

 
保華-中國中鐵聯營體
PAUL Y.-CREC JOINT VENTURE

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	January					February				March				April				May	
						27					28				29				30				31	
						01	08	15	22	29	05	12	19	26	05	12	19	26	02	09	16	23	30	07
Temporary pipework between PST Stage 1 and A-Tank Inlet [Delink proposal]																								
TWD-750	Hydraulic design - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	126	1-Feb-23	6-Jun-23	-55																			
Temporary pumping and pipeworks between exsiting Detroitor and PST Stage 1 [Delink proposal]																								
TWD-780	Hydraulic design - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	126	1-Feb-23	6-Jun-23	-145																			
Temporary Traffic Arrangement at Wang Lok Street																								
TWD-810	TTA - Engaga TTA Consultant	60	20-Dec-22 A	31-Mar-23	-45																			
TWD-820	TTA - Prepare/submit/review/approve TTA design and drawings to PM and TMLG	120	1-Apr-23	29-Jul-23	-45																			
Temporary Working Platform at ELS																								
Temporary Working Platform at AGS ELS																								
TWD-890	Temp. Working Platform - AGS ELS - Prepare & Submission for PM's review	45	9-Dec-22 A	28-Feb-23	-264																			
TWD-900	Temp. Working Platform - AGS ELS - Review by PM's & ICE review (28 d + 7d)	35	1-Mar-23	4-Apr-23	-264																			
TWD-910	Temp. Working Platform - AGS ELS - Resubmission for PM's & ICE review (7d prep & resub. + 7d ICE)	14	5-Apr-23	18-Apr-23	-264																			
TWD-920	Temp. Working Platform - AGS ELS - Obtain Approval	7	19-Apr-23	25-Apr-23	-264																			
Temporary Working Platform at TTS ELS																								
TWD-930	Temp. Working Platform - TTSS ELS - Prepare & Submission for PM's review	45	20-Jan-23 A	13-Feb-23	-13																			
TWD-940	Temp. Working Platform - TTS ELS - Review by PM's & ICE review (28 d + 7d)	35	14-Feb-23	20-Mar-23	-13																			
TWD-950	Temp. Working Platform - TTS ELS - Resubmission for PM's & ICE review (7d prep & resub. + 7d ICE)	14	21-Mar-23	3-Apr-23	-13																			
TWD-960	Temp. Working Platform - TTS ELS - Obtain Approval	7	4-Apr-23	10-Apr-23	-13																			
Contractor's Permanent Works Design (include ATAL)																								
AIP																								
Package 3A - Plant Service Water																								
AIP-520	E&M AIP Report for Plant Service Water - Resubmission for further review	45	20-Dec-21 A	17-Feb-23	400																			
AIP-530	E&M AIP Report for Plant Service Water - Obtain Approval	7	18-Feb-23	24-Feb-23	400																			
Package 6A - Control & Monitoring System																								
AIP-200	Control & Monitoring System - Resubmission for further review	14	24-Jan-22 A	28-Feb-23	479																			
AIP-620	Control & Monitoring System - Obtain Approval	7	1-Mar-23	7-Mar-23	479																			
Package 7A - Building Services System																								
AIP-250	BS System - Obtain Approval	7	7-Dec-22 A	21-Dec-22 A																				
Package 22A - Sampling System of YLEPP																								
AIP-930	Sampling System - Resubmission for further review	45	24-Dec-22 A	23-Feb-23	-195																			
AIP-940	Sampling System - Obtain Approval	7	24-Feb-23	2-Mar-23	-195																			
Package 23A - Security, Public Address and Communication System																								
AIP-950	SPC - Prepare & Submission for PM's review	45	1-Jun-22 A	17-Feb-23	8																			
AIP-960	SPC - Review by PM's & ICE review (28 d + 7d)	45	18-Feb-23	3-Apr-23	8																			
AIP-970	SPC - Resubmission for further review	45	4-Apr-23	18-May-23	8																			
DDA																								
Package 1A - Hydraulic Detailed Design Approval (DDA) Report																								
DDA-1490	Hydraulic Detailed Design Approval - Obtain Approval	7	29-Dec-22 A	1-Feb-23	185																			
Package 1B - General Notes and Typical Details Drawings for Civil, Structural and Geotechnical																								
DDA-130	Contractor's Design for General Architecture, Civil, Structural & Geotechnical - Obtain Approval	7	12-Dec-22 A	13-Jan-23 A																				
Package 2 - Tertiary Treatment System																								
DDA-170	Civil Req. for TTS (Foundation design) - Prepare(27d), Sub. & Review(45d),Comment & Resub.(14d), GEO(28d)&	121	13-Jun-21 A	1-Mar-23	204																			
DDA-150	Foundation for TTS - Prepare (90d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d), GEO (28d)	213	8-Oct-21 A	29-May-23	55																			
DDA-180	Civil Req. for TTS (Superstruct. design) - Prepare (147d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approv	213	11-Oct-21 A	11-Mar-23	424																			
DDA-190	P&ID for TTS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	213	31-Dec-21 A	24-Nov-23	424																			
DDA-200	Mechanical for TTS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	213	31-Dec-21 A	24-Nov-23	457																			
DDA-210	Electrical& Control for TTS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	213	31-Dec-21 A	24-Nov-23	457																			
DDA-140	Architectural for TTS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	126	1-Feb-23	6-Jun-23	50																			
DDA-160	Civil & Structural for TTS - Prepare (120d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	177	2-Feb-23	28-Jul-23	55																			
DDA-220	Building Services (BS) for TTS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	330	25-Feb-23*	20-Jan-24	400																			
Package 3 - Mainstream Bio-Reactor System																								
DDA-260	Civil Req. for MBS-AGS (Foundation design) - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Ap	126	9-Jun-21 A	3-Mar-23	-12																			
DDA-280	P&ID for MBS (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	126	8-Oct-21 A	18-Sep-23	156																			
DDA-290	Mechanical for MBS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	126	8-Oct-21 A	18-Sep-23	156																			
DDA-300	Electrical& Control for MBS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	405	8-Oct-21 A	18-Sep-23	156																			
DDA-270	Civil Req. for MBS-AGS (Superstruct. design) - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Ap	126	1-Mar-22 A	20-Mar-23	-12																			
DDA-240	Foundation for MBS - Prepare (97d), Sub. & Review(45d) ,Comment & Resub.(14d),GEO (28d)& Approval (7d)	230	18-Mar-22 A	29-Jul-23	-3																			
DDA-250	Civil & Structural for MBS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	170	20-Jan-23 A	7-Aug-23	-12																			
DDA-310	Building Services (BS) for MBS - Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	199	4-Mar-23*	18-Sep-23	156																			
DDA-1530	VCAB for AGS&TTS - Prepare (30d), Sub. & Review(30d)	234	4-Mar-23	23-Oct-23	93																			
Package 5A - Master Water Meter Room																								
DDA-360	Foundation for Master WM Room- Prepare (60d), Sub. & Review(45d) ,Comment & Resub.(14d),GEO(28d) & Ap	154	15-Feb-22 A	6-Apr-23	40																			
DDA-370	Civil & Struct. for WM Room- Prepare (90d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	156	15-Apr-22 A	23-Jun-23	52																			
DDA-390	P&ID for MWMC - MBS (60d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	126	1-Feb-23*	6-Jun-23	9																			

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						27					28				29				30				31	
						01	08	15	22	29	05	12	19	26	05	12	19	26	02	09	16	23	30	07
	DDA-380	General Arrangement & Civil Req. for MWMC - Prepare (60d), Sub. & Review.(45d) ,Comment & Resub.(14d) & Approval (7d)	126	3-Mar-23	6-Jul-23	40																		
	DDA-400	Mechanical for MWMC - Prepare (60d), Sub. & Review.(45d) ,Comment & Resub.(14d) & Approval (7d)	126	23-Apr-23	26-Aug-23	9																		
	DDA-410	Electrical& Control for MWMC - Prepare (60d), Sub. & Review.(45d) ,Comment & Resub.(14d) & Approval (7d)	126	23-Apr-23	26-Aug-23	9																		
Package 5B - Plant Service Water (PSW)																								
	DDA-1050	Civil Requirement Drawings - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	126	12-Jun-21 A	2-Mar-23	146																		
	DDA-1040	Piping & Instrumentation Diagram (P&ID) - Prep(30d), Sub.&Review(28d), Comment&Resub (14d) & Approval (7d)	206	25-Feb-23	18-Sep-23	400																		
	DDA-1060	Electrical & Control for PSW - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	126	25-Feb-23	30-Jun-23	524																		
	DDA-1070	Mechanical for PSW - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	206	25-Feb-23	18-Sep-23	524																		
Package 6 - Sludge Thickening Chemical and Dosing System																								
	DDA-1120	P&ID for STCDS - Prepare (60d), Sub. & Review.(45d) ,Comment & Resub.(14d) & Approval (7d)	335	14-Aug-21 A	15-Jul-23	515																		
	DDA-440	Civil & Struct. for STCS, WGB & Guard Hse - Prepare (60d), Sub. & Review.(45d) ,Comment & Resub.(14d) & Approval (7d)	250	9-Nov-21 A	6-May-23	63																		
	DDA-440B	Civil Req. for STCDS - Prepare (60d), Sub. & Review.(45d) ,Comment & Resub.(14d) & Approval (7d)	300	15-Nov-21 A	22-Mar-23	630																		
	DDA-1130	Mechanical for STCDS - Prepare (60d), Sub. & Review.(45d) ,Comment & Resub.(14d) & Approval (7d)	340	15-Nov-21 A	15-Jul-23	515																		
	DDA-1140	Electrical & Control for STCDS - Prepare (60d), Sub. & Review.(45d) ,Comment & Resub.(14d) & Approval (7d)	315	30-Nov-21 A	15-Jul-23	515																		
	DDA-1520	Mechanical Ventilation and Air conditional System Design for Sludge Thickening Building (STB)	320	16-Jun-22 A	15-Jul-23	1597																		
	DDA-1510	Plumbing and Drainage System Design for Sludge Thickening Building (STB)	320	7-Jul-22 A	15-Jul-23	1597																		
	DDA-1500	Fire Services Design for Sludge Thickening Building (STB)	320	8-Jul-22 A	15-Jul-23	1597																		
	DDA-430	Found. for STCS,Waste Gas Burner & Guard Hse- Prepare(60d),Sub.&Review.(45d),Comment & Resub.(14d),GEO(	126	12-Mar-23	15-Jul-23	1107																		
	DDA-1150	Building Services for STCDS - Prepare (60d), Sub. & Review.(45d) ,Comment & Resub.(14d) & Approval (7d)	126	12-Mar-23	15-Jul-23	515																		
Package 7 - CLP Substation and 11kV Switchgear House																								
	DDA-470	Electrical System for all facilities - Prepare (28d), Sub. & Review.(28d) ,Comment & Resub.(14d) & Approval (7d)	78	1-Jun-21 A	28-Feb-23	100																		
	DDA-490	BS for CLP Sub. & 11kV Switchgear Hse - Prepare (28d), Sub. & Review.(28d) ,Comment & Resub.(14d) & Approval (7d)	78	1-Jun-21 A	28-Feb-23	102																		
	DDA-480	UPS System for CLP Sub.& 11kV Switchgear Hse - Prepare (102d), Sub. & Review.(45d),Comment & Resub.(14d) & Approval (7d)	168	3-Jun-21 A	28-Feb-23	100																		
	DDA-1160	Earthing & Lighting System Design Report - Prepare (28d), Sub. & Review.(28d) ,Comment & Resub.(14d) & Approval (7d)	78	2-Jul-21 A	28-Feb-23	100																		
	DDA-1450	VCAB, FSD & WSD Design Report - Prepare (28d), Sub. & Review.(28d) ,Comment & Resub.(14d) & Approval (7d)	78	2-Jul-21 A	28-Feb-23	100																		
Package 9 - Inlet Work (IW)																								
	DDA-1180	PID for Inlet Work - Prepare (30d), Sub. & Review.(30d) ,Comment & Resub.(14d) & Approval (7d)	120	10-Jul-21 A	30-Mar-23	106																		
	DDA-1170	Civil Req. Drawing for Inlet Work - Prepare (30d), Sub. & Review.(30d) ,Comment & Resub.(14d) & Approval (7d)	82	4-Aug-21 A	28-Feb-23	-205																		
	DDA-1190	Mechanical for Inlet Work - Prepare (28d), Sub. & Review.(28d) ,Comment & Resub.(14d) & Approval (7d)	120	9-Aug-21 A	30-Mar-23	106																		
	DDA-1200	Electrical & Control for Inlet Work - Prepare (28d), Sub. & Review.(28d) ,Comment & Resub.(14d) & Approval (7d)	120	30-Oct-21 A	23-Mar-23	113																		
	DDA-1210	Building Services for Inlet Work - Prepare (28d), Sub. & Review.(28d) ,Comment & Resub.(14d) & Approval (7d)	76	30-Mar-22 A	23-Mar-23	130																		
Package 10 - Primary Sedimentation Tank (PST)																								
	DDA-1230	PID for PST - Prepare (46d), Sub. & Review.(30d) ,Comment & Resub.(14d) & Approval (7d)	120	1-Jun-21 A	31-Mar-23	-170																		
	DDA-1240	Mechanical for PST - Prepare (46d), Sub. & Review.(30d) ,Comment & Resub.(14d) & Approval (7d)	120	1-Jun-21 A	31-Mar-23	-153																		
	DDA-1250	Electrical & Control for PST - Prepare (28d), Sub. & Review.(28d) ,Comment & Resub.(14d) & Approval (7d)	48	31-Aug-21 A	31-Mar-23	-153																		
	DDA-1260	Building Services for PST - Prepare (28d), Sub. & Review.(28d) ,Comment & Resub.(14d) & Approval (7d)	90	1-Oct-21 A	31-Mar-23	-183																		
Package 11 - Control and Monitoring System																								
	DDA-580	Power Quality & Energy Management System (PQEMS) - Prep(28d), Sub.&Review(28d), Comment&Resub (14d) & Approval (7d)	130	2-Oct-21 A	30-Jun-23	46																		
	DDA-1270	Gas Detection System - Prep(28d), Sub.&Review(28d), Comment&Resub (14d) & Approval (7d)	90	1-Feb-23	1-May-23	296																		
	DDA-550	Supervisory Control&Data Application (SCADA) System - Prep(28d), Sub.&Review(28d), Comment&Resub (14d) & Approval (7d)	269	1-Mar-23	24-Nov-23	402																		
	DDA-1280	Data Collection, Management, Analysis, & Model System - Prep(28d), Sub.&Review(28d), Comment&Resub (14d) & Approval (7d)	269	1-Mar-23	24-Nov-23	402																		
Package 12 - Chemical System for STB																								
	DDA-650	Chemical System for Sludge Thickening Building (STB) - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	126	12-Mar-23	15-Jul-23	515																		
Package 13 - Pipework System																								
	DDA-670	Pipeworks System for Primary Sedimentation Tanks (PST)- Prep(57d), Sub.&Review(45d), Comment&Resub(14d) & Approval (7d)	123	18-Sep-21 A	3-Mar-23	209																		
	DDA-680	Pipeworks System for Biogas Holder (BH) - Prep(57d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	123	18-Sep-21 A	3-Mar-23	613																		
	DDA-690	Pipeworks System for Sludge Dewatering Building (SDB) - Prep(60d),Sub.&Review(45d),Comment&Resub (14d) & Approval (7d)	126	18-Feb-23	23-Jun-23	209																		
	DDA-700	Pipeworks System for Utility Corridor&Pipe Portal (UC/PP) - Prep(103d),Sub.&Review(45d),Comment&Resub(14d) & Approval (7d)	126	18-Feb-23	23-Jun-23	1099																		
	DDA-1030	Pipeworks System for Sludge Digesters - Prep(60d),Sub.&Review(45d),Comment&Resub (14d) & Approval (7d)	126	18-Feb-23	23-Jun-23	209																		
Package 14 - Sludge Anaerobic Digestion System (SDT)																								
	DDA-1300	PID for SDT - Prepare (47d), Sub. & Review.(45d) ,Comment & Resub.(14d) & Approval (7d)	460	1-Jul-21 A	10-Nov-23	69																		
	DDA-1320	Electrical & Control for SDT & UC/PP - Prepare (55d), Sub. & Review.(45d) ,Comment & Resub.(14d) & Approval (7d)	460	2-Jul-21 A	10-Nov-23	69																		
	DDA-1290	Civil Req. Drawing for SDT - Prepare (47d), Sub. & Review.(45d) ,Comment & Resub.(14d) & Approval (7d)	200	10-Jul-21 A	1-Apr-23	69																		
	DDA-1310	Mechanical for SDT & UC/PP - Prepare (47d), Sub. & Review.(45d) ,Comment & Resub.(14d) & Approval (7d)	460	10-Jul-21 A	10-Nov-23	69																		
	DDA-1340	Civil Req. Drawing for UC/PP - Prepare (47d), Sub. & Review.(45d) ,Comment & Resub.(14d) & Approval (7d)	580	10-Jul-21 A	1-Mar-24	642																		
Package 15 - Biogas H2S Removal, Storage and Delivery System																								
	DDA-1360	PID for Biogas H2S Removal, Storage and Delivery System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d) & Approval (7d)	75	13-Jul-21 A	21-Mar-23	594																		
	DDA-1350	Civil Req. Drawing for Biogas Storage&Delivery System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d) & Approval (7d)	78	31-Aug-21 A	4-Mar-23	562																		
	DDA-1370	Mechanical for Biogas H2S Removal System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d) & Approval (7d)	78	5-Oct-21 A	28-Apr-23	565																		
	DDA-1400	Civil Req. Drawing for Biogas H2S Removal System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d) & Approval (7d)	78	7-Dec-21 A	4-Mar-23	602																		
	DDA-1380	Electrical & Control for Biogas H2S Removal System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d) & Approval (7d)	139	15-Mar-23	31-Jul-23	602																		
	DDA-1390	Building Services for Biogas H2S Removal System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d) & Approval (7d)	139	15-Mar-23	31-Jul-23	602																		
Package 16 - Deodorization Unit System																								

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	January					February				March				April				May	
						27					28				29				30				31	
						01	08	15	22	29	05	12	19	26	05	12	19	26	02	09	16	23	30	07
	DDA-1410	PID for DOU System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)	78	3-Sep-21 A	8-Mar-23	459																		
	DDA-1420	Mechanical for DOU No. 1 - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)	78	4-Mar-22 A	29-May-23	342																		
	DDA-1440	Mechanical for DOU No. 3 - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)	300	17-Jul-22 A	15-Jul-23	601																		
Package 22 - Sampling System of YLEPP																								
	DDA-740	Sampling System for IW&PST - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d)	90	3-Mar-23	31-May-23	-195																		
Package 23 - Security, Public Address and Communication System																								
	DDA-750	SPC sitewide ACS - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d)	128	23-Mar-23	28-Jul-23	8																		
Package 24 - Administration Building (ADB)																								
	DDA-0960	Architectural for Administration Building (ADB)- Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval	126	19-Mar-23	22-Jul-23	247																		
Design out of ATAL's Scope																								
	DDA-1540	Drainage systems at base slab / foundation levels - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Appr	126	1-Feb-23	6-Jun-23	155																		
	DDA-1560	Street fire hydrant system - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	126	1-Feb-23	6-Jun-23	155																		
	DDA-1590	Motor-driven Entrance Gate - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d)	126	1-Feb-23	6-Jun-23	81																		
Technical Submission																								
Sludge Digesters (SD)																								
	TS-750	(CSD) Civil & Structural for Sludge Digesters (SD) - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Appr	126	25-Sep-21 A	26-Jun-23	59																		
	TS-740	(CSD) Found. for Sludge Digesters (SD) - Prep(60d), Sub.&Review(45d), Comment&Resub (14d), GEO (28d)& Appr	126	30-Sep-21 A	25-Apr-23	59																		
Environmental Submission (PS 34.12(4)(xx))																								
	SUBM-1150	Employment of specialists or consultants	60	8-Mar-23	6-May-23	1517																		
Hazardous Area Classification and Fire Risk Assessment																								
	TS-1810	Hazardous Area Classification Assessment - Prep(60), Sub.&Review(45d), Comment&resub(14d) & Approval (7d)	126	20-Sep-21 A	7-Mar-23	200																		
	TS-1820	Fire Risk Assessment - Prep(60), Sub.&Review(45d), Comment&resub(14d) & Approval (7d)	126	20-Sep-21 A	7-Mar-23	200																		
Factory Acceptance Test Plans																								
	SUBM-1090	Submit/review/approval Factory Acceptance Test Plans - Inlet pumps	120	1-Feb-23	31-May-23	40																		
	SUBM-1100	Submit/review/approval Factory Acceptance Test Plans - Thickening centrifuges	120	1-Feb-23	31-May-23	265																		
	SUBM-1110	Submit/review/approval Factory Acceptance Test Plans - Disc filter system	120	1-Feb-23	31-May-23	248																		
	SUBM-1120	Submit/review/approval Factory Acceptance Test Plans - 11kV switchboards	120	1-Feb-23	31-May-23	-144																		
	SUBM-1130	Submit/review/approval Factory Acceptance Test Plans - SCADA system	120	1-Feb-23	31-May-23	94																		
	SUBM-1140	Employment of third-party independent surveyor for Factory Acceptance Tests	60	1-Feb-23	1-Apr-23	-144																		
Operation and Maintenance (O&M) Manuals and Installation Manuals (PS 34.20(11)(12)(13))																								
Inlet Works and Primary Sedimentation Tank																								
	SUBM-1070	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	5-Jan-23 A	28-Mar-23	-169																		
	SUBM-1200	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft	60	29-Mar-23	27-May-23	12																		
AGS and TTS system																								
	SUBM-1220	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	29-Mar-23	27-May-23	270																		
Sludge Thickening System																								
	SUBM-1250	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	29-Mar-23	27-May-23	838																		
Sludge Digestion System																								
	SUBM-1310	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	29-Mar-23	27-May-23	119																		
Biogas H2S Removal System																								
	SUBM-1280	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	29-Mar-23	27-May-23	119																		
Commissioning Plan and Procedures (PS34.20(10))																								
	SUBM-1080	Employment of HOKLAS laboratory for commissioning test	60	23-May-22 A	1-Apr-23	-22																		
	SUBM-1000	Submit/review/approval Commissioning Plan and Procedures - Early commissioning of IW	120	2-Apr-23	30-Jul-23	175																		
	SUBM-1010	Submit/review/approval Commissioning Plan and Procedures - Early commissioning of PST	120	2-Apr-23	30-Jul-23	-22																		
	SUBM-1020	Submit/review/approval Commissioning Plan and Procedures - AGS	120	2-Apr-23	30-Jul-23	206																		
	SUBM-1030	Submit/review/approval Commissioning Plan and Procedures - TTS	120	2-Apr-23	30-Jul-23	786																		
	SUBM-1040	Submit/review/approval Commissioning Plan and Procedures - STB	120	2-Apr-23	30-Jul-23	834																		
	SUBM-1050	Submit/review/approval Commissioning Plan and Procedures - SDT	120	2-Apr-23	30-Jul-23	436																		
	SUBM-1060	Submit/review/approval Commissioning Plan and Procedures - Biogas system	120	2-Apr-23	30-Jul-23	768																		
Material Submission, Procurement, Manufacturing and Delivery																								
Inlet Works																								
	PRE-210	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Screening system (fixed bar,coarse,fine)	300	16-Mar-21 A	24-Aug-23	-27																		
	PRE-700	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Inlet pumps (HF,LF,Drainage)	330	5-Jan-22 A	24-Aug-23	40																		
	PRE-290	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Grit Trap and classifier	270	18-Feb-22 A	14-Oct-23	-66																		
	PRE-280	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Conveyeor and compactor	270	12-Apr-22 A	24-Aug-23	74																		
	PRE-330	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - DOU-01	330	26-May-22 A	27-Dec-23	-92																		
	PRE-300	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - LALG	270	28-Jul-22 A	24-Aug-23	-44																		
	PRE-310	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Penstocks and stoplogs	270	13-Sep-22 A	23-Sep-23	-72																		
	PRE-320	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - MVAC-Ventilation Fan	211	10-Jan-23 A	24-Aug-23	71																		
Primary Sedimentation Tanks																								
	PRE-220	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Inclined plate settler	225	8-Dec-21 A	7-Jun-23	-152																		
	PRE-380	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - LALG	180	25-Jul-22 A	24-May-23	-188																		
	PRE-390	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Penstocks and stoplogs	270	13-Aug-22 A	23-May-23	-162																		

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	January					February				March				April				May	
						27					28				29				30				31	
						01	08	15	22	29	05	12	19	26	05	12	19	26	02	09	16	23	30	07
	PRE-340	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Bottom scraper	255	8-Sep-22 A	23-Aug-23	-66																		
	PRE-350	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - IPS air scouring blower	255	27-Sep-22 A	24-Jul-23	-67																		
	PRE-360	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Scum pump and skimmer	255	29-Sep-22 A	23-Aug-23	105																		
	PRE-370	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Primary sludge pump and grinder	255	29-Sep-22 A	23-Aug-23	40																		
	PRE-340a	Submit/Appoint manufacturer's representative for sludge bottom scraper (PS Cl. 35.26(7))	194	12-Oct-22 A	13-Jul-23	-25																		
	PRE-400	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Pipeworks and valves	194	15-Oct-22 A	17-May-23	-113																		
Biogas Holder																								
	PRE-270	Submit/Procure/Manufacture/Deliver Biogas Holding Tanks (membrane, steel tank and parts, instrumentation)	660	9-Jun-21 A	1-Jun-23	644																		
	PRE-410	Submit/Procure/Manufacture/Deliver Waster Gas Burner	300	19-Aug-21 A	21-Sep-23	644																		
	PRE-420	Submit/Procure/Manufacture/Deliver H2S Removal System	510	25-Feb-22 A	30-Apr-25	105																		
	PRE-430	Submit/Procure/Manufacture/Deliver Biogas booster and transfer pumps	366	21-Mar-23*	20-Mar-24	532																		
Sludge Digester Tank																								
	PRE-450	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Sludge Digester System	330	31-Aug-22 A	21-Feb-24	-34																		
	PRE-460	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Draft tube mixer	396	26-Dec-22 A	21-Feb-24	2																		
	PRE-470	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - MVAC-Jet fan	299	29-Apr-23*	21-Feb-24	-34																		
Sludge Thickening Building																								
	PRE-250	Submit/Procure/Manufacture/Deliver Sludge Thickening System - Thickening Centrifuges	360	12-Nov-21 A	24-Apr-24	265																		
	PRE-500	Submit/Procure/Manufacture/Deliver Sludge Thickening System - Pump and jet mixer	300	7-Jan-22 A	24-Apr-24	265																		
	PRE-490	Submit/Procure/Manufacture/Deliver Sludge Thickening System - DOU-03	409	13-Mar-23	24-Apr-24	261																		
	PRE-510	Submit/Procure/Manufacture/Deliver Sludge Thickening System - LALG	409	13-Mar-23*	24-Apr-24	261																		
	PRE-480	Submit/Procure/Manufacture/Deliver Sludge Thickening System - Polymer preparation system	362	29-Apr-23*	24-Apr-24	231																		
Mainstream Bio-Reactor																								
	PRE-230	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - AGS system	480	9-Sep-22 A	17-Jun-24	-117																		
	PRE-530	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Penstocks and stoplogs	345	31-Oct-22 A	24-Aug-24	-32																		
	PRE-550	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Sludge pre-thickening system	510	31-Oct-22 A	17-Jun-24	148																		
	PRE-540	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Chemical storage and dosing system	270	18-Nov-22 A	17-Jun-24	-117																		
	PRE-570	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Instrumentation	445	31-Mar-23*	17-Jun-24	106																		
	PRE-560	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - LALG	430	15-Apr-23*	17-Jun-24	-117																		
Tertiary Treatment System																								
	PRE-610	Submit/Procure/Manufacture/Deliver TTS Equip. - Pumping system	495	19-Jul-22 A	20-Jun-24	248																		
	PRE-600	Submit/Procure/Manufacture/Deliver TTS Equip. - UV disinfection system	510	8-Sep-22 A	20-Jun-24	248																		
	PRE-240	Submit/Procure/Manufacture/Deliver TTS Equip. - Disc Filter	600	27-Sep-22 A	20-Jun-24	248																		
	PRE-590	Submit/Procure/Manufacture/Deliver TTS Equip. - Chemical cleaning system	480	18-Nov-22 A	20-Jun-24	248																		
	PRE-630	Submit/Procure/Manufacture/Deliver TTS Equip. - Penstocks and stoplogs	435	30-Nov-22 A	20-Jun-24	248																		
	PRE-690	Submit/Procure/Manufacture/Deliver TTS Equip. - DOU-02	391	1-Apr-23*	25-Apr-24	304																		
Electrical and Control System																								
	PRE-680	Submit/Procure/Manufacture/Deliver Electrial and Control System - SCADA and instrumentation	420	30-Apr-22 A	11-Oct-23	94																		
	PRE-640	Submit/Procure/Manufacture/Deliver Electrial and Control System - HVSB and Tx	283	21-Dec-22 A	5-Jan-24	-144																		
	PRE-650	Submit/Procure/Manufacture/Deliver Electrial and Control System - LVSB	300	21-Dec-22 A	3-Jan-24	-138																		
	PRE-660	Submit/Procure/Manufacture/Deliver Electrial and Control System - UPS	300	21-Dec-22 A	5-Jan-24	-115																		
	PRE-670	Submit/Procure/Manufacture/Deliver Electrial and Control System - Armoured Cable	203	21-Dec-22 A	22-Jul-23	-152																		
PM and Contractor Accomodation																								
Project Manager's & Contractor Site Accommodation																								
MIC Section																								
	PMCA-190	Installation of Green Roof	16	9-Nov-21 A	17-Feb-23	1114																		
Statutory Submission & Approval																								
FSI, FSD and OP Requirements																								
FSI Submission & Approval																								
	FSD-1040	Submission/Review/Approval by PM and FSD - Full GBP+GBP for TOP1 with DG - RtC & 2nd submission	120	1-Feb-23	31-May-23	-85																		
WSD Submission & Approval																								
	WSD-1000	WSD - Submit Form WWO542	0		14-Mar-23	9																		
	WSD-1010	WSD - Form WWO542 PM&WSD review and approval	90	15-Mar-23	12-Jun-23	9																		
EMSD Submission & Approval																								
Biogas System (ATAL)																								
Phase 1																								
	ATAL-FS-0020	Form 105 for Biogas Holder Tank 1(Submission and Approval Period)	184	8-Nov-22 A	1-Dec-23	679																		
HAZOP Study																								
IW and PST																								
	HAZOP-Z1-010	HAZOP - Review Design / Installation HAZOP for IW PPST by independent consultant	30	15-Oct-22 A	2-Mar-23	-170																		
	HAZOP-Z1-020	HAZOP - Re-submission of Design / Installation methodology	20	3-Mar-23	22-Mar-23	-170																		
	HAZOP-Z1-030	HAZOP - Obtain Approval	7	23-Mar-23	29-Mar-23	-170																		
AGS System																								
	HAZOP-Z2-010	HAZOP - Review Design / Installation HAZOP for AGS by independent consultant	30	3-Mar-23	1-Apr-23	235																		
	HAZOP-Z2-020	HAZOP - Re-submission of Design / Installation methodology	20	2-Apr-23	21-Apr-23	299																		

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	January					February				March					April				May	
						27					28				29					30				31	
						01	08	15	22	29	05	12	19	26	05	12	19	26	02	09	16	23	30	07	
	HAZOP-Z2-030	HAZOP - Obtain Approval	7	22-Apr-23	28-Apr-23	299																			
TTS System																									
	HAZOP-Z2-30	HAZOP - Review Design / Installation HAZOP for TTS by independent consultant	30	3-Mar-23	1-Apr-23	667																			
	HAZOP-Z2-40	HAZOP - Re-submission of Design / Installation methodology	20	2-Apr-23	21-Apr-23	667																			
	HAZOP-Z2-50	HAZOP - Obtain Approval	7	22-Apr-23	28-Apr-23	667																			
Biogas H2S Removal System																									
	HAZOP-Z3-010	HAZOP - Review Design / Installation HAZOP for Biogas H2S Removal System by independent consultant	30	3-Mar-23	1-Apr-23	564																			
	HAZOP-Z3-020	HAZOP - Re-submission of Design / Installation methodology	20	2-Apr-23	21-Apr-23	564																			
	HAZOP-Z3-030	HAZOP - Obtain Approval	7	22-Apr-23	28-Apr-23	564																			
Sludge Thickening and Chemical System																									
	HAZOP-Z3-30	HAZOP - Review Design / Installation HAZOP for STB by independent consultant	30	3-Mar-23	1-Apr-23	235																			
	HAZOP-Z3-40	HAZOP - Re-submission of Design / Installation methodology	20	2-Apr-23	21-Apr-23	593																			
	HAZOP-Z3-50	HAZOP - Obtain Approval	7	22-Apr-23	28-Apr-23	593																			
Sludge Digestion System																									
	HAZOP-Z3-60	HAZOP - Review Design / Installation HAZOP for SDT by independent consultant	30	2-Apr-23	1-May-23	235																			
DOU and PSW System																									
	HAZOP-Z3-90	HAZOP - Review Design / Installation HAZOP for DOU and PSW by independent consultant	30	2-Apr-23	1-May-23	342																			
General Advance Works																									
NSWSPS Sensors																									
	ATALGA-1130	CMS - NSWSPS Sensor	51	11-Oct-22 A	28-Feb-23	99																			
	ATALGA-1160	CGS - Method Statement for Installation	101	11-Oct-22 A	28-Mar-23	198																			
	ATALGA-1170	Procurement & Delivery of Sensor	101	1-Mar-23	9-Jun-23	125																			
Disc Filter (DF) Pilot Plant																									
	ATALGA-1190	T&C	22	22-Sep-22 A	21-Feb-23	293																			
Dissolved Air Flotation (DAF) Pilot Plant																									
	ATALGA-1200	T&C	11	21-Jul-22 A	23-Feb-23	139																			
	ATALGA-1220	Post-commissioning	152	24-Feb-23	29-Aug-23	139																			
Aerobic Granular Sludge (AGS) Pilot Plant																									
	ATALGA-1210	Seeding, process start-up and T&C	52	16-Jun-22 A	23-Feb-23	139																			
	ATALGA-1270	Post-commissioning	152	24-Feb-23	29-Aug-23	139																			
Zone 1 Construction																									
Inlet Works (IW)																									
IW Foundation & ELS Works																									
IW Basement																									
	Z1-IW-6380	Stage 2 pumping test	12	19-Jan-23 A	15-Feb-23	-129																			
IW Excavation Works & ELS																									
IW Zone A/D- ELS																									
	Z1-IW-5780	IW- Excavation: 2nd Layer +3.5 ~ 1.0mPD (4,160m3) (3-4 excavators @ 500m3/d)	5	3-Jan-23 A	18-Jan-23 A																				
	Z1-IW-5790	IW- Strutting: 2nd Layer @+1.5mPD waling for Zone C preload (10 welders @ 23ton/d)	15	19-Jan-23 A	18-Feb-23	-168																			
	Z1-IW-6390	IW- Strutting: 2nd Layer @+1.5mPD remaining strut and preload (10 welders @ 23ton/d)	6	20-Feb-23	25-Feb-23	-156																			
	Z1-IW-5800	IW- Excavation: 3rd Layer +1.0 ~ - 1.625mPD (4,776m3) (3-4 excavators @ 500m3/d)	8	27-Feb-23	7-Mar-23	-156																			
	Z1-IW-5810	IW- Strutting: 3rd Layer @-1.125mPD with preload (10 welders @ 23ton/d)	10	8-Mar-23	18-Mar-23	-156																			
	Z1-IW-5820	IW- Excavation: 4th Layer -1.625 ~ -3.38mPD (3,105m3) (3-4 excavators @ 500m3/d)	7	3-Apr-23	14-Apr-23	-168																			
IW Zone C - ELS																									
	Z1-IW-5685	IW- Concrete Backing & Preload (2nd Layer)	5	15-Feb-23	20-Feb-23	-168																			
	Z1-IW-5690	IW- Excavation: 3rd Layer +1.0~-1.625mPD (5,704m3) (3-4 excavators @ 500m3/d)	10	21-Feb-23	3-Mar-23	-168																			
	Z1-IW-5700	IW- Backprop installation with preload (10 welders @ 23ton/d)	7	25-Mar-23	1-Apr-23	-168																			
	Z1-IW-5710	IW- Excavation to Formation -1.625~-3.125mPD (587m3) (2 excavators @ 120m3/d)	5	3-Apr-23	12-Apr-23	-166																			
IW Base Slab																									
	Z1-IW-6070	IW- Zone C - Pile Cap @-1.625mpD (incl. earth mat installation)	18	4-Mar-23	24-Mar-23	-168																			
	Z1-IW-6080	IW- Zone C - Pile Cap @-3.05mpD	18	13-Apr-23	4-May-23	-166																			
	Z1-IW-6060	IW- Zone D - Pile Cap @-3.225mPD	18	15-Apr-23	6-May-23	-168																			
Primary Sedimentation Tank (PST)																									
PST Stage 1																									
Basement RC Works (Stage 1 - Southern Portion)																									
Northern Trench (Zone E1)																									
	Z1-PST-4260	PST(S1) - Wall Erection of Formworks and RC Works (Ground Level)	11	24-Dec-22 A	19-Jan-23 A																				
Basement RC Works (North Portion)																									
	Z1-PST-4190	PST(S1) - Zone E2 - Base Slab & Wall Erection of Formworks and RC Works (+3.00 mPD)	20	24-Dec-22 A	19-Jan-23 A																				
	Z1-PST-4592	PST(S1) - Zone E3 - Base Slab & Wall Erection of Formworks and RC Works (+1.45 to +5.65mPD)	24	27-Jan-23 A	4-Mar-23	-175																			
PST Stage 2 of Works																									
PST Foundation - Stage 2 (At Remaining 2 Tanks, PST 5-6 Footprint)																									
	Z1-PST-4230	PST Stage 2 - Submit to GEO (28d)	28	5-Nov-22 A	28-Feb-23	-8																			

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	January					February					March					April					May
						27					28					29					30					31
						01	08	15	22	29	05	12	19	26	05	12	19	26	02	09	16	23	30	07		
	SDB-1300	PD9	12	20-Jan-23 A	13-Feb-23	130																				
	SDB-1020	PD19	12	14-Feb-23	27-Feb-23	130																				
	SDB-1040	PD20	12	28-Feb-23	13-Mar-23	130																				
	SDB-1080	PD21	12	28-Feb-23	13-Mar-23	130																				
	SDB-1010	PD10	12	14-Mar-23	27-Mar-23	130																				
	SDB-1030	PD22	12	14-Mar-23	27-Mar-23	130																				
	SDB-1230	PD1	12	28-Mar-23	14-Apr-23	337																				
	SDB-1250	PD6	12	28-Mar-23	14-Apr-23	130																				
	SDB-1350	PD4 w/ obstruction (PST4)	12	15-Apr-23	28-Apr-23	130																				
	SDB-1290	PD7	12	15-Apr-23	28-Apr-23	353																				
	SDB-1360	PD5 w/ obstruction (PST4)	12	29-Apr-23	13-May-23	130																				
Administration Building (ADB)																										
Temporary Admin Office and Control Room																										
	ADB-1040	Handover of Temp. Admin Office and Control Room	20	2-Feb-23	24-Feb-23	66																				
Temp Admin Office - MiC Section																										
	ADB-1020A30	E&M Installation and T&C	24	15-Aug-22 A	1-Feb-23	66																				
	ADB-1020A40	Relocation of Admin Office (MiC)	18	2-Feb-23	22-Feb-23	68																				
	ADB-1020A90	Completion of Admin Office (MiC)	0		22-Feb-23	89																				
ADB Demolition																										
	ADB-1060	Relocation of Central Control Room	30	25-Feb-23	31-Mar-23	408																				
	ADB-1250	Relocation of Existing SCADA System of Admin Bldg (23) and Document Centre (24)	21	25-Feb-23	21-Mar-23	66																				
	ADB-1050	Demolition of Admin Bldg (23) and Document Centre (24)	20	22-Mar-23	18-Apr-23	66																				
	ADB-1080	Demolition of Central Control Room (14)	30	19-Apr-23	24-May-23	397																				
ADB Foundation Works																										
	ADB-1390	ADB - Predrill (1no., 4days/no./rig, 1rig) (AB-PD1) (within CCR footprint)	4	6-Apr-23	13-Apr-23	429																				
	ADB-1360	ADB - Predrill (3nos., 4days/no./rig, 1rig) (AB-PD3, PD8, PD11) (outside existing building footprint)	8	15-Apr-23	24-Apr-23	420																				
Zone 2 Construction																										
Temporary Diversion																										
Temporary Diversion of 1800dia. Outfall Pipe																										
	MBRAF-2460	1800dia. outfall pipe div. - Submit/Approve Design	14	26-Jan-23 A	16-Feb-23	-227																				
	MBRAF-2440	1800dia. outfall pipe div. - Fabrication and delivery of MS pipe and steel hanger	14	1-Feb-23	16-Feb-23	-227																				
	MBRAF-2450	1800dia. outfall pipe div. - Submit/Approve Method Statement	14	1-Feb-23	16-Feb-23	-227																				
Demolition Works																										
Other Existing Pumping Stations																										
	Z2T-152	Demolition of Return Activated Sludge Screw Pumps PS (16) & Chamber (33) superstructure	20	17-Jan-23 A	11-Feb-23	-217																				
	Z2T-154	Demolition of Flow Measurement Chamber (34) & SSD Chamber (32) superstructure	20	17-Jan-23 A	11-Feb-23	-217																				
Mainstream Bio-Reactor & Auxiliary Facility (MBR and AF)																										
MBR and AF Structure																										
MBR - ELS Excavation & Demolition stage 1																										
Pipe Pile																										
Eastern Side																										
Installation of 813mm casing																										
	MBRAF-2160	813 Casing Installation (East)(P068-P100, 33nos@ 1.5nos./day/rig, 1 rig) (affected by UU diversion)	25	30-Jan-23 A	11-Feb-23	-212																				
Bird Curtain Modification Works																										
	MBRAF-2380	MBR - Dismantle existing bird curtain	24	9-Jan-23 A	2-Feb-23	-175																				
	MBRAF-2390	MBR - Erect bird curtain and noise barrier onto as-constructed pipe pile (Type B)	22	3-Feb-23	28-Feb-23*	-175																				
Northern Side																										
UU Diversion																										
	MBRAF-2190	450 Foul pipe - Cut and remove	30	20-Sep-22 A	14-Feb-23	-219																				
	MBRAF-2400	1800dia. outfall pipe diversion	30	1-Mar-23	4-Apr-23	-237																				
Installation of 813mm casing																										
	MBRAF-2210	813 Casing Installation (North)(P348-P398, 006-019, 55nos.@ 1.5nos./day/rig, 1 rig)	31	9-Dec-22 A	28-Feb-23	-237																				
	MBRAF-2410	813 Casing Installation (North)(10nos.@ 1.5nos./day/rig, 1 rig) (after 1800dia. outfall pipe diversion)	7	6-Apr-23	17-Apr-23	-234																				
	MBRAF-2100	Closing of 813mm pipe pile (South, East and North Sides)	10	18-Apr-23	28-Apr-23	-234																				
Western Side																										
UU Diversion / Roadworks																										
	MBRAF-2220	CLP 11kV (From Blower House) Diversion	13	28-Sep-22 A	1-Mar-23	-207																				
	MBRAF-2240	800 and 1000 DI Pipe From existing Flow Chamber - Cut and remove	30	1-Dec-22 A	23-Dec-22 A																					
	MBRAF-2780	EVA Re-provision (west of blower house)	12	23-Jan-23 A	2-Feb-23	-209																				
	MBRAF-2790	EVA Re-provision (at PST4)	12	1-Feb-23	14-Feb-23	-213																				
Installation of 813mm casing																										
	MBRAF-2260	813 Casing Installation (West)(P294-P239, 56nos@1.5nos./day/rig, 2rigs)	26	15-Feb-23	16-Mar-23	-220																				
	MBRAF-2290	813 Casing Installation (West)(P338-P293, 45nos@1.5nos./day/rig, 2rigs)	15	17-Mar-23	3-Apr-23	-221																				
	MBRAF-2280	Closing of 813mm pipe pile (West)	5	4-Apr-23	13-Apr-23	-221																				

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	January					February				March				April				May	
						27					28				29				30				31	
						01	08	15	22	29	05	12	19	26	05	12	19	26	02	09	16	23	30	07
Kingpost and Working Platform																								
MBRAF-2510	MBR - Submit/Approve Method Statement for steel deck	24	1-Feb-23	28-Feb-23	-167																			
MBRAF-2270	MBR - Installation of king post by preboring (18nos., 2d/pile) for ELS	36	13-Feb-23	25-Mar-23	-203																			
MBRAF-1540	MBR - Coring of A-tank bottom slab for king post installation & wells installation	25	7-Mar-23	4-Apr-23	-226																			
MBRAF-2090	MBR - Installation of king post by preboring (11nos., 2d/pile) (affected by existing A-tank) for ELS	22	28-Mar-23	26-Apr-23	-226																			
MBRAF-2480	MBR - Installation of king post by preboring (11nos., 2d/pile) for steel deck	22	26-Apr-23	22-May-23	-211																			
MBRAF-2470	MBR - Installation of king post by preboring (11nos., 2d/pile) (affected by existing A-tank) for steel deck	22	27-Apr-23	23-May-23	-212																			
Monitoring and Pumping																								
MBRAF-1460	MBR - Monitoring and pumping installation (Stage 1)	18	4-Apr-23	28-Apr-23	-234																			
MBRAF-2430	MBR - Pumping test (Stage 1)	14	29-Apr-23	12-May-23	-290																			
MBR - ELS Excavation & Demolition stage 2																								
MBRAF-1440	MBR - Setup and Mobilization for ELS works	6	29-Apr-23	6-May-23	-228																			
Tertiary Treatment System (TTS)																								
TTS Foundation and ELS																								
Sheetpile																								
TTS-1010	TTS - Sheet Piles Install (4,255m2 @90m2/d)	36	22-Dec-22 A	3-Apr-23	-38																			
TTS-1860	TTS - Sheet Piles Install (1,418m2 @90m2/d) south portion after 1800dia outfall pipe diversion	16	6-Apr-23	27-Apr-23	-55																			
Kingpost and Working Platform																								
TTS-1890	TTS - Submit/Approve Method Statement for steel deck	24	11-Mar-23	12-Apr-23	-9																			
TTS-1530	TTS - Kingpost installation (preboring method) (11 nos.,2d/pile/rig,1rig) for ELS	22	14-Mar-23	12-Apr-23	-19																			
TTS-1870	TTS - Kingpost installation (preboring method) (assume 34nos.,2d/pile/rig,2rigs) for steel deck	34	13-Apr-23	23-May-23	-9																			
Bird Curtain																								
TTS-1830	TTS - Dismantle existing bird curtain and noise barrier	21	19-Dec-22 A	11-Jan-23 A																				
TTS-1840	TTS - Erect bird curtain and noise barrier onto as-constructed sheetpile (Type A)	21	12-Jan-23 A	25-Feb-23	-175																			
TTS-1900	MBR & TTS - Erect bird curtain and noise barrier (Type C)	12	15-Feb-23	28-Feb-23	-175																			
Monitoring and Pumping																								
TTS-1230	TTS - Monitoring and pumping installation	21	12-Apr-23	6-May-23	-55																			
Zone 3 Construction																								
Zone 3 North Portion (Z3N)																								
Demolition																								
Existing Sludge Thickening House (8, Air Flootation Thickener)																								
Z3S2-2030a	Demolition of Existing (8, Air Flootation Thickener) - Zone 3 superstructure (affected by Zone 2B Diversion)	11	28-Dec-22 A	4-Feb-23	-140																			
Z3S2-3490	Excavate & Demolish Existing (8, Air Flootation Thickener) substructure by clamping	15	27-Feb-23	15-Mar-23	-158																			
Z3S2-3470	Excavate & Demolish Existing Sludge Thickening House pump pit (8) (affect Zone P2B piling) by clamping	15	16-Mar-23	1-Apr-23	-158																			
Z3S2-2030b	Excavate & Demolish Existing Sludge Thickening House pump pit (8) (affect Zone P2B piling) by breaker	6	3-Apr-23	13-Apr-23	-36																			
Z3S2-2030b10	Backfill Existing Sludge Thickening House pump pit (8) (affect Zone P2B piling)	5	14-Apr-23	19-Apr-23	-158																			
New Sudge Thickening Building (STB)																								
STB : Predrilling Works																								
Z3S1a.7-70	Complete Predrilling Works for STB	0		1-Dec-22 A																				
Z3S3-3490	Environment GI (4 nos.) at Zone P2B	12	13-Feb-23*	25-Feb-23	-158																			
Z3S3-5130	Environment GI - Submit RAP Report to EPD	30	27-Feb-23*	1-Apr-23	-130																			
STB : Driven H-pile																								
Batch 1																								
Z3S3-3370	STB - Submit to GEO (28d) (Batch 1)	28	1-Dec-22 A	4-Mar-23	100																			
Batch 2																								
Z3S3-3950	STB - Site Setup & Mobilization (Batch 2)	9	20-Apr-23	29-Apr-23	-158																			
STB : Foundation and ELS																								
STB Stage 1 ELS																								
Z3S3-2180	STB - Sheetpile Installation (3,997m2 @90m2/d/rig, 1rig) (Stage 1)	46	3-Dec-22 A	27-Mar-23	-98																			
Z3S3-5140	STB - Sheetpile Installation (Stage 1) by preboring (Assumed 180piles, 1.5pile/day/rig, 2 rigs)	60	15-Feb-23*	29-Apr-23	-64																			
Z3S3-3340	STB - Monitoring and pumping installation for Stage 1	20	22-Apr-23	16-May-23	-64																			
Utility Corridor (UC5) (Connect to STB)																								
UC5 : Predrilling Works																								
Z3S2-3390	UC/PP - Predrill UC&PP-PD1	6	5-Jan-23 A	10-Jan-23 A																				
UC5 : Foundation and ELS Works																								
Z3S2-3070	UC5 - UU diversion for sheetpile works	12	23-Dec-22 A	17-Feb-23	-86																			
Z3S2-3500	UC5 - Road Diversion for sheetpile works	5	4-Mar-23	9-Mar-23	-98																			
Z3S2-3580	UC5 - Site set-up and mobilization for sheetpile works	2	10-Mar-23	11-Mar-23	-98																			
Z3S2-3080	UC5 - Sheetpile Installation (1,806m2 @90m2/d)	24	13-Mar-23	13-Apr-23	-98																			
Z3S2-3090	UC5 - Monitoring and pumping Installation	14	24-Mar-23	13-Apr-23	-98																			
Z3S2-3510	UC5 - Pumping test	6	14-Apr-23	20-Apr-23	-98																			
Z3S2-3100	UC5 - ELS, Excavation (+6.0 to +4.0mPD) (526m3, 200m3/d)	3	21-Apr-23	24-Apr-23	-98																			
Z3S2-3110	UC5 - ELS, Strut Installation S1 (+4.0mPD)	8	25-Apr-23	4-May-23	-98																			
Z3S2-3120	UC5 - Marine Sediments Treatment and Disposal	14	25-Apr-23	11-May-23	-85																			

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	January					February				March				April				May
						27					28				29				30				31
						01	08	15	22	29	05	12	19	26	05	12	19	26	02	09	16	23	30
Zone 3 South Portion (Z3S)																							
Sludge Digester No. 1-3 (SD1-3)																							
SD1-3 : Foundation and ELS																							
SD1-3 : Sheetpiling																							
Z3S3-2060	Sludge Digester No. 1-3 - Sheet Piles Install Portion 2 (4,636m2, 90m2/d/rig, 3rigs) by silent piler & vibrating hamn	54	19-Sep-22 A	6-Apr-23	-69																		
Z3S3-4810	Sludge Digester No. 1-3 - Kingpost by preboring (5nos. 325m @ 3d/pile)	15	11-Apr-23	27-Apr-23	-69																		
Z3S3-3350	Sludge Digester No. 1-3 - Monitoring and pumping installation	18	14-Apr-23	5-May-23	-69																		
Biogas Holder No. 1 (BH1)																							
BH1 : Foundation																							
Z3BH-1000	Biogas Holder No. 1 - Band drain Installation for Ground Improvement	6	30-Nov-22 A	31-Dec-22 A																			
Z3BH-1060	Biogas Holder No. 1 - Band drain Installation for Ground Improvement @ SHT 1 and existing water heater house f	6	30-Nov-22 A	31-Dec-22 A																			
Z3BH-1040	Biogas Holder No. 1 - Surcharge (concrete block placing and fill)	24	2-Jan-23 A	25-Feb-23	-30																		
Z3BH-1050	Biogas Holder No. 1 - Consolidation *calendar day	30	26-Feb-23	27-Mar-23	-40																		
Z3BH-1140	Biogas Holder No. 1 - Verification drillhole (2nos., BH-VD4, BH-VD5)	8	28-Mar-23	6-Apr-23	-34																		
Z3BH-1150	Biogas Holder No. 1 - Remove surcharge	10	11-Apr-23	21-Apr-23	-34																		
Z3BH-1180	Biogas Holder No. 1 - Sheetpile (TL-11mPD, 976m2 @ 90m2/d, 1rig)	12	22-Apr-23	6-May-23	382																		
Utility Corridor and Pipe Portal (UC/PP)																							
Pipe Portal No. 1 (PP1) (Construct with SD1-3)																							
PP1 : Predrilling Works																							
Z3S5UC1-2220	UC/PP - Predrill UC&PP-PD5	6	8-Dec-22 A	17-Dec-22 A																			
Utility Corridor No. 1 (UC1)																							
UC1 : Predrilling Works																							
Z3S5UC1-2180	UC/PP - Predrill UC&PP-PD2	6	11-Apr-23	17-Apr-23	160																		
Z3S5UC1-2190	UC/PP - Predrill UC&PP-PD3	6	18-Apr-23	24-Apr-23	160																		
Z3S5UC1-2200	UC/PP - Predrill UC&PP-PD6	6	25-Apr-23	2-May-23	160																		
Zone 3 Middle Portion (Z3M)																							
Sludge Digester No. 4-6 (SD4-6)																							
SD4-6 : Foundation and ELS																							
Pre-drilling Works																							
Z3S8SD-1000	Sludge Digester No. 5-6 - Pre-drill (1 nos. SD-BH2)	14	27-Mar-23*	15-Apr-23	529																		
Z3S8SD-2020	Sludge Digester No. 4 - Pre-drill (1 no. SD-BH5)	14	17-Apr-23	3-May-23	529																		
Z3S8SD-2280	Sludge Digester No. 5-6 - Submit to GEO (28d)	28	17-Apr-23	19-May-23	716																		