19	14-May-19					
TNU-RL1005	Installation Works by Others (to be coordinated)	121	0%	121	15-May-19	08-Oct-19					
TNU-RL1010	Lighting in the middle of tunnels - CH6700 to 6100	9	0%	9	29-May-19	08-Jun-19					
TNU-RL1020	FH/ HR pipe installation - CH6700 to 6100	10	0%	10	10-Jun-19	20-Jun-19					
Ch 6100 - 5600											
TNU-RL1110	Bracket fixing on side wall - CH6100 to 5600	8	0%	8	15-May-19	23-May-19					
TNU-RL1115	Installation Works by Others (to be coordinated)	133	0%	133	24-May-19	31-Oct-19					
TNU-RL1120	Lighting in the middle of tunnels - CH6100 to 5600	8	0%	8	10-Jun-19	18-Jun-19					
CH 5600 - 5000											

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 22/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019			
							Mar	Apr	May	Jun
TNU-RL1220	Bracket fixing on side wall - CH5600 to 5000	10	0%	10	24-May-19	04-Jun-19				
TNU-RL1225	Installation Works by Others (to be coordinated)	147	0%	147	05-Jun-19	28-Nov-19				
Key Date 7 - E&M Works for Satellite Control Building and Kiosks S1&S2										
E&M Works for Satellite Control Building										
E&M Works										
Installation										
SCB-EMGF1210	E&M cast-in Installation	18	0%	18	29-May-19	19-Jun-19				
Key Date 6C - E&M Works for South Ventilation Building										
SVB-SEM1000	SEM Drawings ready for Structural Works for SVB	0	0%	0	30-Apr-19					
Key Date 10 - FSD Building Structure & E&M Works										
Building Structure										
FSD200	ELS Removed for FSD Substructure (under KD 4A)	0	0%	0		08-May-19				
FSD210	Ground Floor	28	0%	28	09-May-19	11-Jun-19				
FSD220	First Floor	30	0%	30	12-Jun-19	17-Jul-19				
E&M Works										
Installation										
FSDB-EMGF0001	E&M cast-in Installation	80	0%	80	23-May-19	26-Aug-19				
Statutory Inspections and approvals										
FSDB-SI1000	Submission of Genset Exhaust Drawing to EPD	0	0%	0	26-Apr-19					
FSDB-SI1005	Review and Approval of Genset Exhaust Drawing by EPD	48	0%	48	26-Apr-19	22-Jun-19				
Key Date 9 - C&ED Building & E&M Works										
Building Structure										
CED210	ELS Removed for C&ED Substructure (under KD 4A)	0	0%	0		16-Apr-19				
CED220	Ground Floor	30	0%	30	30-Apr-19	04-Jun-19				
CED230	First Floor	33	0%	33	05-Jun-19	15-Jul-19				
E&M Works										
Installation										
C&EDB-GF0001	E&M cast-in Installation	90	0%	90	15-May-19	29-Aug-19				
Statutory Inspections and approvals										
C&EDB-SI1000	Submission of Genset Exhaust Drawing to EPD	0	0%	0	26-Apr-19					
C&EDB-SI1005	Review and Approval of Genset Exhaust Drawing by EPD	48	0%	48	26-Apr-19	22-Jun-19				
Key Date 11 - Landscape Soft Works & Trees Protection										
Trees Protection										
SL193	Protection Existing Trees & Submit Report with Photographic Record No.4	41	92.68%	3	03-Jan-19 A	23-Mar-19				
SL194	Protection Existing Trees & Submit Report with Photographic Record No.5	41	0%	41	23-Mar-19	16-May-19				
SL195	Protection Existing Trees & Submit Report with Photographic Record No.6	41	0%	41	16-May-19	05-Jul-19				
Key Date 8 - All Works for Tunnel Commissioning & Opening										
Petrol Filling Station										
Structure										
PS110	Possess Portion Vc	0	0%	0		02-May-19				
PS120	Excavation	20	0%	20	02-May-19	24-May-19				
PS130	Footing	20	0%	20	25-May-19	18-Jun-19				
PS140	Petrol Filling Station Roof	14	0%	14	19-Jun-19	05-Jul-19				
PS150	Structure for Petrol Filling Station	36	0%	36	19-Jun-19	31-Jul-19				
PS160	Underground Fuel Tank Structure	36	0%	36	19-Jun-19	31-Jul-19				
Statutory Inspections and approvals										
Administration Building										
ADB-SI1000	Submission of Genset Exhaust Drawing to EPD	0	0%	0	26-Apr-19					

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 23/24

Date	Revision	Checked	Approved
20-Mar-19			

ID	Activity	Duration (Days)	% Comp	Remaining Duration	Start	Finish	2019			
							Mar	Apr	May	Jun
ADB-SI1005	Review and Approval of Genset Exhaust Drawing by EPD	48	0%	48	26-Apr-19	22-Jun-19				
Maintenance Depot										
MD-SI1000	Submission of Genset Exhaust Drawing to EPD	0	0%	0	20-Mar-19					
MD-SI1005	Review and Approval of Genset Exhaust Drawing by EPD	48	0%	48	20-Mar-19	20-May-19				
North Ventilation Building										
NVB-SI1000	Submission of Genset Exhaust Drawing to EPD	0	0%	0	26-Apr-19					
NVB-SI1005	Review and Approval of Genset Exhaust Drawing by EPD	48	0%	48	26-Apr-19	22-Jun-19				
Toll Control Building & Toll Collector Subway										
TCB-SI0010	Submission of Genset Exhaust Drawing to EPD	0	0%	0	26-Apr-19					
TCB-SI0015	Review and Approval of Genset Exhaust Drawing by EPD	48	0%	48	26-Apr-19	22-Jun-19				
Satellite Control Building										
SCB-SI1000	Submission of Genset Exhaust Drawing to EPD	0	0%	0	26-Apr-19					
SCB-SI1005	Review and Approval of Genset Exhaust Drawing by EPD	48	0%	48	26-Apr-19	22-Jun-19				
South Ventilation Building										
SVB-SI1000	Submission of Genset Exhaust Drawing to EPD	0	0%	0	26-Apr-19					
SVB-SI1005	Review and Approval of Genset Exhaust Drawing by EPD	48	0%	48	26-Apr-19	22-Jun-19				

CONTRACT NO. HY2017/10
NORTHERN TUNNEL CONNECTION BUILDING E&M WORKS
THREE MONTHLY PROGRAMME AS OF 20 MAR 2019

P 24/24

Date	Revision	Checked	Approved
20-Mar-19			