

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	October					November					December					January					February	
						24					25					26					27					28	
						02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29	05			
<b>YL Effluent Polishing Plant - Main Works Stage 1 - Detailed Works Programme DPv19</b>																											
<b>Contract Data Part 1</b>																											
<b>Access Dates</b>																											
ADWA2	Work Area WA2 (sd) (new site possession) validity for 12 months and subject to renewal	757	05-Mar-21 A	31-Mar-23*	0																						
<b>Contract Section Completion</b>																											
CSC1	Section 1- Civil, Structural and Architectural works of CLP Substations No. 1 & 2 (for CLP install.)	0		31-Oct-22*	-24	◆ Section 1- Civil, Structural and Architectural works of CLP Substations No. 1 & 2 (for CLP install.)																					
<b>Environmental Constraints</b>																											
NMM-2155	PS 1.105A Noise Mitigation Measures 2022-2023	151	01-Nov-22*	31-Mar-23	0																						
<b>Planned Completion</b>																											
<b>Planned Section Completion</b>																											
PSC1	Section 1 - Civil, Structural and Architectural works of CLP Substations No. 1 & 2 (for CLP install.)	0		14-Dec-22*	-68	◆ Section 1 - Civil, Structural and Architectural works of CLP Substations No. 1 & 2 (for CLP install.)																					
<b>Preliminary and Preparation Works</b>																											
<b>Subletting</b>																											
SUB-270	Subletting for ELS works for IW, PST, SDB, STB, SD, MBB, TTB, underpass and open cut for admin. bldg	312	12-Oct-21 A	21-Dec-22	-85	Subletting for ELS works for IW, PST, SDB, STB, SD, MBB, TTB, underpass and open cut for admin. bldg																					
SUB-280	Subletting for RC works for IW, PST, SDB, STB, SD, Biogas holder, underpass and admin. bldg	256	29-Nov-21 A	13-Dec-22	-168	Subletting for RC works for IW, PST, SDB, STB, SD, Biogas holder, underpass and admin. bldg																					
SUB-290	Subletting for ABWF works for IW, PST, SDB, STB, MBR, TTB and admin. bldg	60	14-Dec-22	11-Feb-23	-164																						
SUB-310	Subletting for Utilities Corridor ELS	60	08-Aug-22 A	10-Dec-22	-61	Subletting for Utilities Corridor ELS																					
SUB-350	Subletting for Waterproofing membrane and protection board	300	29-Nov-21 A	25-Jan-23	63	Subletting for Waterproofing membrane and protection board																					
SUB-360	Subletting for Rebar fixing	86	29-Nov-21 A	31-Dec-22	-168	Subletting for Rebar fixing																					
SUB-380	Subletting for Sheet piling works for remaining areas	333	12-Oct-21 A	11-Jan-23	561	Subletting for Sheet piling works for remaining areas																					
<b>Design Submission</b>																											
<b>Temporary Works Design</b>																											
<b>Mainstream Bio-Reactor System</b>																											
TWD-240	ELS - Resubmission for PM's & ICE review (7d prep & resub. + 7d ICE)	14	20-Jun-22 A	14-Nov-22	-118	ELS - Resubmission for PM's & ICE review (7d prep & resub. + 7d ICE)																					
TWD-250	ELS - Obtain Approval	7	10-Nov-22	16-Nov-22	-71	ELS - Obtain Approval																					
TWD-520	ELS - Submit to GEO (Dewatering Proposal)	28	17-Nov-22	14-Dec-22	-71	ELS - Submit to GEO (Dewatering Proposal)																					
<b>Sludge Thickening Building</b>																											
TWD-200	ELS - Resubmission for PM's & ICE review (7d prep & resub. + 7d ICE)	14	26-May-22 A	12-Nov-22	-55	ELS - Resubmission for PM's & ICE review (7d prep & resub. + 7d ICE)																					
TWD-210	ELS - Obtain Approval	7	13-Nov-22	19-Nov-22	-55	ELS - Obtain Approval																					
TWD-540	ELS - Submit to GEO (Dewatering Proposal)	28	13-Nov-22	10-Dec-22	-30	ELS - Submit to GEO (Dewatering Proposal)																					
<b>Tertiary Treatment System</b>																											
TWD-150	ELS - Review by PM's & ICE review (28 d + 7d)	35	10-Jun-22 A	15-Nov-22	-111	ELS - Review by PM's & ICE review (28 d + 7d)																					
TWD-160	ELS - Resubmission for PM's & ICE review (7d prep & resub. + 7d ICE)	14	16-Nov-22	29-Nov-22	-111	ELS - Resubmission for PM's & ICE review (7d prep & resub. + 7d ICE)																					
TWD-170	ELS - Obtain Approval	7	30-Nov-22	06-Dec-22	-90	ELS - Obtain Approval																					
TWD-550	ELS - Submit to GEO (Dewatering Proposal)	28	30-Nov-22	27-Dec-22	-111	ELS - Submit to GEO (Dewatering Proposal)																					
<b>Sludge Digester 1-3 &amp; Utilities Corridor</b>																											
TWD-360	ELS - Resubmission for PM's & ICE review (7d prep & resub. + 7d ICE)	14	21-Jun-22 A	07-Nov-22	-97	ELS - Resubmission for PM's & ICE review (7d prep & resub. + 7d ICE)																					
TWD-370	ELS - Obtain Approval	7	08-Nov-22	14-Nov-22	-91	ELS - Obtain Approval																					
TWD-560	ELS - Submit to GEO (Dewatering Proposal)	28	08-Nov-22	05-Dec-22	-97	ELS - Submit to GEO (Dewatering Proposal)																					
<b>Sludge Digester 4-6</b>																											
TWD-460	ELS - Prepare & Submission for PM's review	45	15-Nov-22	29-Dec-22	600	ELS - Prepare & Submission for PM's review																					
TWD-470	ELS - Review by PM's & ICE review (28 d + 7d)	35	30-Dec-22	02-Feb-23	600	ELS - Review by PM's & ICE review (28 d + 7d)																					
<b>Sludge Dewatering and Underpass</b>																											
TWD-260	ELS - Prepare & Submission for PM's review	45	30-Nov-22	13-Jan-23	503	ELS - Prepare & Submission for PM's review																					
TWD-270	ELS - Review by PM's & ICE review (28 d + 7d)	35	14-Jan-23	17-Feb-23	503	ELS - Review by PM's & ICE review (28 d + 7d)																					
<b>Modification of Existing Emergency Bypass Chamber</b>																											
TWD-650	ELS - Prepare & Submission for PM's review	45	30-Sep-22 A	11-Dec-22	180	ELS - Prepare & Submission for PM's review																					
TWD-660	ELS - Review by PM's & ICE review (28 d + 7d)	35	12-Dec-22	15-Jan-23	180	ELS - Review by PM's & ICE review (28 d + 7d)																					



- █ Remaining Level of Effort
- █ Actual Work
- █ Remaining Work
- █ Critical Remaining Work
- ◆ Milestone

## Contract DC/2019/10 - YLEPP - Main Works for Stage 1

### Monthly Progress Report No. 24 - 3MRP (Oct 2022)

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31-Oct-22	Rev. 0		

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	October					November					December					January					February		
						24					25					26					27					28		
						02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29	05				
TWD-670	ELS - Resubmission for PM's & ICE review (7d prep & resub. + 7d ICE)	14	16-Jan-23	29-Jan-23	180																							ELS - Resu
TWD-680	ELS - Obtain Approval	7	30-Jan-23	05-Feb-23	180																							EL
TWD-690	ELS - Submit to GEO (Dewatering Proposal)	28	30-Jan-23	26-Feb-23	184																							
<b>Modification of Existing Inspection Chamber &amp; Inlet Effluent Pipes from NSWSPS</b>																												
TWD-700	ELS - Prepare & Submission for PM's review	45	26-Oct-22 A	13-Dec-22	85																							ELS - Prepare & Submission for PM's review
TWD-710	ELS - Review by PM's & ICE review (28 d + 7d)	35	14-Dec-22	17-Jan-23	85																							ELS - Review by PM's & ICE
TWD-720	ELS - Resubmission for PM's & ICE review (7d prep & resub. + 7d ICE)	14	18-Jan-23	31-Jan-23	85																							ELS - Re
<b>Temporary pipework between PST Stage 1 and A-Tank Inlet [Delink proposal]</b>																												
TWD-750	Hydraulic design - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	126	01-Nov-22	06-Mar-23	50																							
<b>Temporary pumping and pipeworks between existing Detritor and PST Stage 1 [Delink proposal]</b>																												
TWD-780	Hydraulic design - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	126	01-Nov-22	06-Mar-23	-76																							
<b>Temporary Traffic Arrangement at Wang Lok Street</b>																												
TWD-810	TTA - Engaga TTA Consultant	60	01-Nov-22	30-Dec-22	10																							TTA - Engaga TTA Consultant
TWD-820	TTA - Prepare/submit/review/approve TTA design and drawings to PM and TMLG	120	31-Dec-22	29-Apr-23	10																							
<b>Contractor's Permanent Works Design (include ATAL)</b>																												
<b>AIP</b>																												
<b>Package 3A - Plant Service Water</b>																												
AIP-520	E&M AIP Report for Plant Service Water - Resubmission for further review	45	20-Dec-21 A	21-Nov-22	33																							E&M AIP Report for Plant Service Water - Resubmission for further review
AIP-530	E&M AIP Report for Plant Service Water - Obtain Approval	7	22-Nov-22	28-Nov-22	33																							E&M AIP Report for Plant Service Water - Obtain Approval
<b>Package 6A - Control &amp; Monitoring System</b>																												
AIP-200	Control & Monitoring System - Resubmission for further review	14	24-Jan-22 A	13-Nov-22	427																							Control & Monitoring System - Resubmission for further review
AIP-620	Control & Monitoring System - Obtain Approval	7	14-Nov-22	20-Nov-22	427																							Control & Monitoring System - Obtain Approval
<b>Package 7A - Building Services System</b>																												
AIP-240	BS System - Resubmission for further review	14	28-Mar-22 A	10-Nov-22	-128																							BS System - Resubmission for further review
AIP-250	BS System - Obtain Approval	7	11-Nov-22	17-Nov-22	-128																							BS System - Obtain Approval
<b>Package 22A - Sampling System of YLEPP</b>																												
AIP-910	Sampling System - Prepare & Submission for PM's review	45	05-Aug-22 A	11-Nov-22	247																							Sampling System - Prepare & Submission for PM's review
AIP-920	Sampling System - Review by PM's & ICE review (28 d + 7d)	35	12-Nov-22	16-Dec-22	247																							Sampling System - Review by PM's & ICE review (28 d + 7d)
AIP-930	Sampling System - Resubmission for further review	45	17-Dec-22	30-Jan-23	247																							Sampling
<b>Package 23A - Security, Public Address and Communication System</b>																												
AIP-950	SPC - Prepare & Submission for PM's review	45	01-Jun-22 A	20-Nov-22	247																							SPC - Prepare & Submission for PM's review
AIP-960	SPC - Review by PM's & ICE review (28 d + 7d)	45	21-Nov-22	04-Jan-23	247																							SPC - Review by PM's & ICE review (28 d + 7d)
AIP-970	SPC - Resubmission for further review	45	05-Jan-23	18-Feb-23	247																							
<b>DDA</b>																												
<b>Package 1A - Hydraulic Detailed Design Approval (DDA) Report</b>																												
DDA-1480	Hydraulic Detailed Design Approval - Resubmission for further review	45	25-Mar-22 A	25-Nov-22	156																							Hydraulic Detailed Design Approval - Resubmission for further review
DDA-1490	Hydraulic Detailed Design Approval - Obtain Approval	7	26-Nov-22	02-Dec-22	156																							Hydraulic Detailed Design Approval - Obtain Approval
<b>Package 1B - General Notes and Typical Details Drawings for Civil, Structural and Geotechnical</b>																												
DDA-1080	Contractor's Design for General Architecture, Civil, Structural & Geotechnical - Submit to GEO for comment and approval	28	27-Nov-22	24-Dec-22	36																							Contractor's Design for General Architecture, Civil, Structural & Geotechnical - Resubmission for further review
DDA-120	Contractor's Design for General Architecture, Civil, Structural & Geotechnical - Resubmission for further review	45	25-Mar-22 A	26-Nov-22	36																							Contractor's Design for General Architecture, Civil, Structural & Geotechnical - Resubmission for further review
DDA-130	Contractor's Design for General Architecture, Civil, Structural & Geotechnical - Obtain Approval	7	18-Dec-22	24-Dec-22	36																							Contractor's Design for General Architecture, Civil, Structural & Geotechnical - Obtain Approval
<b>Package 2 - Tertiary Treatment System</b>																												
DDA-140	Architectural for TTS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	126	25-Dec-22	29-Apr-23	36																							
DDA-150	Foundation for TTS - Prepare (90d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d), GEO (28d)	213	08-Oct-21 A	10-Apr-23	-85																							
DDA-160	Civil & Structural for TTS - Prepare (120d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	187	25-Dec-22	29-Jun-23	-85																							
DDA-170	Civil Req. for TTS (Foundation design) - Prepare(27d), Sub. & Review(45d), Comment & Resub.(14d), GEO(28d)&	121	13-Jun-21 A	13-Nov-22	143																							Civil Req. for TTS (Foundation design) - Prepare(27d), Sub. & Review(45d), Comment & Resub.(14d), GEO(28d)&
DDA-180	Civil Req. for TTS (Superstruct. design) - Prepare (147d), Sub. & Review(45d), Comment & Resub.(14d) & Approv	213	11-Oct-21 A	07-Jan-23	266																							Civil Req. for TTS (Superstruct. design)
DDA-190	P&ID for TTS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	213	31-Dec-21 A	29-Mar-23	266																							



- Remaining Level of Effort
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## Contract DC/2019/10 - YLEPP - Main Works for Stage 1

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Date	Revision	Checked	Approved
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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	October					November				December				January			February
						24					25				26				27			28
						02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22
DDA-200	Mechanical for TTS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	213	31-Dec-21 A	29-Mar-23	266																	
DDA-210	Electrical& Control for TTS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	213	31-Dec-21 A	29-Mar-23	266																	
DDA-220	Building Services (BS) for TTS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	126	29-Nov-22	03-Apr-23	261																	
<b>Package 3 - Mainstream Bio-Reactor System</b>																						
DDA-1530	VCAB for AGS&TTS - Prepare (30d), Sub. & Review(30d)	60	01-Nov-22	30-Dec-22*	1																	
DDA-240	Foundation for MBS - Prepare (97d), Sub. & Review(45d), Comment & Resub.(14d),GEO(28d)& Approval (7d)	230	18-Mar-22 A	10-May-23	25																	
DDA-250	Civil & Structural for MBS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	180	17-Jan-23	15-Jul-23	-41																	
DDA-260	Civil Req. for MBS-AGS (Foundation design) - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Ap	126	09-Jun-21 A	10-Dec-22	-50																	
DDA-270	Civil Req. for MBS-AGS (Superstruct. design) - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Ap	126	01-Mar-22 A	16-Jan-23	-41																	
DDA-280	P&ID for MBS (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	126	08-Oct-21 A	06-Jan-23	85																	
DDA-290	Mechanical for MBS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	126	08-Oct-21 A	15-Feb-23	329																	
DDA-300	Electrical& Control for MBS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	405	08-Oct-21 A	18-Oct-23	84																	
DDA-310	Building Services (BS) for MBS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	324	28-Nov-22	17-Oct-23	85																	
<b>Package 5A - Master Water Meter Room</b>																						
DDA-360	Foundation for Master WM Room- Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d),GEO(28d) & Ap	154	15-Feb-22 A	19-Jan-23	-54																	
DDA-370	Civil & Struct. for WM Room- Prepare (90d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	156	15-Apr-22 A	15-Feb-23	-54																	
DDA-380	General Arrangement & Civil Req. for MWMC - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Ap	126	20-Jan-23	25-May-23	33																	
DDA-390	P&ID for MWMC - MBS (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	126	12-Dec-22	16-Apr-23	-54																	
<b>Package 5B - Plant Service Water (PSW)</b>																						
DDA-1040	Piping & Instrumentation Diagram (P&ID) - Prep(30d), Sub.&Review(28d), Comment&Resub (14d) & Approval (7d)	354	29-Nov-22	17-Nov-23	33																	
DDA-1050	Civil Requirement Drawings - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	126	12-Jun-21 A	27-Feb-23	97																	
DDA-1060	Electrical & Control for PSW - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	126	29-Nov-22	03-Apr-23	33																	
DDA-1070	Mechanical for PSW - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	354	29-Nov-22	17-Nov-23	33																	
<b>Package 6 - Sludge Thickening Chemical and Dosing System</b>																						
DDA-1120	P&ID for STCDS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	335	14-Aug-21 A	14-Aug-23	336																	
DDA-1130	Mechanical for STCDS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	340	15-Nov-21 A	14-Aug-23	336																	
DDA-1140	Electrical & Control for STCDS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	315	30-Nov-21 A	26-Aug-23	325																	
DDA-1500	Fire Services Design for Sludge Thickening Building (STB)	320	08-Jul-22 A	14-Aug-23	541																	
DDA-1510	Plumbing and Drainage System Design for Sludge Thickening Building (STB)	320	07-Jul-22 A	14-Aug-23	541																	
DDA-1520	Mechanical Ventilation and Air conditional System Design for Sludge Thickening Building (STB)	320	16-Jun-22 A	14-Aug-23	541																	
DDA-440	Civil & Struct. for STCS, WGB & Guard Hse - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Ap	250	09-Nov-21 A	02-Mar-23	45																	
DDA-440B	Civil Req. for STCDS - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	300	15-Nov-21 A	24-Mar-23	479																	
<b>Package 7 - CLP Substation and 11kV Switchgear House</b>																						
DDA-1160	Earthing & Lighting System Design Report - Prepare (28d), Sub. & Review(28d), Comment & Resub.(14d) & App	78	02-Jul-21 A	05-Nov-22	-67																	
DDA-1450	VCAB, FSD & WSD Design Report - Prepare (28d), Sub. & Review(28d), Comment & Resub.(14d) & Approval (7d)	78	02-Jul-21 A	24-Nov-22	-62																	
DDA-470	Electrical System for all facilities - Prepare (28d), Sub. & Review(28d), Comment & Resub.(14d) & Approval (7d)	78	01-Jun-21 A	16-Nov-22	-67																	
DDA-480	UPS System for CLPSub.&11kV Switchgear Hse - Prepare (102d), Sub. & Review(45d),Comment & Resub.(14d)&	168	03-Jun-21 A	17-Nov-22	-62																	
DDA-490	BS for CLP Sub. &11kV Switchgear Hse - Prepare (28d), Sub. & Review(28d), Comment & Resub.(14d) & Appro	78	01-Jun-21 A	16-Nov-22	-62																	
<b>Package 8 - Advance Works and SCADA Relocation</b>																						
DDA-520	BS for Advance Works - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Approval (7d)	78	04-May-21 A	10-Nov-22	-18																	
DDA-530	E&M for Advance Works - SCADA Relocation - Prepare (60d), Sub. & Review(45d), Comment & Resub.(14d) & Ap	76	24-Jun-21 A	08-Nov-22	-18																	
<b>Package 9 - Inlet Work (IW)</b>																						
DDA-1170	Civil Req. Drawing for Inlet Work - Prepare (30d), Sub. & Review(30d), Comment & Resub.(14d) & Approval (7d)	82	04-Aug-21 A	23-Nov-22	-124																	
DDA-1180	PID for Inlet Work - Prepare (30d), Sub. & Review(30d), Comment & Resub.(14d) & Approval (7d)	120	10-Jul-21 A	09-Jan-23	63																	
DDA-1190	Mechanical for Inlet Work - Prepare (28d), Sub. & Review(28d), Comment & Resub.(14d) & Approval (7d)	120	09-Aug-21 A	09-Jan-23	63																	
DDA-1200	Electrical & Control for Inlet Work - Prepare (28d), Sub. & Review(28d), Comment & Resub.(14d) & Approval (7d)	120	30-Oct-21 A	09-Jan-23	63																	
DDA-1210	Building Services for Inlet Work - Prepare (28d), Sub. & Review(28d), Comment & Resub.(14d) & Approval (7d)	76	30-Mar-22 A	09-Jan-23	183																	
<b>Package 10 - Primary Sedimentation Tank (PST)</b>																						



- Remaining Level of Eff...
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## Contract DC/2019/10 - YLEPP - Main Works for Stage 1

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						02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29	05			
DDA-1220	Civil Req. Drawing for PST - Prepare (46d), Sub. & Review(30d) ,Comment & Resub.(14d) & Approval (7d)	98	01-Jun-21 A	10-Nov-22	-162	Civil Req. Drawing for PST - Prepare (46d), Sub. & Review(30d) ,Comment & Resub.(14d) & Approval (7d)																					
DDA-1230	PID for PST - Prepare (46d), Sub. & Review(30d) ,Comment & Resub.(14d) & Approval (7d)	120	01-Jun-21 A	21-Dec-22	-118	PID for PST - Prepare (46d), Sub. & Review(30d) ,Comme																					
DDA-1240	Mechanical for PST - Prepare (46d), Sub. & Review(30d) ,Comment & Resub.(14d) & Approval (7d)	120	01-Jun-21 A	16-Jan-23	-138	Mechanical for PST - Prepa																					
DDA-1250	Electrical & Control for PST - Prepare (28d), Sub. & Review(28d) ,Comment & Resub.(14d) & Approval (7d)	48	31-Aug-21 A	16-Jan-23	-138	Electrical & Control for PST																					
DDA-1260	Building Services for PST - Prepare (28d), Sub. & Review(28d) ,Comment & Resub.(14d) & Approval (7d)	90	01-Oct-21 A	16-Jan-23	-138	Building Services for PST -																					
<b>Package 11 - Control and Monitoring System</b>																											
DDA-580	Power Quality & Energy Management System (PQEMS) - Prep(28d), Sub.&Review(28d), Comment&Resub (14d)	130	02-Oct-21 A	30-Jan-23	77	Power Qu																					
<b>Package 13 - Pipework System</b>																											
DDA-1030	Pipeworks System for Sludge Digesters - Prep(60d),Sub.&Review(45d),Comment&Resub (14d) &Approval (7d)	126	18-Nov-22	23-Mar-23	167																						
DDA-670	Pipeworks System for Primary Sedimentation Tanks (PST) - Prep(57d), Sub.&Review(45d), Comment&Resub(14d)	123	18-Sep-21 A	01-Dec-22	143	Pipeworks System for Primary Sedimentation Tanks (PST) - Prep(57d), Sub.&Review																					
DDA-680	Pipeworks System for Biogas Holder (BH) - Prep(57d), Sub.&Review(45d), Comment&Resub (14d) & Approval (7d)	123	18-Sep-21 A	01-Dec-22	143	Pipeworks System for Biogas Holder (BH) - Prep(57d), Sub.&Review(45d), Comme																					
DDA-690	Pipeworks System for Sludge Dewatering Building (SDB) - Prep(60d),Sub.&Review(45d),Comment&Resub (14d) &	126	18-Nov-22	23-Mar-23	167																						
DDA-700	Pipeworks System for Utility Corridor&Pipe Portal (UC/PP) - Prep(103d),Sub.&Review(45d),Comment&Resub(14d)&	126	18-Nov-22	23-Mar-23	1125																						
<b>Package 14 - Sludge Anaerobic Digestion System (SDT)</b>																											
DDA-1290	Civil Req. Drawing for SDT - Prepare (47d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	200	10-Jul-21 A	29-Apr-23	-94																						
DDA-1300	PID for SDT - Prepare (47d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	460	01-Jul-21 A	09-Dec-23	-94																						
DDA-1310	Mechanical for SDT & UC/PP - Prepare (47d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	460	10-Jul-21 A	09-Dec-23	-94																						
DDA-1320	Electrical & Control for SDT & UC/PP - Prepare (55d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	460	02-Jul-21 A	09-Dec-23	-94																						
DDA-1340	Civil Req. Drawing for UC/PP - Prepare (47d), Sub. & Review(45d) ,Comment & Resub.(14d) & Approval (7d)	580	10-Jul-21 A	30-Mar-24	512																						
<b>Package 15 - Biogas H2S Removal, Storage and Delivery System</b>																											
DDA-1350	Civil Req. Drawing for Biogas Storage&Delivery System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&	78	31-Aug-21 A	19-Nov-22	15	Civil Req. Drawing for Biogas Storage&Delivery System - Prepare(28d),Sub& Review(28d),Comme																					
DDA-1360	PID for Biogas H2S Removal, Storage and Delivery System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&	75	13-Jul-21 A	08-Jan-23	117	PID for Biogas H2S Removal, Storag																					
DDA-1370	Mechanical for Biogas H2S Removal System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval	78	05-Oct-21 A	15-Feb-23	67																						
DDA-1380	Electrical & Control for Biogas H2S Removal System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Ap	243	01-Dec-22	31-Jul-23	15																						
DDA-1390	Building Services for Biogas H2S Removal System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&App	243	01-Dec-22	31-Jul-23	144																						
DDA-1400	Civil Req. Drawing for Biogas H2S Removal System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Ap	78	07-Dec-21 A	16-Nov-22	15	Civil Req. Drawing for Biogas H2S Removal System - Prepare(28d),Sub& Review(28d),Comment&Re																					
<b>Package 16 - Deodorization Unit System</b>																											
DDA-1410	PID for DOU System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)	78	03-Sep-21 A	08-Nov-22	354	PID for DOU System - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)																					
DDA-1420	Mechanical for DOU No. 1 - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)	78	04-Mar-22 A	16-Jan-23	346	Mechanical for DOU No. 1																					
DDA-1430	Mechanical for DOU No. 2A and 2B - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)	330	17-Jan-23*	12-Dec-23	346																						
DDA-1440	Mechanical for DOU No. 3 - Prepare(28d),Sub& Review(28d),Comment&Resub(14d)&Approval (7d)	300	17-Jul-22 A	14-Aug-23	531																						
<b>Package 19 - Elevated Walkways</b>																											
DDA-710	Civil & Structural for Elevated Walkways - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d), C	124	30-Nov-22*	02-Apr-23	880																						
<b>Design out of ATAL's Scope</b>																											
DDA-1540	Drainage systems at base slab / foundation levels - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Appr	126	01-Nov-22	06-Mar-23	210																						
DDA-1550	Rainwater drainage systems - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d)	126	01-Nov-22	06-Mar-23	1860																						
DDA-1560	Street fire hydrant system - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d)	126	01-Nov-22	06-Mar-23	210																						
DDA-1570	BS at Education Corridor - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d)	126	01-Nov-22	06-Mar-23	1306																						
DDA-1580	Lift Installation at TTS - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d)	126	01-Nov-22	06-Mar-23	289																						
DDA-1590	Motor-driven Entrance Gate - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(7d)	126	01-Nov-22	06-Mar-23	212																						
DDA-1600	BS for modification for existing Blower house - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Approval(	126	01-Nov-22	06-Mar-23	1269																						
<b>Technical Submission</b>																											
<b>Sludge Digesters (SD)</b>																											
TS-740	(CSD) Found. for Sludge Digesters (SD) - Prep(60d), Sub.&Review(45d), Comment&Resub (14d), GEO (28d)& Appr	126	30-Sep-21 A	06-Mar-23	118																						
TS-750	(CSD) Civil & Structural for Sludge Digesters (SD) - Prep(60d), Sub.&Review(45d), Comment&Resub (14d) & Appr	126	25-Sep-21 A	01-Dec-22	118	(CSD) Civil & Structural for Sludge Digesters (SD) - Prep(60d), Sub.&Review(45d), C																					
<b>Environmental Submission (PS 34.12(4)(xx))</b>																											
SUBM-1150	Employment of specialists or consultants	60	01-Nov-22	30-Dec-22	1776	Employment of specialists or consultants																					
<b>Hazardous Area Classification and Fire Risk Assessment</b>																											



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## Contract DC/2019/10 - YLEPP - Main Works for Stage 1

### Monthly Progress Report No. 24 - 3MRP (Oct 2022)

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Date	Revision	Checked	Approved
31-Oct-22	Rev. 0		

Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	October					November					December					January					February	
						24					25					26					27					28	
						02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29	05			
TS-1800	Hazardous Area Classification and Fire Risk Assessment Specialist - Submission & Approval	20	31-Aug-21 A	01-Nov-22	143	Hazardous Area Classification and Fire Risk Assessment Specialist - Submission & Approval																					
TS-1810	Hazardous Area Classification Assessment - Prep(60), Sub.&Review(45d), Comment&resub(14d) & Approval (7d)	126	20-Sep-21 A	06-Dec-22	143	Hazardous Area Classification Assessment - Prep(60), Sub.&Review(45d), Comment&resub(14d) & Approval (7d)																					
TS-1820	Fire Risk Assessment - Prep(60), Sub.&Review(45d), Comment&resub(14d) & Approval (7d)	126	20-Sep-21 A	06-Dec-22	143	Fire Risk Assessment - Prep(60), Sub.&Review(45d), Comment&resub(14d) & Approval (7d)																					
<b>Factory Acceptance Test Plans</b>																											
SUBM-1090	Submit/review/approval Factory Acceptance Test Plans - Inlet pumps	120	01-Nov-22	28-Feb-23	275	Submit/review/approval Factory Acceptance Test Plans - Inlet pumps																					
SUBM-1100	Submit/review/approval Factory Acceptance Test Plans - Thickening centrifuges	120	01-Nov-22	28-Feb-23	368	Submit/review/approval Factory Acceptance Test Plans - Thickening centrifuges																					
SUBM-1110	Submit/review/approval Factory Acceptance Test Plans - Disc filter system	120	01-Nov-22	28-Feb-23	-125	Submit/review/approval Factory Acceptance Test Plans - Disc filter system																					
SUBM-1120	Submit/review/approval Factory Acceptance Test Plans - 11kV switchboards	120	01-Nov-22	28-Feb-23	-79	Submit/review/approval Factory Acceptance Test Plans - 11kV switchboards																					
SUBM-1130	Submit/review/approval Factory Acceptance Test Plans - SCADA system	120	01-Nov-22	28-Feb-23	-52	Submit/review/approval Factory Acceptance Test Plans - SCADA system																					
SUBM-1140	Employment of third-party independent surveyor for Factory Acceptance Tests	60	01-Nov-22	30-Dec-22	-125	Employment of third-party independent surveyor for Factory Acceptance Tests																					
<b>Operation and Maintenance (O&amp;M) Manuals and Installation Manuals (PS 34.20(11)(12)(13))</b>																											
SUBM-1070	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft	60	01-Nov-22	30-Dec-22	-92	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - 1st draft																					
SUBM-1200	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft	60	31-Dec-22	28-Feb-23	83	Submit/review/approval Operation and Maintenance (O&M) Manuals and Installation Manuals - revised draft																					
<b>Commissioning Plan and Procedures (PS34.20(10))</b>																											
SUBM-1000	Submit/review/approval Commissioning Plan and Procedures - Early commissioning of IW	120	31-Dec-22	29-Apr-23	228	Submit/review/approval Commissioning Plan and Procedures - Early commissioning of IW																					
SUBM-1010	Submit/review/approval Commissioning Plan and Procedures - Early commissioning of PST	120	31-Dec-22	29-Apr-23	53	Submit/review/approval Commissioning Plan and Procedures - Early commissioning of PST																					
SUBM-1020	Submit/review/approval Commissioning Plan and Procedures - AGS	120	31-Dec-22	29-Apr-23	881	Submit/review/approval Commissioning Plan and Procedures - AGS																					
SUBM-1030	Submit/review/approval Commissioning Plan and Procedures - TTS	120	31-Dec-22	29-Apr-23	835	Submit/review/approval Commissioning Plan and Procedures - TTS																					
SUBM-1040	Submit/review/approval Commissioning Plan and Procedures - STB	120	31-Dec-22	29-Apr-23	840	Submit/review/approval Commissioning Plan and Procedures - STB																					
SUBM-1050	Submit/review/approval Commissioning Plan and Procedures - SDT	120	31-Dec-22	29-Apr-23	375	Submit/review/approval Commissioning Plan and Procedures - SDT																					
SUBM-1060	Submit/review/approval Commissioning Plan and Procedures - Biogas system	120	31-Dec-22	29-Apr-23	386	Submit/review/approval Commissioning Plan and Procedures - Biogas system																					
SUBM-1080	Employment of HOKLAS laboratory for commissioning test	60	01-Nov-22	30-Dec-22	53	Employment of HOKLAS laboratory for commissioning test																					
<b>Material Submission, Procurement, Manufacturing and Delivery</b>																											
<b>Inlet Works</b>																											
PRE-210	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Screening system (fixed bar,coarse,fine)	300	16-Mar-21 A	01-Nov-22	135	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Screening system (fixed bar,coarse,fine)																					
PRE-280	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Conveyer and compactor	270	12-Apr-22 A	28-Jul-23	70	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Conveyer and compactor																					
PRE-290	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Grit Trap and classifier	270	18-Feb-22 A	28-Jul-23	-75	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Grit Trap and classifier																					
PRE-300	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - LALG	270	28-Jul-22 A	28-Jul-23	-32	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - LALG																					
PRE-310	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Penstocks and stoplogs	270	13-Sep-22 A	28-Jul-23	-137	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Penstocks and stoplogs																					
PRE-320	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - MVAC-Ventilation Fan	210	01-Nov-22	29-May-23	122	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - MVAC-Ventilation Fan																					
PRE-330	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - DOU-01	330	26-May-22 A	26-Sep-23	-44	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - DOU-01																					
PRE-700	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Inlet pumps (HF,LF,Drainage)	330	05-Jan-22 A	01-Nov-22	275	Submit/Procure/Manufacture/Deliver New Inlet Works Equip. - Inlet pumps (HF,LF,Drainage)																					
<b>Primary Sedimentation Tanks</b>																											
PRE-220	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Inclined plate settler	225	08-Dec-21 A	01-Nov-22	78	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Inclined plate settler																					
PRE-340	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Bottom scraper	255	08-Sep-22 A	18-Jun-23	14	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Bottom scraper																					
PRE-340a	Submit/Appoint manufacturer's representative for sludge bottom scraper (PS Cl. 35.26(7))	90	01-Nov-22	29-Jan-23	154	Submit/Appoint manufacturer's representative for sludge bottom scraper (PS Cl. 35.26(7))																					
PRE-350	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - IPS air scouring blower	255	27-Sep-22 A	18-Jun-23	-18	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - IPS air scouring blower																					
PRE-360	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Scum pump and skimmer	255	29-Sep-22 A	18-Jun-23	128	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Scum pump and skimmer																					
PRE-370	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Primary sludge pump and grinder	255	29-Sep-22 A	18-Jun-23	63	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Primary sludge pump and grinder																					
PRE-380	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - LALG	180	25-Jul-22 A	11-Apr-23	-134	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - LALG																					
PRE-390	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Penstocks and stoplogs	270	13-Aug-22 A	20-Mar-23	-84	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Penstocks and stoplogs																					
PRE-400	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Pipeworks and valves	150	01-Nov-22	30-Mar-23	-182	Submit/Procure/Manufacture/Deliver New Primary Sedimentation Tank Equip. - Pipeworks and valves																					
<b>Biogas Holder</b>																											
PRE-270	Submit/Procure/Manufacture/Deliver Biogas Holding Tanks (membrane, steel tank and parts, instrumentation)	660	09-Jun-21 A	27-Aug-23	94	Submit/Procure/Manufacture/Deliver Biogas Holding Tanks (membrane, steel tank and parts, instrumentation)																					
PRE-410	Submit/Procure/Manufacture/Deliver Waster Gas Burner	300	19-Aug-21 A	27-Aug-23	962	Submit/Procure/Manufacture/Deliver Waster Gas Burner																					
PRE-420	Submit/Procure/Manufacture/Deliver H2S Removal System	510	25-Feb-22 A	27-Aug-23	460	Submit/Procure/Manufacture/Deliver H2S Removal System																					
PRE-430	Submit/Procure/Manufacture/Deliver Biogas booster and transfer pumps	360	01-Nov-22	26-Oct-23	34	Submit/Procure/Manufacture/Deliver Biogas booster and transfer pumps																					
<b>Sludge Digester Tank</b>																											



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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	October				November				December				January				February	
						24				25				26				27				28	
						02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29
PRE-440	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - LALG for Pipe Portal	180	01-Nov-22	29-Apr-23	179																		
PRE-450	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Sludge Digester System	330	31-Aug-22 A	26-Sep-23	-20																		
PRE-460	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - Draft tube mixer	390	01-Nov-22	25-Nov-23	-91																		
PRE-470	Submit/Procure/Manufacture/Deliver Sludge Digester Tank - MVAC-Jet fan	210	01-Nov-22	29-May-23	100																		
<b>Sludge Thickening Building</b>																							
PRE-250	Submit/Procure/Manufacture/Deliver Sludge Thickening System - Thickening Centrifuges	360	12-Nov-21 A	13-Jul-23	368																		
PRE-480	Submit/Procure/Manufacture/Deliver Sludge Thickening System - Polymer preparation system	240	01-Nov-22	28-Jun-23	383																		
PRE-490	Submit/Procure/Manufacture/Deliver Sludge Thickening System - DOU-03	330	01-Nov-22	26-Sep-23	542																		
PRE-500	Submit/Procure/Manufacture/Deliver Sludge Thickening System - Pump and jet mixer	300	01-Nov-22	27-Aug-23	323																		
PRE-510	Submit/Procure/Manufacture/Deliver Sludge Thickening System - LALG	210	01-Nov-22	29-May-23	413																		
PRE-520	Submit/Procure/Manufacture/Deliver Sludge Thickening System - MVAC	300	01-Nov-22	27-Aug-23	323																		
<b>Mainstream Bio-Reactor</b>																							
PRE-230	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - AGS system	480	09-Sep-22 A	15-Jul-23	179																		
PRE-530	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Penstocks and stoplogs	345	01-Nov-22	11-Oct-23	282																		
PRE-540	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Chemical storage and dosing system	270	01-Nov-22	28-Jul-23	166																		
PRE-550	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Sludge pre-thickening system	510	10-Oct-22 A	15-Jul-23	179																		
PRE-560	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - LALG	480	01-Nov-22	23-Feb-24	-44																		
PRE-570	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - Instrumentation	450	01-Nov-22	24-Jan-24	268																		
PRE-580	Submit/Procure/Manufacture/Deliver Main Stream Bio-Reactor E&M Equip. - MVAC	210	01-Nov-22	29-May-23	226																		
<b>Tertiary Treatment System</b>																							
PRE-240	Submit/Procure/Manufacture/Deliver TTS Equip. - Disc Filter	600	27-Sep-22 A	23-Apr-24	-125																		
PRE-590	Submit/Procure/Manufacture/Deliver TTS Equip. - Chemical cleaning system	480	01-Nov-22	23-Feb-24	-65																		
PRE-600	Submit/Procure/Manufacture/Deliver TTS Equip. - UV disinfection system	510	08-Sep-22 A	01-Jul-23	172																		
PRE-610	Submit/Procure/Manufacture/Deliver TTS Equip. - Pumping system	495	19-Jul-22 A	01-Jul-23	172																		
PRE-620	Submit/Procure/Manufacture/Deliver TTS Equip. - LALG	180	01-Nov-22	29-Apr-23	235																		
PRE-630	Submit/Procure/Manufacture/Deliver TTS Equip. - Penstocks and stoplogs	435	01-Nov-22	09-Jan-24	-20																		
PRE-690	Submit/Procure/Manufacture/Deliver TTS Equip. - DOU-02	330	01-Nov-22	26-Sep-23	85																		
<b>Electrical and Control System</b>																							
PRE-640	Submit/Procure/Manufacture/Deliver Electrical and Control System - HVSB and Tx	270	27-Oct-21 A	28-Jul-23	-79																		
PRE-650	Submit/Procure/Manufacture/Deliver Electrical and Control System - LVSB	277	21-Oct-22 A	28-Jul-23	-79																		
PRE-660	Submit/Procure/Manufacture/Deliver Electrical and Control System - UPS	150	16-Mar-22 A	30-Mar-23	137																		
PRE-670	Submit/Procure/Manufacture/Deliver Electrical and Control System - Armoured Cable	270	01-Nov-22	28-Jul-23	-154																		
PRE-680	Submit/Procure/Manufacture/Deliver Electrical and Control System - SCADA and instrumentation	420	04-May-22 A	25-Dec-23	-52																		
<b>PM and Contractor Accommodation</b>																							
<b>Project Manager's &amp; Contractor Site Accommodation</b>																							
<b>MIC Section</b>																							
PMCA-190	Installation of Green Roof	16	09-Nov-21 A	17-Nov-22	1608																		
<b>Caving System</b>																							
PMCA-270	Completion of Caving system	0		19-Oct-22 A																			
<b>Statutory Submission &amp; Approval</b>																							
<b>FSI, FSD and OP Requirements</b>																							
<b>FSI Submission &amp; Approval</b>																							
FSD-1030	PM Review	31	12-Nov-21 A	28-Nov-22	61																		
FSD-1040	Submission Period for FSD Review (Assumed 12 Months) - Full GBP+GBP for TOP1	367	29-Nov-22	30-Nov-23	61																		
<b>Application Form Schedule EMSD (ATAL)</b>																							
<b>Phase 1</b>																							
ATAL-FS-0010	Form 104 for Biogas Holder Tank 1 (Submission and Approval Period)	184	02-May-22 A	01-May-23	1317																		
<b>HAZOP Study</b>																							



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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	October				November				December				January				February	
						24				25				26				27				28	
						02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29
HAZOP-010	Engage Independent Consultant	20	01-Nov-22	20-Nov-22	-138	Engage Independent Consultant																	
<b>IW and PST</b>																							
HAZOP-Z1-010	HAZOP - Review Design / Installation HAZOP for IW PPST by independent consultant	30	21-Nov-22	20-Dec-22	-138	HAZOP - Review Design / Installation HAZOP for IW PPST by independent consultant																	
HAZOP-Z1-020	HAZOP - Re-submission of Design / Installation methodology	20	21-Dec-22	09-Jan-23	-138	HAZOP - Re-submission of Design / Installation methodology																	
HAZOP-Z1-030	HAZOP - Obtain Approval	7	10-Jan-23	16-Jan-23	-138	HAZOP - Obtain Approval																	
<b>AGS System</b>																							
HAZOP-Z2-010	HAZOP - Review Design / Installation HAZOP for AGS by independent consultant	30	21-Dec-22	19-Jan-23	329	HAZOP - Review Design / Installation HAZOP for AGS by independent consultant																	
HAZOP-Z2-020	HAZOP - Re-submission of Design / Installation methodology	20	20-Jan-23	08-Feb-23	329	HAZOP - Re-submission of Design / Installation methodology																	
<b>TTS System</b>																							
HAZOP-Z2-30	HAZOP - Review Design / Installation HAZOP for TTS by independent consultant	30	21-Nov-22	20-Dec-22	338	HAZOP - Review Design / Installation HAZOP for TTS by independent consultant																	
HAZOP-Z2-40	HAZOP - Re-submission of Design / Installation methodology	20	21-Dec-22	09-Jan-23	338	HAZOP - Re-submission of Design / Installation methodology																	
HAZOP-Z2-50	HAZOP - Obtain Approval	7	10-Jan-23	16-Jan-23	338	HAZOP - Obtain Approval																	
<b>Biogas H2S Removal System</b>																							
HAZOP-Z3-010	HAZOP - Review Design / Installation HAZOP for Biogas H2S Removal System by independent consultant	30	21-Dec-22	19-Jan-23	67	HAZOP - Review Design / Installation HAZOP for Biogas H2S Removal System by independent consultant																	
HAZOP-Z3-020	HAZOP - Re-submission of Design / Installation methodology	20	20-Jan-23	08-Feb-23	67	HAZOP - Re-submission of Design / Installation methodology																	
<b>Sludge Thickening and Chemical System</b>																							
HAZOP-Z3-30	HAZOP - Review Design / Installation HAZOP for STB by independent consultant	30	21-Nov-22	20-Dec-22	546	HAZOP - Review Design / Installation HAZOP for STB by independent consultant																	
HAZOP-Z3-40	HAZOP - Re-submission of Design / Installation methodology	20	21-Dec-22	09-Jan-23	546	HAZOP - Re-submission of Design / Installation methodology																	
HAZOP-Z3-50	HAZOP - Obtain Approval	7	10-Jan-23	16-Jan-23	546	HAZOP - Obtain Approval																	
<b>Sludge Digestion System</b>																							
HAZOP-Z3-60	HAZOP - Review Design / Installation HAZOP for SDT by independent consultant	30	21-Nov-22	20-Dec-22	233	HAZOP - Review Design / Installation HAZOP for SDT by independent consultant																	
HAZOP-Z3-70	HAZOP - Re-submission of Design / Installation methodology	20	21-Dec-22	09-Jan-23	233	HAZOP - Re-submission of Design / Installation methodology																	
HAZOP-Z3-80	HAZOP - Obtain Approval	7	10-Jan-23	16-Jan-23	233	HAZOP - Obtain Approval																	
<b>DOU and PSW System</b>																							
HAZOP-Z3-100	HAZOP - Re-submission of Design / Installation methodology	20	21-Dec-22	09-Jan-23	110	HAZOP - Re-submission of Design / Installation methodology																	
HAZOP-Z3-110	HAZOP - Obtain Approval	7	10-Jan-23	16-Jan-23	110	HAZOP - Obtain Approval																	
HAZOP-Z3-90	HAZOP - Review Design / Installation HAZOP for DOU and PSW by independent consultant	30	21-Nov-22	20-Dec-22	110	HAZOP - Review Design / Installation HAZOP for DOU and PSW by independent consultant																	
<b>General Advance Works</b>																							
<b>NSWSPS Sensors</b>																							
ATALGA-1160	CGS - Method Statement for Installation	101	03-Aug-21 A	21-Nov-22	451	CGS - Method Statement for Installation																	
ATALGA-1170	Procurement & Delivery of Sensor	101	03-Aug-21 A	21-Nov-22	451	Procurement & Delivery of Sensor																	
ATALGA-1260	Installation of pressure sensors at NSWSPS	22	22-Nov-22	16-Dec-22	358	Installation of pressure sensors at NSWSPS																	
<b>Disc Filter (DF) Pilot Plant</b>																							
ATALGA-1190	T&C	22	22-Sep-22 A	15-Nov-22	385	T&C																	
<b>Dissolved Air Flotation (DAF) Pilot Plant</b>																							
ATALGA-1200	T&C	11	21-Jul-22 A	12-Nov-22	243	T&C																	
ATALGA-1220	Post-commissioning	144	14-Nov-22	16-May-23	243	Post-commissioning																	
<b>Aerobic Granular Sludge (AGS) Pilot Plant</b>																							
ATALGA-1210	Seeding, process start-up and T&C	52	16-Jun-22 A	12-Nov-22	248	Seeding, process start-up and T&C																	
ATALGA-1270	Post-commissioning	139	14-Nov-22	10-May-23	248	Post-commissioning																	
<b>Zone 1 Construction</b>																							
<b>Inlet Works (IW)</b>																							
<b>IW Foundation &amp; ELS Works</b>																							
<b>IW Basement</b>																							
<b>IW Excavation Works &amp; ELS</b>																							
<b>IW Zone A/D- ELS</b>																							
Z1-IW-5770	IW- Strutting: 1st Layer @+4.0mPD	10	15-Aug-22 A	19-Nov-22	-115	IW- Strutting: 1st Layer @+4.0mPD																	
Z1-IW-5780	IW- Excavation: 2nd Layer +3.5 ~ 1.0mPD	5	21-Nov-22	25-Nov-22	-115	IW- Excavation: 2nd Layer +3.5 ~ 1.0mPD																	



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						02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22
Z1-IW-5790	IW- Strutting: 2nd Layer @+1.5mPD	10	26-Nov-22	07-Dec-22	-115																	
Z1-IW-5800	IW- Excavation: 3rd Layer +1.0 ~ - 1.625mPD	8	08-Dec-22	16-Dec-22	-115																	
Z1-IW-5810	IW- Strutting: 3rd Layer @-1.125mPD	10	17-Dec-22	30-Dec-22	-115																	
Z1-IW-5820	IW- Excavation: 4th Layer -1.625 ~ -3.38mPD	7	31-Dec-22	09-Jan-23	-115																	
<b>IW Zone C - ELS</b>																						
Z1-IW-5670	IW- Excavation: 2nd layer +3.5~+1.0mPD	9	26-Sep-22 A	22-Oct-22 A																		
Z1-IW-5680	IW- Strutting: 2nd Layer @+2.50mPD	10	24-Oct-22 A	16-Nov-22	-107																	
Z1-IW-5690	IW- Excavation: 3rd Layer +1.0~-1.625mPD	10	17-Nov-22	28-Nov-22	-107																	
Z1-IW-5700	IW- Backprop installation	7	22-Dec-22	31-Dec-22	-107																	
Z1-IW-5710	IW- Excavation to Formation -1.625~-3.125mPD	5	03-Jan-23	07-Jan-23	-107																	
<b>IW Base Slab</b>																						
Z1-IW-6060	IW- Zone D - Pile Cap @-3.225mPD	27	10-Jan-23	16-Feb-23	-115																	
Z1-IW-6070	IW- Zone C - Pile Cap @-1.625mPD	20	29-Nov-22	21-Dec-22	-107																	
Z1-IW-6080	IW- Zone C - Pile Cap @-3.05mPD	27	09-Jan-23	15-Feb-23	-107																	
<b>Primary Sedimentation Tank (PST)</b>																						
<b>PST Stage 1</b>																						
<b>Basement RC Works (Stage 1 - Southern Portion)</b>																						
<b>Southern Trench (Zone B)</b>																						
Z1-PST-3630	PST(S1) - Install Reprops R1	3	17-Nov-22	19-Nov-22	-115																	
Z1-PST-3640	PST(S1) - Wall Erection of Formworks and RC Works (Ground Level)	10	24-Oct-22 A	08-Nov-22	-112																	
Z1-PST-3800	PST(S1) - Removal of S1	2	28-Sep-22 A	22-Oct-22 A																		
<b>Northern Trench (Zone E1)</b>																						
Z1-PST-3620	PST(S1) - Base Slab & Wall Erection of Formworks and RC Works (-1.125 mPD)	9	12-Sep-22 A	18-Oct-22 A																		
Z1-PST-4240	PST(S1) - Removal of S1	2	01-Nov-22	02-Nov-22	-141																	
Z1-PST-4260	PST(S1) - Wall Erection of Formworks and RC Works (Ground Level)	9	03-Nov-22	12-Nov-22	-141																	
<b>Base Slab between Zone B and E1 (Zone B2)</b>																						
Z1-PST-4572	PST(S1) - Excavation F.E.L. Level	9	08-Oct-22 A	28-Oct-22 A																		
Z1-PST-4582	PST(S1) - Base Slab	20	29-Oct-22 A	16-Nov-22	-139																	
<b>Excavation Works (North Portion), (Excavation Volume: 3,840m3)</b>																						
Z1-PST-4180	PST(S1) - Excavation F.E.L. Level (+1.875 mPD) (3,840m3, 1000m3/day) after stage 2 piling	8	10-Nov-22	18-Nov-22	-141																	
<b>Basement RC Works (North Portion)</b>																						
Z1-PST-4190	PST(S1) - Base Slab & Wall Erection of Formworks and RC Works (+3.00 mPD) after stage 2 piling	14	19-Nov-22	05-Dec-22	-141																	
Z1-PST-4200	PST(S1) - Wall Erection of Formworks and RC Works (Ground Level) after stage 2 piling	6	06-Dec-22	12-Dec-22	-141																	
<b>PST Stage 2 of Works</b>																						
<b>PST Foundation - Stage 2 (At Remaining 2 Tanks, PST 5-6 Footprint)</b>																						
Z1-PST-3980	PST Stage 2 - Pile Loading Test (Batch 2 PST: 75nos.+8 nos. of piles at TX1+Additional Piles)	13	26-Oct-22 A	04-Nov-22	-137																	
Z1-PST-4230	PST Stage 2 - Submit to GEO (28d)	28	01-Nov-22	28-Nov-22	72																	
<b>PST Stage 2a Basement Construction Works</b>																						
<b>Excavation Works</b>																						
Z1-PST-4302	PST Stage 2a - Excavation Level (+1.875 mPD) (4,656m3, 800m3/day)	6	05-Nov-22	11-Nov-22	94																	
Z1-PST-4312	PST Stage 2a - Excavation FEL Level (-1.125 mPD & -1.625mPD) (2,086m3, 500m3/day)	4	12-Nov-22	16-Nov-22	94																	
<b>Basement RC Works</b>																						
Z1-PST-4322	PST Stage 2a - Base Slab & Wall Erection of Formworks and RC Works (+3.00 mPD)	10	15-Dec-22	28-Dec-22	94																	
Z1-PST-4332	PST Stage 2a - Wall Erection of Formworks and RC Works (+3.85 mPD)	7	29-Dec-22	06-Jan-23	94																	
Z1-PST-4352	PST Stage 2a - Wall Erection of Formworks and RC Works (Ground Level)	11	07-Jan-23	19-Jan-23	94																	
Z1-PST-4372	PST Stage 2a - Base Slab & Wall Erection of Formworks and RC Works (+0.15 mPD)	14	17-Nov-22	02-Dec-22	94																	
Z1-PST-4382	PST Stage 2a - Wall Erection of Formworks and RC Works (+1.875 mPD)	10	03-Dec-22	14-Dec-22	94																	
<b>PST Superstructure</b>																						



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						24					25					26					27					28
						02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29	05		
<b>Stage 1</b>																										
<b>RC Works</b>																										
Z1-PST-3660	PST - Wall Erection of Formworks and RC Works (+7.5mPD)	8	13-Dec-22	21-Dec-22	-141																					
Z1-PST-3670	PST - Intermediate Slab (+7.88mPD) and Wall Erection (+9mPD) of Falseworks, Formworks and RC Works	10	22-Dec-22	05-Jan-23	-141																					
Z1-PST-3680	PST - Intermediate Slab of Falseworks, Formworks and RC Works (+9mPD)	15	06-Jan-23	30-Jan-23	-141																					
<b>Stage 2a</b>																										
<b>RC Works</b>																										
Z1-PST-4432	PST - Wall Erection of Formworks and RC Works (+7.5mPD)	6	27-Jan-23	02-Feb-23	94																					
<b>PST Stage 1 - Early T&amp;C (Delink PST Stage 1 Commissioning from IW)</b>																										
Z2D-2160	Complete Demolition of PST4	0		05-Nov-22	133																					
<b>CLP Substations No. 1 &amp; 2</b>																										
<b>Civil Provision for CLP (drawpits &amp; ductings)</b>																										
CLP-1270	Ducting and Drawpits construction	45	01-Nov-22	22-Dec-22	-4																					
<b>CLP Substation No. 1</b>																										
CLP-1040	CLP Substation No.1 - BS and ABWF Works	30	10-Nov-22	14-Dec-22	-58																					
CLP-1070	CLP Substation No.1 - CLP Installation	90	23-Dec-22	21-Apr-23	-4																					
CLP-1280	CLP Substation No.1 - Structure Level +6 to +11.73mPD (1/F) incl. Waterproofing and Testing	14	08-Oct-22 A	09-Nov-22	-58																					
CLP-1290	CLP Substation No.1 - Structure Level +11.73 to +13.11mPD (R/F)	12	08-Nov-22	21-Nov-22	-38																					
CLP-1340	CLP Substation No.1 - E&M Installation	26	15-Nov-22	14-Dec-22	-58																					
<b>CLP Substation No. 2</b>																										
CLP-1050	CLP Substation No.2 - BS and ABWF Works	30	10-Nov-22	14-Dec-22	-58																					
CLP-1080	CLP Substation No.2 - CLP Installation	90	23-Dec-22	21-Apr-23	-4																					
CLP-1140	CLP Substation 1 & 2 - Ready for Handover to CLP and Early Section 1 Completion	0		14-Dec-22	-58																					
CLP-1300	CLP Substation No.2 - Structure Level +6 to +11.73mPD (1/F) incl. Waterproofing and Testing	14	08-Oct-22 A	09-Nov-22	-58																					
CLP-1310	CLP Substation No.2 - Structure Level +11.73 to +13.11mPD (R/F)	12	08-Nov-22	21-Nov-22	-38																					
CLP-1350	CLP Substation No.2 - E&M Installation	26	15-Nov-22	14-Dec-22	-58																					
<b>DSD 11kV Switchgear</b>																										
CLP-1060	DSD11KV Switchgear - BS and ABWF Works (excl. GRC Cladding Installation)	32	17-Nov-22	23-Dec-22	65																					
CLP-1110	DSD11KV Switchgear - Installation	78	24-Dec-22	04-Apr-23	65																					
CLP-1320	DSD11KV Switchgear - Structure Level +6 to +11.73mPD (1/F)	20	26-Oct-22 A	12-Nov-22	68																					
CLP-1330	DSD11KV Switchgear - Structure Level +11.73 to +13.11mPD (R/F)	12	14-Nov-22	26-Nov-22	70																					
<b>Sludge Dewatering Building (SDB)</b>																										
<b>SDB Foundation &amp; ELS - Stage 1</b>																										
<b>SDB GI - Pre-drilling Works</b>																										
<b>SDB At PST 2,4 Footprint</b>																										
SDB-1350	PD4 w/ obstruction (PST4)	12	07-Nov-22	19-Nov-22	267																					
SDB-1360	PD5 w/ obstruction (PST4)	12	07-Nov-22	19-Nov-22	267																					
<b>Administration Building (ADB)</b>																										
<b>Temporary Admin Office and Control Room</b>																										
ADB-1040	Handover of Temp. Admin Office and Control Room	20	16-Nov-22	08-Dec-22	167																					
<b>Temp Admin Office - MiC Section</b>																										
ADB-1020A20	Construction/Installation	41	22-Jul-22 A	03-Nov-22	177																					
ADB-1020A30	E&M Installation and T&C	24	15-Aug-22 A	15-Nov-22	167																					
ADB-1020A40	Relocation of Admin Office (MiC)	18	16-Nov-22	06-Dec-22	169																					
ADB-1020A90	Completion of Admin Office (MiC)	0		06-Dec-22	170																					
<b>ADB Demolition</b>																										
ADB-1050	Demolition of Admin Bldg (23) and Document Centre (24)	20	10-Dec-22	05-Jan-23	167																					
ADB-1250	Relocation of Existing SCADA System of Admin Bldg (23) and Document Centre (24)	21	16-Nov-22	09-Dec-22	167																					



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						02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29	05			
<b>Zone 2 Construction</b>																											
<b>Temporary Diversion</b>																											
<b>Zone 2B : FST, Temporary RAS to Aeration Tanks</b>																											
<b>Temporary RAS</b>																											
Z2B-1040	Temp RAS E&M installation *Calendar Day	18	15-Sep-22 A	01-Nov-22	-102	Temp RAS E&M installation *Calendar Day																					
Z2B-1180	Complete Zone 2B Temporary Diversion	0		09-Nov-22	-85	◆ Complete Zone 2B Temporary Diversion																					
Z2B-1190	Break Wall for connection to temporary RAS & Switch over	4	10-Nov-22	14-Nov-22	-85	■ Break Wall for connection to temporary RAS & Switch over																					
Z2B-1200	Laying of pipes from temp. RAS to Consolidation tanks & Aeration tanks	25	19-Aug-22 A	02-Nov-22	-85	■ Laying of pipes from temp. RAS to Consolidation tanks & Aeration tanks																					
Z2B-1210	T&C *Calendar Day	7	03-Nov-22	09-Nov-22	-103	■ T&C *Calendar Day																					
Z2B-1220	Plug-off abandoned pipes	1	15-Nov-22	15-Nov-22	-85	■ Plug-off abandoned pipes																					
Z2B-1230	Watertightness test to temp. RAS pumping station	7	30-Sep-22 A	27-Oct-22 A		■ Watertightness test to temp. RAS pumping station																					
<b>Demolition Works</b>																											
<b>Advance Works</b>																											
MBR-1540	MBR- G.I. Works batch 2 (4 nos., 1rig, nos. of G.I. subject to GEO Further Comment)	60	08-Jul-22 A	17-Nov-22	-38	■ MBR- G.I. Works batch 2 (4 nos., 1rig, nos. of G.I. subject to GEO Further Comment)																					
<b>Other Existing Pumping Stations</b>																											
Z2T-152	Demolition of Return Activated Sludge Screw Pumps PS (16) & Chamber (33)	40	15-Nov-22	03-Jan-23	-80	■ Demolition of Return Activated Sludge Screw Pumps PS (16) & Chamber (33)																					
Z2T-154	Demolition of Flow Measurement Chamber (34) & SSD Chamber (32)	40	15-Nov-22	03-Jan-23	-80	■ Demolition of Flow Measurement Chamber (34) & SSD Chamber (32)																					
<b>Final Sedimentation Tanks</b>																											
Z2T-200	Demolition of Mixed Liquor Distribution and Sludge Draw-off Chamber (37)	20	01-Nov-22	23-Nov-22	-72	■ Demolition of Mixed Liquor Distribution and Sludge Draw-off Chamber (37)																					
<b>Mainstream Bio-Reactor &amp; Auxiliary Facility (MBR and AF)</b>																											
<b>MBR and AF Structure</b>																											
<b>MBR - ELS Excavation &amp; Demolition stage 1</b>																											
MBRAF-1460	MBR - Monitoring Installation	18	17-Nov-22	07-Dec-22	-55	■ MBR - Monitoring Installation																					
MBRAF-1540	MBR - Backfilling, advance coring for king post installation & wells installation	25	15-Jun-22 A	16-Nov-22	-59	■ MBR - Backfilling, advance coring for king post installation & wells installation																					
MBRAF-2090	Installation of king post by preboring (affected by existing A-tank)	30	17-Nov-22	21-Dec-22	-59	■ Installation of king post by preboring (affected by existing A-tank)																					
MBRAF-2270	Installation of king post by preboring (affected by existing RAS)	13	04-Jan-23	18-Jan-23	-80	■ Installation of king post by preboring (affected by existing RAS)																					
<b>Southern Side</b>																											
<b>Demolishing of PST 4</b>																											
MBRAF-2030	Demolishing 3/4 area of PST 4	20	30-Sep-22 A	01-Nov-22	-88	■ Demolishing 3/4 area of PST 4																					
MBRAF-2040	Backfilling of PST 4	12	21-Oct-22 A	05-Nov-22	-72	■ Backfilling of PST 4																					
<b>Installation of 813mm casing</b>																											
MBRAF-2080	813 Casing Installation (South) (P195-P242, 48nos.@1.5 nos./day/rig, 1 rig) (after PST4 demolished)	32	07-Dec-22	16-Jan-23	-96	■ 813 Casing Installation (South) (P195-P242, 48nos.@1.5 nos./day/rig, 1 rig) (after PST4 demolished)																					
MBRAF-2340	813 Casing Installation (South) (P167-194, 28nos.@1.5 nos./day/rig, 1 rig)	19	29-Oct-22 A	06-Dec-22	-98	■ 813 Casing Installation (South) (P167-194, 28nos.@1.5 nos./day/rig, 1 rig)																					
<b>Eastern Side</b>																											
<b>Demolition of A-Tank</b>																											
MBRAF-2140	Demolishing of Existing Structure (above)	7	20-Sep-22 A	31-Oct-22 A		■ Demolishing of Existing Structure (above)																					
<b>UU Diversion</b>																											
MBRAF-2120	375 Storm Drain Diversion	30	01-Nov-22	05-Dec-22	-87	■ 375 Storm Drain Diversion																					
<b>Installation of 813mm casing</b>																											
MBRAF-2150	813 Casing Installation (East)(P067-P020, 48nos@ 1.5nos./day/rig, 1 rig) (affected by A-Tank)	32	24-Sep-22 A	12-Nov-22	-44	■ 813 Casing Installation (East)(P067-P020, 48nos@ 1.5nos./day/rig, 1 rig) (affected by A-Tank)																					
MBRAF-2160	813 Casing Installation (East)(P068-P100, 33nos@ 1.5nos./day/rig, 1 rig) (affected by UU diversion)	22	06-Dec-22	03-Jan-23	-85	■ 813 Casing Installation (East)(P068-P100, 33nos@ 1.5nos./day/rig, 1 rig) (affected by UU diversion)																					
<b>Northern Side</b>																											
<b>UU Diversion</b>																											
MBRAF-2170	Air duct - Cut and remove	18	22-Aug-22 A	03-Nov-22	-79	■ Air duct - Cut and remove																					
MBRAF-2190	450 Foul pipe - Cut and remove	30	20-Sep-22 A	26-Nov-22	-88	■ 450 Foul pipe - Cut and remove																					
MBRAF-2200	Conc. Blk. Installation and Backfilling Working Platform (NW and NE Corners)	20	08-Sep-22 A	21-Nov-22	-88	■ Conc. Blk. Installation and Backfilling Working Platform (NW and NE Corners)																					
MBRAF-2320	Remove the existing wall and penstock x 10nos (to be reserved)	12	01-Nov-22	14-Nov-22	-88	■ Remove the existing wall and penstock x 10nos (to be reserved)																					
<b>Installation of 813mm casing</b>																											



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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	October				November				December				January				February	
						24				25				26				27				28	
						02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22	29
Z3A-000110	Decommission Works for Existing Utilities Gallery	10	01-Nov-22	11-Nov-22	-118																		
<b>Zone 3 North Portion (Z3N)</b>																							
<b>Demolition</b>																							
<b>Existing Sludge Thickening House (8, Air Floatation Thickener)</b>																							
Z3S2-2030	Demolition of Existing Sludge Thickening House (8, Air Floatation Thickener) - Zone 1	12	26-Sep-22 A	04-Oct-22 A																			
Z3S2-2030a	Demolition of Existing Sludge Thickening House (8, Air Floatation Thickener) - Zone 3 (affected by Zone 2B Diversi	15	15-Nov-22	01-Dec-22	-56																		
Z3S2-2030c	Backfilling of Existing Sludge Thickening House (8, Air Floatation Thickener) - Zone 2	3	05-Oct-22 A	08-Oct-22 A																			
Z3S2-2040	Demolition of Consolidation Tank (7) C1 & C2	7	01-Nov-22	08-Nov-22	-7																		
<b>New Sludge Thickening Building (STB)</b>																							
<b>STB : Predrilling Works</b>																							
Z3S1a.7-70	Complete Predrilling Works for STB	0		23-Nov-22	9																		
Z3S3-3480	Predrilling Works (2 nos. STB-PD7,9)	20	01-Nov-22	23-Nov-22	-65																		
Z3S3-3490	Environment GI (4 nos., 7d/no., 2 rigs) & Submit RAP Report to EPD (30 days)	20	15-Nov-22	07-Dec-22	-39																		
<b>STB : Driven H-pile</b>																							
<b>Batch 1</b>																							
Z3S3-2091	STB - H-pile Testing (Batch 1)	21	01-Nov-22	24-Nov-22	-50																		
Z3S3-3370	STB - Submit to GEO (28d) (Batch 1)	28	25-Nov-22	29-Dec-22	81																		
Z3S3-3520	STB - Driven H-pile Zone P2 (33 nos., 1400m) @70m/day, 2rigs	24	11-Oct-22 A	29-Oct-22 A																			
Z3S3-3530	STB - Driven H-pile Zone P2A (5 nos., 265m) @40m/day, 1rig	7	12-Oct-22 A	29-Oct-22 A																			
Z3S3-3540	STB - Driven H-pile Zone P3 (12 nos., 636m) @30m/day, 1rig	21	17-Sep-22 A	31-Oct-22 A																			
Z3S3-3560	STB - Driven H-pile Zone P5 (1no) @40m/day, 1rig	9	26-Oct-22 A	29-Oct-22 A																			
Z3S3-3590	STB - Driven H-pile Finish (Batch 1)	0		31-Oct-22 A																			
Z3S3-3680	STB - Driven H-pile Zone P2B (5nos.) @40m/day, 1rig	7	20-Oct-22 A	31-Oct-22 A																			
<b>STB : Foundation and ELS</b>																							
<b>STB Stage 1 ELS</b>																							
Z3S3-2180	STB - Sheetpile Installation (3,997m2 @90m2/d/rig, 1rig) (Stage 1)	38	13-Dec-22	04-Feb-23	-65																		
<b>Utility Corridor (UC5) (Connect to STB)</b>																							
<b>UC5 : Foundation and ELS Works</b>																							
Z3S2-3070	UC5 - Site Setup & Mobilization	6	12-Nov-22	18-Nov-22	-65																		
Z3S2-3080	UC5 - Sheetpile Installation (1,806m2 @90m2/d)	20	19-Nov-22	12-Dec-22	-65																		
Z3S2-3090	UC5 - Monitoring Installation and Pumping Test	21	08-Dec-22	28-Dec-22	-61																		
Z3S2-3100	UC5 - ELS, Excavation (+6.0 to +4.0mPD) (526m3, 300m3/d)	2	29-Dec-22	30-Dec-22	-50																		
Z3S2-3110	UC5 - ELS, Strut Installation S1 (+4.0mPD)	5	31-Dec-22	06-Jan-23	-50																		
Z3S2-3120	UC5 - Marine Sediments Treatment and Disposal	14	31-Dec-22	17-Jan-23	-43																		
Z3S2-3130	UC5 - ELS, Excavation (+4.0 to -0.5mPD) (1184m3, 200m3/d)	6	07-Jan-23	13-Jan-23	-50																		
Z3S2-3140	UC5 - ELS, Strut Installation S2 (0mPD)	5	14-Jan-23	19-Jan-23	-50																		
Z3S2-3170	UC5 - ELS, Excavation (-0.5 to -4.125mPD) (953m3, 200m3/d)	5	27-Jan-23	01-Feb-23	-50																		
<b>Zone 3 South Portion (Z3S)</b>																							
<b>Demolition</b>																							
<b>Existing Sludge Holding Tank SHT 1 (10)</b>																							
Z3S1a.7-60	Completion Connection to Temporary SHT & Dewatering House	0		17-Oct-22 A																			
Z3S2-2010	Demolition of SHT 2 (10) (partial demolished, remaining demolish during ELS stage)	20	24-Oct-22 A	31-Oct-22 A																			
Z3S2.5-10	Demolition of Existing Water Heater House	25	18-Oct-22 A	31-Oct-22 A																			
<b>Sludge Digester No. 1-3 (SD1-3)</b>																							
<b>SD1-3 : Foundation and ELS</b>																							
<b>SD1-3 : Sheetpiling</b>																							
Z3S3-2060	Sludge Digester No. 1-3 - Sheet Piles Install Portion 2 (4,636m2, 120m2/d/rig, 1rig)	36	19-Sep-22 A	28-Dec-22	-75																		
Z3S3-3350	Sludge Digester No. 1-3 - Monitoring Installation and Pumping Test	28	06-Dec-22	02-Jan-23	-97																		



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Activity ID	Activity Name	Orig Dur	Early Start	Early Finish	Total Float	October					November				December				January			February
						24					25				26				27			28
						02	09	16	23	30	06	13	20	27	04	11	18	25	01	08	15	22
<b>SD1-3 : Excavation and Strut Installation</b>																						
Z3S3-2110	Sludge Digester No. 1-3 - ELS Excavation (+5.0 to +4.3mPD, 4168m3 @ 500m3/d)	9	03-Jan-23	12-Jan-23	-78																	
Z3S3-2130	Sludge Digester No. 1-3 - Marine Sediments Treatment and Disposal	21	13-Jan-23	13-Feb-23	38																	
Z3S3-2140	Sludge Digester No. 1-3 - Strut Installation S1 (+4.8mPD)	8	13-Jan-23	28-Jan-23	-78																	
<b>Biogas Holder No. 1 (BH1)</b>																						
<b>BH1 : Foundation</b>																						
Z3BH-1000	Biogas Holder No. 1 - Band drain Installation for Ground Improvement	6	22-Nov-22	28-Nov-22	-118																	
Z3BH-1040	Biogas Holder No. 1 - Surcharge (concrete block placing and backfill)	30	06-Dec-22	12-Jan-23	-118																	
Z3BH-1050	Biogas Holder No. 1 - Consolidation	30	13-Jan-23	11-Feb-23	-145																	
Z3BH-1060	Biogas Holder No. 1 - Band drain Installation for Ground Improvement @ SHT 1 and existing water heater house f	6	29-Nov-22	05-Dec-22	-118																	
<b>Zone 3 Middle Portion (Z3M)</b>																						
<b>Sludge Digester No. 4-6 (SD4-6)</b>																						
<b>SD4-6 : Foundation and ELS</b>																						
<b>Pre-drilling Works</b>																						
Z3S8SD-1010	Sludge Digester No. 5-6 - Pre-drill (3 nos. SD-BH1,SD-BH3,SD-BH4)	48	18-Nov-22	16-Jan-23	703																	



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