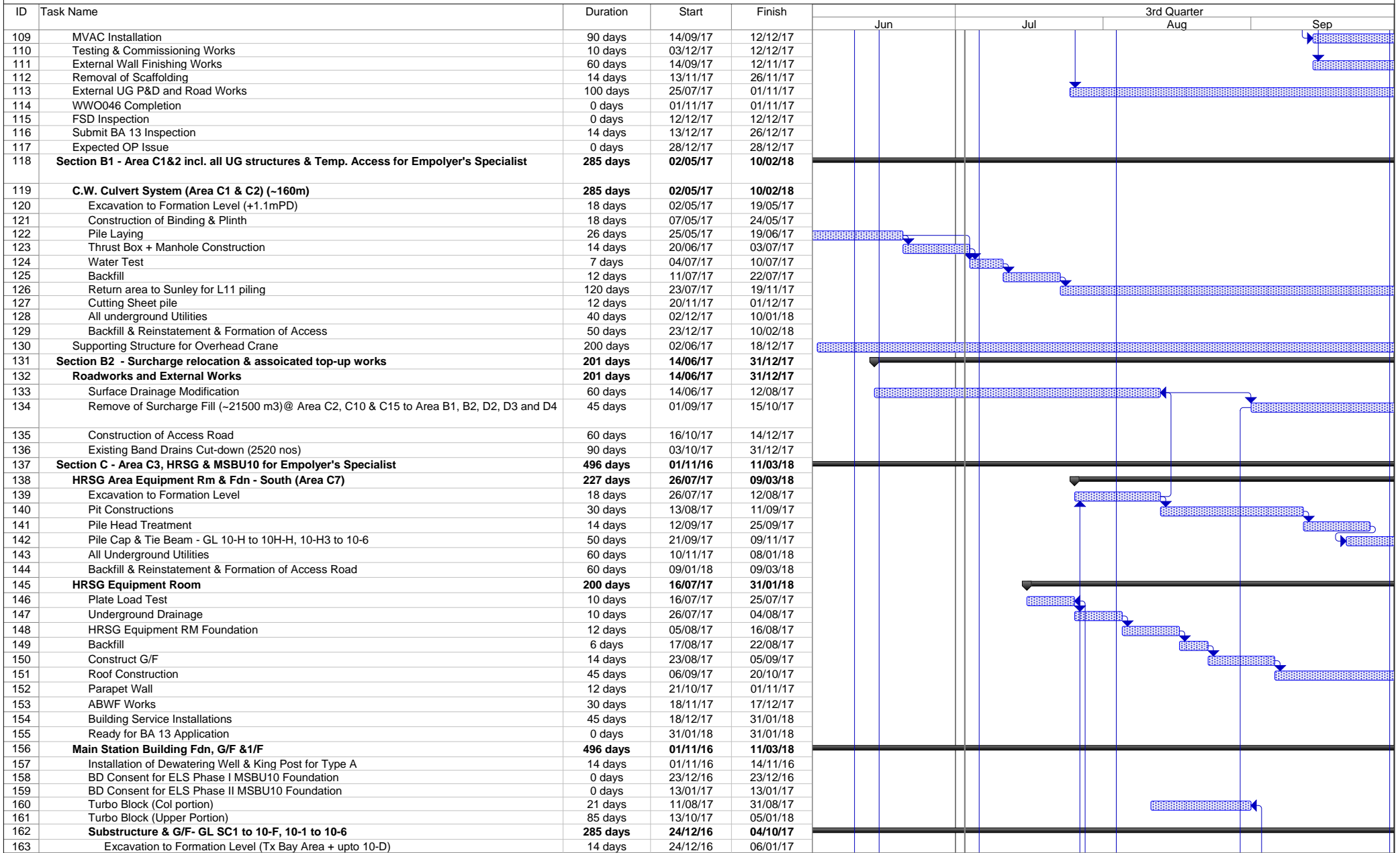
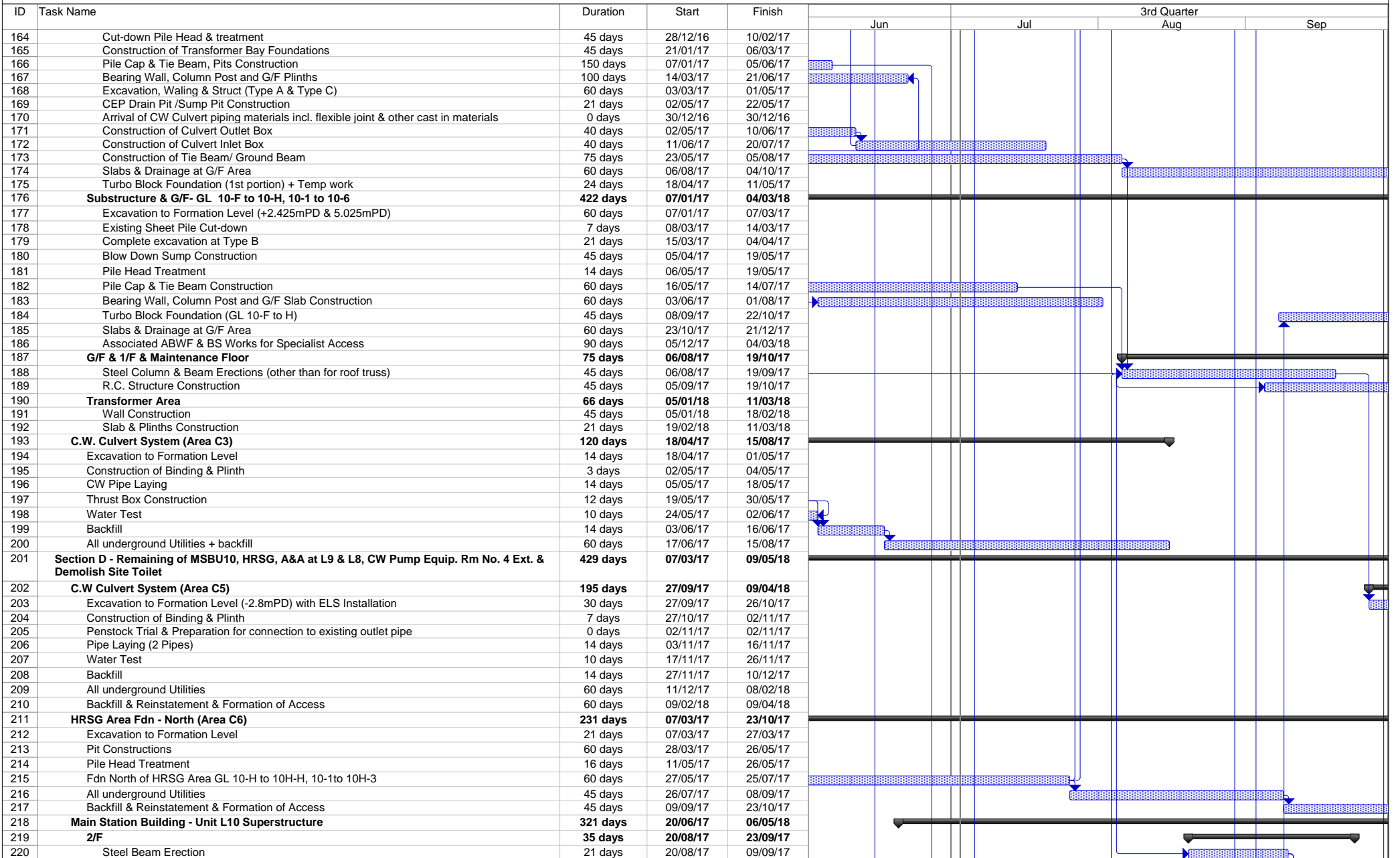
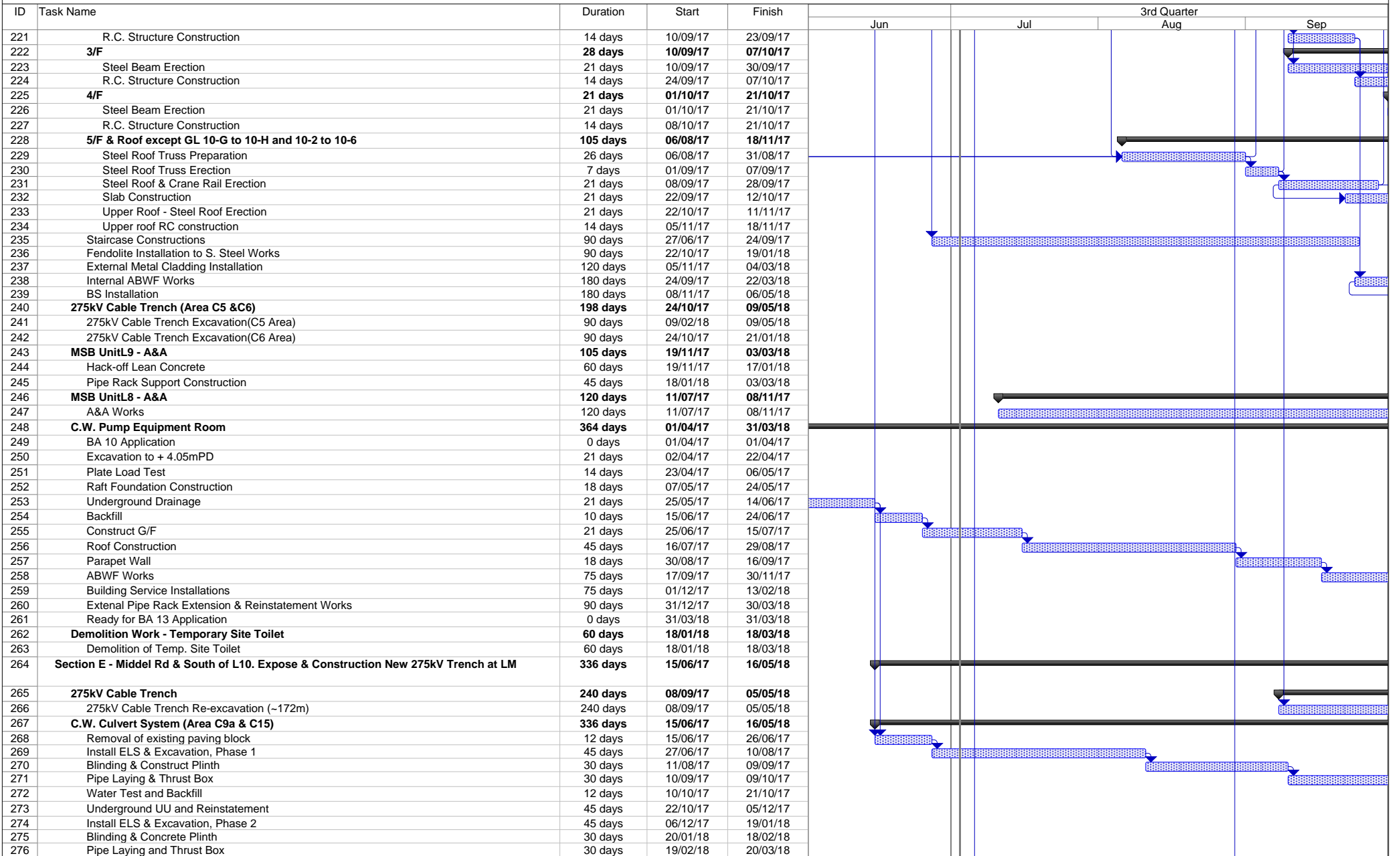


ID	Task Name	Duration	Start	Finish	3rd Quarter			
					Jun	Jul	Aug	Sep
1	<b>Contract Key Date</b>	<b>1308 days</b>	<b>01/11/16</b>	<b>31/05/20</b>				
2	<b>Possession Date</b>	<b>1308 days</b>	<b>01/11/16</b>	<b>31/05/20</b>				
3	Contract Commencement Date	0 days	01/11/16	01/11/16				
4	Section A1 - Modify Plinth at Ext. GRS	61 days	01/11/16	31/12/16				
5	Section A2 - LPS Site Office Building	410 days	14/11/16	28/12/17				
6	Section B1 - Area C1&2 incl. all UG structures & Temp. Access for Employer's Specialist	426 days	12/12/16	10/02/18				
7	Section B2 - Surcharge relocation & associated top-up works	122 days	01/09/17	31/12/17				
8	Section C - Area C3, HRSG & MSBU10 for Employer's Specialist	457 days	10/12/16	11/03/18				
9	Section D - Remaining of MSBU10, HRSG, A&A at L9 & L8, Ext. & Demolish Site Toilet	516 days	10/12/16	09/05/18				
10	Section D - CW Pump Equip. Rm No. 4	365 days	01/04/17	31/03/18				
11	Section E - Middel Rd & South of L10. Expose & Construction New 275kV Trench at LMX	577 days	01/11/16	31/05/18				
12	Section F - Urea Storage & Handling Facilities	488 days	01/05/17	31/08/18				
13	Section G - Demin. Plant Road & No.3 Outfall	273 days	01/01/18	30/09/18				
14	Section G - Modification at No. 4 CW Intake	122 days	01/03/18	30/06/18				
15	Section H1 - Gas Support foundation & trench at Area C11	745 days	01/11/16	15/11/18				
16	Section H2 - GRS Improvement work at Area C10	441 days	01/09/17	15/11/18				
17	Section H3 - L10 Chimney Flue and A&A L9 & pipe rack formation	319 days	01/01/18	15/11/18				
18	Section I1 - Link Bridge & associated A&A	455 days	01/01/18	31/03/19				
19	Section I2 - Shunt Reactor SR4 Foundation	90 days	01/01/19	31/03/19				
20	Section I3 - All remaining work except deferred works	417 days	08/02/18	31/03/19				
21	Section J - Cable Route CPX1&2 cable diversion & whole of work except deferred works to be carried out in DLP	790 days	02/05/17	30/06/19				
22	Deferred works during DLP	336 days	01/07/19	31/05/20				
23	<b>General &amp; Preliminary</b>	<b>537 days</b>	<b>01/11/16</b>	<b>21/04/18</b>				
24	Set up Temporary Site Office and Utilities	30 days	01/11/16	30/11/16				
25	Full Mobilization	14 days	01/11/16	14/11/16				
26	Permit Applications & Statuary Submissions	45 days	08/11/16	22/12/16				
27	Existing Utilities scanning & Excavation Permit	45 days	01/11/16	15/12/16				
28	Foundation of Tower Crane Construction	7 days	28/03/17	03/04/17				
29	Tower Crane Erection	5 days	14/04/17	18/04/17				
30	Removal of Tower Crane (Including Foundation)	18 days	04/04/18	21/04/18				
31	L10 MSB External Scaffolding erection	145 days	06/08/17	28/12/17				
32	L10 MSB External Scaffolding Removal	30 days	05/03/18	03/04/18				
33	<b>Submission and Approval</b>	<b>450 days</b>	<b>01/11/16</b>	<b>24/01/18</b>				
34	Method Statement / Temp Work Submission & Approval from HEC for General Works	240 days	01/11/16	28/06/17				
35	BD Approval & Consent (If required)	90 days	01/12/16	28/02/17				
36	BIM Model, CSD & CBWD Submission & Approval from HEC	200 days	01/12/16	18/06/17				
37	Structure Steelwork Connection Design Submission & BD Approval	30 days	31/12/16	29/01/17				
38	Structure Steelwork Shop Drawing & Approval	30 days	30/01/17	28/02/17				
39	Metal Cladding, louvre & windows submission & BD Approval	60 days	30/01/17	30/03/17				
40	Metal Cladding, louvre & windows shop drawing submission	45 days	14/02/17	30/03/17				
41	Order, Off Site Fabrication and Delivery (S. Steel & Cladding & louvres)	130 days	31/03/17	07/08/17				
42	CW Culvert (Inlet) ELS BD approval & consent	90 days	01/12/16	28/02/17				
43	Submission & Approval of Steel Flue Assessment Report and Design Drawings	210 days	01/12/16	28/06/17				
44	Submission and Approval of Steel Flue Design from BD	60 days	29/06/17	27/08/17				
45	Material Fabrication & Delivery for L10 Flue	150 days	28/08/17	24/01/18				
46	Folding Shutters Shop Drawing Submission & Approval	120 days	01/12/16	30/03/17				
47	Fabrication & Delivery of Folding Shutters	150 days	31/03/17	27/08/17				
48	Sewage Pump System Design submission & Approval	60 days	15/05/17	13/07/17				
49	Fabrication & Delivery of Sewage Pump	150 days	14/07/17	10/12/17				
50	Other Material Submission & Approval & Deliverys	240 days	14/02/17	11/10/17				
51	<b>Coordination with the Employer's Specialist Contractors</b>	<b>534 days</b>	<b>16/05/17</b>	<b>31/10/18</b>				
52	Outlet Culvert Box Vertical Puddle Pipes Installation	7 days	16/05/17	22/05/17				
53	Inlet Culvert Box Vertical Puddle Pipes Installation	7 days	25/06/17	01/07/17				
54	Template setting in at L10 Turbo Block Foundation	45 days	03/11/17	17/12/17				
55	Template setting of holding down bolts at HRSG Column Base	45 days	03/11/17	17/12/17				

ID	Task Name	Duration	Start	Finish	3rd Quarter			
					Jun	Jul	Aug	Sep
56	I-beam/ Channel Base Installation on top of Transformer Foundations at Transformer Area	32 days	08/02/18	11/03/18				
57	Overhead crane rail delivery	0 days	28/09/17	28/09/17				
58	Overhead crane rail installation	18 days	01/12/17	19/12/17				
59	Overhead Crane Erection at Turbine Hall using Access through a Temporary Opening at L10 MSB Roof between GL 10-G to 10-H and 10-2 and 10-6	38 days	19/12/17	25/01/18				
60	Condenser Assembly and Erection using Access through a Temporary Opening at L10 MSB below 1/F along GL 10-6 from GL 10-B to 10-C including a Clear Space below 1/F between GL 10-B to 10-C	89 days	11/02/18	10/05/18				
61	Installation of Power Train Equipment including Air Inlet Duct using Access through a Temporary Façade Opening at L10 MSB below 1/F along GL 10-6 from GL 10-F to 10-H including a Clear Space below 1/F of the above Area	89 days	11/02/18	10/05/18				
62	Installation of Equipment in L10 HRSG Area after the Temporary Paving was Removed to Expose the Respective Foundations by the Contractor	78 days	15/08/18	31/10/18				
63	Installation of Embedded Materials such as Holding Down Bolts for Equipment Foundation	300 days	16/05/17	11/03/18				
64	<b>Section A1 - Modify Plinth at Ext. GRS</b>	<b>61 days</b>	<b>01/11/16</b>	<b>31/12/16</b>				
65	Existing Plinth Removal	18 days	01/11/16	18/11/16				
66	Wall Base & Plinth Construction	45 days	17/11/16	31/12/16				
67	<b>Pipe Rcak at Unit 9 North (VO under EI No. 6)</b>	<b>152 days</b>	<b>29/01/17</b>	<b>30/06/17</b>				
68	Consent and BA10 Submissions	0 days	29/01/17	29/01/17				
69	Hoarding & Plant Load Test	18 days	30/01/17	16/02/17				
70	Footing Construction & Reinstatement	75 days	17/02/17	02/05/17				
71	Structural Steel Fabrication, Delivery & Erection	60 days	02/05/17	30/06/17				
72	<b>Section A2 - LPS Site Office Building</b>	<b>423 days</b>	<b>01/11/16</b>	<b>28/12/17</b>				
73	Submissions of Shop Drawings and Approval	90 days	01/11/16	29/01/17				
74	Submission & Approval of CSD & CBWD	60 days	15/01/17	15/03/17				
75	Complete site clearance by HKE	0 days	01/11/16	01/11/16				
76	Demolish of existing site office	21 days	01/11/16	21/11/16				
77	BA 10 Application	0 days	01/11/16	01/11/16				
78	Erection of Hording	7 days	01/11/16	07/11/16				
79	Plate Load Test	7 days	08/11/16	14/11/16				
80	Installation of Earthing Grid	18 days	15/11/16	02/12/16				
81	Construction of pad footing, bearing wall, columns up to G/F	45 days	03/12/16	16/01/17				
82	Chinese New Year	10 days	27/01/17	05/02/17				
83	Backfill & UG Drainage within Building	75 days	17/01/17	01/04/17				
84	Backfill & Blinding	4 days	02/04/17	05/04/17				
85	Construct G/F on-grade slab & External Scaffold Erection	12 days	06/04/17	17/04/17				
86	RC Walls, Columns and Slab up to 1/F	50 days	18/04/17	06/06/17				
87	RC Walls, Columns and Slab up to R/F	50 days	18/05/17	06/07/17				
88	Parapet Wall, FS Water Tank, Top Roofs + RC curb, hatch door etc	18 days	07/07/17	24/07/17				
89	Waterproofing for Lift pit + Water test	14 days	25/07/17	07/08/17				
90	G/F Window, Louvre, Doors Frame & Shutter Frame	40 days	07/07/17	15/08/17				
91	G/F Finishing Works	55 days	21/07/17	13/09/17				
92	G/F Plumbing & Drainage Works	60 days	14/08/17	12/10/17				
93	G/F Sanitary Fitting and Cubicles	60 days	13/09/17	11/11/17				
94	G/F Other sundry metal, railing, etc	30 days	12/11/17	11/12/17				
95	G/F Placing Furnitures	10 days	17/12/17	26/12/17				
96	1/F Window, Louvre & Door Frames	45 days	21/07/17	03/09/17				
97	1/F Finishing Works	35 days	20/08/17	23/09/17				
98	1/F Plumbing, Sanitary Fittings & Drainage Works	21 days	24/09/17	14/10/17				
99	1/F Other sundry metal, railing, etc	45 days	15/10/17	28/11/17				
100	R+UR/F Waterproofing Installation + Testing	60 days	15/08/17	13/10/17				
101	R/F Finishing Works (incl. Water Tank & FS Pump Room)	30 days	04/10/17	02/11/17				
102	R/F Plumbing Works	14 days	03/11/17	16/11/17				
103	R/F Sundry Metal, Handrail & Glazed Railing	30 days	03/11/17	02/12/17				
104	Installation of Door a& Shutter leaves	30 days	03/11/17	02/12/17				
105	Handover of lift shaft	0 days	07/08/17	07/08/17				
106	Lift Installation + EMSD Inspection + Issue of Lift Cert	120 days	08/08/17	05/12/17				
107	Electrial Installation	90 days	14/09/17	12/12/17				
108	Fire Service Installation	90 days	14/09/17	12/12/17				









ID	Task Name	Duration	Start	Finish	3rd Quarter			
					Jun	Jul	Aug	Sep
277	Water Test & Backfill	12 days	21/03/18	01/04/18				
278	Underground UU and Reinstatement	45 days	02/04/18	16/05/18				
279	<b>Section F -Urea Storage &amp; Handling Facilities</b>	<b>488 days</b>	<b>01/05/17</b>	<b>31/08/18</b>				
280	<b>Urea Handling &amp; Storage Plant House, Electrical Room &amp; Pipe Rack</b>	<b>488 days</b>	<b>01/05/17</b>	<b>31/08/18</b>				
281	BA 10 Application	10 days	01/05/17	10/05/17				
282	Excavation to Formation Level	14 days	11/05/17	24/05/17				
283	Plate Load Test	14 days	25/05/17	07/06/17				
284	Raft Foundation (Urea Handling Rm)	21 days	08/06/17	28/06/17				
285	Raft Foundation (Electrical Rm)	30 days	29/06/17	28/07/17				
286	Backfill	21 days	29/07/17	18/08/17				
287	Construct G/F	45 days	19/08/17	02/10/17				
288	Roof Construction	75 days	03/10/17	16/12/17				
289	Parapet Wall	21 days	17/12/17	06/01/18				
290	ABWF Works	120 days	07/01/18	06/05/18				
291	Building Service Installations	120 days	04/05/18	31/08/18				
292	Ready for BA 13 Application	0 days	31/08/18	31/08/18				
293	Plate Load Test	14 days	25/05/17	07/06/17				
294	Pipe Rack Foundation	28 days	08/06/17	05/07/17				
295	Supporting Tower (4 no.) (9.55m in Height)	60 days	06/07/17	03/09/17				
296	Pipe Rack Truss (3 no.)17.3m Span	60 days	04/09/17	02/11/17				
297	<b>Section G - Demin. Plant Road &amp; Modification at No. 4 CW Intake</b>	<b>273 days</b>	<b>01/01/18</b>	<b>30/09/18</b>				
298	<b>C.W Culvert System (Area C9b)</b>	<b>272 days</b>	<b>01/01/18</b>	<b>30/09/18</b>				
299	Design, Approval & Consent	0 days	01/01/18	01/01/18				
300	Removal of paving block & ELS Installation	30 days	02/01/18	31/01/18				
301	Excavation to Formation Level with ELS Installation	45 days	01/02/18	17/03/18				
302	Construction of Blinding & Plinth	14 days	18/03/18	31/03/18				
303	Pipe Laying (2 pipes x ~45m)	30 days	01/04/18	30/04/18				
304	Construction of Thrust Box	14 days	01/05/18	14/05/18				
305	Water Test	8 days	15/05/18	22/05/18				
306	Backfill	21 days	23/05/18	12/06/18				
307	All underground Utilities	50 days	13/06/18	01/08/18				
308	Backfill & Reinstatement & Formation of Access	60 days	02/08/18	30/09/18				
309	<b>Modification Works - No. 4 C.W. Intake &amp; No.3 C.W. Outfall</b>	<b>181 days</b>	<b>01/01/18</b>	<b>30/06/18</b>				
310	No. 3 C.W. Outfall Modification	90 days	01/01/18	01/04/18				
311	No. 4 C.W. Intake Modification	122 days	01/03/18	30/06/18				
312	<b>Section H1 - Gas Support foundation &amp; trench at Area C11</b>	<b>405 days</b>	<b>01/11/16</b>	<b>10/12/17</b>				
313	<b>GRS Support Foundation</b>	<b>405 days</b>	<b>01/11/16</b>	<b>10/12/17</b>				
314	Temporary Protection, advance work etc	45 days	01/11/16	15/12/16				
315	Gas Pipe Footing	180 days	16/12/16	13/06/17				
316	Gas Pipe Trench	180 days	14/06/17	10/12/17				
317	<b>Section H2 - GRS Improvement work at Area C10</b>	<b>441 days</b>	<b>01/09/17</b>	<b>15/11/18</b>				
318	<b>GRS Area Improvement Works</b>	<b>441 days</b>	<b>01/09/17</b>	<b>15/11/18</b>				
319	Retaining Wall Construction	90 days	01/09/17	29/11/17				
320	Removal of Surcharge and Backfill	45 days	30/11/17	13/01/18				
321	Footing Construction	240 days	14/01/18	10/09/18				
322	Topping up, finish and Misc. Works	66 days	11/09/18	15/11/18				
323	<b>Section H3 - L10 Chimney Flue and A&amp;A L9 &amp; pipe rack formation</b>	<b>388 days</b>	<b>24/10/17</b>	<b>15/11/18</b>				
324	<b>No.4 Chimney Steel Flue</b>	<b>318 days</b>	<b>01/01/18</b>	<b>15/11/18</b>				
325	Consent, documentation and site preparation	0 days	01/01/18	01/01/18				
326	Steel Flue Preparation & Installation	150 days	02/01/18	31/05/18				
327	Install Steel Cover at Windshield	45 days	01/06/18	15/07/18				
328	Install Steel Cover at Roof	30 days	16/07/18	14/08/18				
329	Modification & Reinstatement Works	55 days	15/08/18	08/10/18				
330	E & M Installation	38 days	09/10/18	15/11/18				
331	MSB Unit 9 Pipe Rack Construction	90 days	24/10/17	21/01/18				
332	<b>Section I1 - Link Bridge &amp; associated A&amp;A</b>	<b>455 days</b>	<b>01/01/18</b>	<b>31/03/19</b>				

ID	Task Name	Duration	Start	Finish	3rd Quarter			
					Jun	Jul	Aug	Sep
333	<b>Link Bridge</b>	<b>455 days</b>	<b>01/01/18</b>	<b>31/03/19</b>				
334	Design & Shop Drawings	90 days	01/01/18	31/03/18				
335	Access	0 days	17/11/18	17/11/18				
336	Site preparation	14 days	18/11/18	01/12/18				
337	Link Bridge between Unit L9 & L10	120 days	02/12/18	31/03/19				
338	<b>Section I2 - Shunt Reactor SR4 Foundation</b>	<b>90 days</b>	<b>01/01/19</b>	<b>31/03/19</b>				
339	<b>Shunt Reactor Compound SR4</b>	<b>90 days</b>	<b>01/01/19</b>	<b>31/03/19</b>				
340	Modification Work at Shunt Reactor SR4	90 days	01/01/19	31/03/19				
341	<b>Section I3 - All remaining work except deferred works</b>	<b>417 days</b>	<b>08/02/18</b>	<b>31/03/19</b>				
342	<b>Remaining Works</b>	<b>417 days</b>	<b>08/02/18</b>	<b>31/03/19</b>				
343	Demolition of Canopy @ Jetty Guard Hose & Toilet)	30 days	02/08/18	31/08/18				
344	Demolition of Existing Contractor Shed	60 days	01/09/18	30/10/18				
345	Security Fence Erection	20 days	31/10/18	19/11/18				
346	All External Works & Road Works	417 days	08/02/18	31/03/19				
347	<b>Deferred Works - L10 MSB and HRSG</b>	<b>417 days</b>	<b>08/02/18</b>	<b>31/03/19</b>				
348	Construction of L10 MSB Roof Between GL 10-G to 10-H and 10-2 to 10-6 After the Overhead Crane Installation	52 days	08/02/18	31/03/18				
349	Construction of Walls and Ceilings of Lube Oil Tank Room at L10 MSB	92 days	01/05/18	31/07/18				
350	Construction of Walls of L10 MSB Below Level +18mPD along GL10-6 form GL10-F to 10-H and Walls of L10 MSB along GL10-H from GL10-5 to 10-6 including the associated Building Elements	92 days	01/05/18	31/07/18				
351	Construction of Walls of L10 MSB Below 1/F along GL10-6 from GL10-B to 10-C and the associated Staircases including the Enclosure Walls between G/F and 1/F.	184 days	01/05/18	31/10/18				
352	Construction of Internal Partition Wall at 1/F of L10 MSB along GL10-C from GL10-2 to 10-3	32 days	15/05/18	15/06/18				
353	Removal of Temporary Paving Within L10 HRSG Area to Expose all respective Equipment Foundations	14 days	01/08/18	14/08/18				
354	Construction of Foundation Plinths and Walls of Lube Oil Storage Tank	93 days	15/08/18	15/11/18				
355	Construction of Metal Fence and the associated Fire Services Installations and Installation of Removable Shelter Transformer Area	121 days	01/12/18	31/03/19				
356	<b>Deferred Works - External Works</b>	<b>182 days</b>	<b>01/10/18</b>	<b>31/03/19</b>				
357	Final Reinstatement of Access Roads and Pavement Surrounding and within L10 MSB and L10 HRSG Area	151 days	01/10/18	28/02/19				
358	FSD Inspection	14 days	02/03/19	15/03/19				
359	BD OP Inspection	14 days	18/03/19	31/03/19				
360	<b>Section J - Cable Route CPX1&amp;2 cable diversion &amp; whole of work except deferred works to be carried out in DLP</b>	<b>1127 days</b>	<b>01/05/17</b>	<b>31/05/20</b>				
361	<b>275kV Cable Diversion</b>	<b>1127 days</b>	<b>01/05/17</b>	<b>31/05/20</b>				
362	<b>Part I (1km in Length, 1.1m to 1.5m Deep) (Works in existing Trench)</b>	<b>426 days</b>	<b>01/05/17</b>	<b>30/06/18</b>				
363	Tentative Commencement Date Of Civil Works	0 days	01/05/17	01/05/17				
364	Implementation of TTA	7 days	01/05/17	07/05/17				
365	Remove the Concrete Road Cover	60 days	08/05/17	06/07/17				
366	Cable Trench Re-excavation	208 days	07/06/17	31/12/17				
367	Completion Date of Trench Excavation for Site Handover	0 days	31/12/17	31/12/17				
368	Tentative Period for Backfilling and Road Reinstatement (Excluding Joint Bay and Trench at Station Road)	91 days	01/04/18	30/06/18				
369	<b>Part II (630m in Length, 1.1m to 1.5m Deep) (Works in existing Trench)</b>	<b>485 days</b>	<b>01/11/17</b>	<b>28/02/19</b>				
370	Tentative Commencement Date Of Civil Works	0 days	01/11/17	01/11/17				
371	Implementation of TTA	7 days	01/11/17	07/11/17				
372	Remove the Concrete Road Cover	32 days	08/11/17	09/12/17				
373	Trench Excavation and Installation of Road Decking at Joint Bay (Including Part I & II)	90 days	25/11/17	22/02/18				
374	Cable Trench Re-excavation	190 days	23/02/18	31/08/18				
375	Completion Date of Trench Excavation for Site Handover	0 days	31/08/18	31/08/18				
376	Tentative Period for Backfilling and Road Reinstatement (Including Joint Bay at Part I, but excluding Joint Bay SJ3)	90 days	01/12/18	28/02/19				
377	<b>Part III (400m in Length, 1.3m to 1.5m Deep) (Works in New Trench)</b>	<b>518 days</b>	<b>01/07/18</b>	<b>30/11/19</b>				

ID	Task Name	Duration	Start	Finish	3rd Quarter			
					Jun	Jul	Aug	Sep
378	Tentative Commencement Date Of Civil Works	0 days	01/07/18	01/07/18				
379	Implementation of TTA	7 days	01/07/18	07/07/18				
380	Remove the Concrete Road Cover	30 days	08/07/18	06/08/18				
381	Cable Trench Excavation with shoring	270 days	07/08/18	03/05/19				
382	Construction of New Joint Bay	28 days	04/05/19	31/05/19				
383	Completion Date of Trench Excavation for Site Handover	0 days	31/05/19	31/05/19				
384	Tentative Period for Backfilling and Road Reinstatement (excluding new slab but including SJ3)	91 days	01/09/19	30/11/19				
385	<b>Part IV (Hand Dig Tunnel) + Defer portion</b>	<b>701 days</b>	<b>01/07/18</b>	<b>31/05/20</b>				
386	Tentative Commencement Date Of Civil Works	0 days	01/07/18	01/07/18				
387	Excavation to Approx. +5mPD	30 days	01/07/18	30/07/18				
388	Existing Drainage Diversion	50 days	31/07/18	18/09/18				
389	Construction of New Cable Joint Bay	30 days	19/09/18	18/10/18				
390	Ramp Trench	75 days	19/10/18	01/01/19				
391	Formation of Temp. Cable Pit	45 days	02/01/19	15/02/19				
392	Hand Dig Tunnel (17.6m) (0.2-0.3m/day)	75 days	16/02/19	01/05/19				
393	Excavation for Duct Bank Construction	60 days	02/05/19	30/06/19				
394	Completion Date of Trench Excavation for Site Handover	0 days	30/06/19	30/06/19				
395	<b>Deferred Works - Cable Diversion CPX1 and CPX2 (during DLP)</b>	<b>274 days</b>	<b>01/09/19</b>	<b>31/05/20</b>				
396	Formation of Wall Opening between existing trench CPX1 and new Joint Bay	7 days	01/09/19	07/09/19				
397	Breaking up for Road Paving and Excavation down to Cable Tiles of Existing Trench CPX2	31 days	01/12/19	31/12/19				
398	Demolition of Existing Trench CPX1 and CPX2	30 days	01/04/20	30/04/20				
399	Final Reinstatement of the CPX1 and CPX2 Areas	31 days	01/05/20	31/05/20				
400	<b>Deferred Works - Shunt Reactor Compound SR4 (during DLP)</b>	<b>153 days</b>	<b>01/07/19</b>	<b>30/11/19</b>				
401	Trench Re-excavation and Cable Supports Installation for Shunt Reactor Compound SR4	62 days	01/07/19	31/08/19				
402	Backfilling and Road Re-instatement of Shunt Reactor SR4 and Associated Trench	30 days	01/11/19	30/11/19				



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					M8 七月	M9 八月	M10 九月			
1	<b>Key Date</b>	<b>455 days</b>	<b>2016/12/21</b>	<b>2018/3/20</b>						
2	Commencement date	0 days	2016/12/21	2016/12/21						
3	Duration of works	455 days	2016/12/21	2018/3/20						
4	Site possession date	0 days	2016/12/21	2016/12/21						
5	Completion of the Contract	0 days	2018/3/20	2018/3/20						
6										
7	<b>Submission &amp; Works Commenced Before the Contract</b>	<b>229 days</b>	<b>2016/11/14</b>	<b>2017/6/30</b>						
8	<b>Preliminaries</b>	<b>75 days</b>	<b>2016/11/14</b>	<b>2017/1/27</b>						
9	Coordination with utility companies	14 days	2016/12/14	2016/12/27						
10	Condition survey	1 day	2016/12/14	2016/12/14						
11	Notification of commencement of works to Labour Department	1 day	2016/12/19	2016/12/19						
12	Notification of air pollution control for commencement of works to EPD	1 day	2016/12/19	2016/12/19						
13	Application of water discharge licence from EPD	14 days	2016/12/12	2016/12/25						
14	Application for billing account for disposal of construction waste from EPD	7 days	2016/12/12	2016/12/18						
15	CCTV for existing underground drainage pipe around site boundary	12 days	2017/1/16	2017/1/27						
16	Erection of contractor's site office	21 days	2016/12/14	2017/1/3						
17	Installation of monitoring checkpoints	2 days	2016/12/13	2016/12/14						
18	Submission of BA10 for foundation works	0 days	2016/11/14	2016/11/14						
19										
20	<b>Predrilling Works</b>	<b>51 days</b>	<b>2016/11/23</b>	<b>2017/1/12</b>						
21	Drilling rigs mobilization (6 rigs)	1 day	2016/12/22	2016/12/22						
22	Predrilling works	31 days	2016/11/23	2016/12/23						
23	Submission of predrill logs	16 days	2016/12/28	2017/1/12						
24	Completion of predrilling works	0 days	2017/1/12	2017/1/12						
25										
26	<b>Plant Mobilization for Bored Pile Construction</b>	<b>197 days</b>	<b>2016/12/8</b>	<b>2017/6/22</b>						
27	<b>Crawler Crane</b>	<b>68 days</b>	<b>2016/12/8</b>	<b>2017/2/13</b>						
28	1st & 2nd set	1 day	2016/12/8	2016/12/8						
29	3rd & 4th set	1 day	2017/1/3	2017/1/3						
30	5th & 6th set	1 day	2017/2/13	2017/2/13						
31	<b>Oscillator</b>	<b>196 days</b>	<b>2016/12/9</b>	<b>2017/6/22</b>						
32	1st & 2nd set	4 days	2016/12/9	2016/12/12						
33	3rd & 4th set	1 day	2017/1/4	2017/1/4						
34	5th set	1 day	2017/2/14	2017/2/14						
35	6th set	2 days	2017/6/21	2017/6/22						
36	<b>RCD</b>	<b>84 days</b>	<b>2017/1/7</b>	<b>2017/3/31</b>						
37	1st & 2nd set	7 days	2017/1/7	2017/1/13						
38	3rd & 4th set	7 days	2017/1/21	2017/1/27						
39	5th & 6th set ( Optional if necessary)	7 days	2017/3/25	2017/3/31						
40	Completion of plant mobilization for bored pile construction	0 days	2017/3/31	2017/3/31						
41										
42	<b>Delivery of Temporary Steel Casing for Bored Pile Construction</b>	<b>192 days</b>	<b>2016/12/21</b>	<b>2017/6/30</b>						
43	Duration for delivery of temporary steel casing	192 days	2016/12/21	2017/6/30						
44	Completion of delivery of temporary steel casing for bored pile construction	0 days	2017/6/30	2017/6/30						
45										
46	<b>Total Contract Period</b>	<b>455 days</b>	<b>2016/12/21</b>	<b>2018/3/20</b>						
47										
48	<b>Section A</b>	<b>304 days</b>	<b>2016/12/21</b>	<b>2017/10/20</b>						
49	<b>Bored Pile Construction (22 piles)</b>	<b>304 days</b>	<b>2016/12/21</b>	<b>2017/10/20</b>						
50	<b>1st set - G2 &gt; G1 &gt; G3 &gt; G4 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers &amp; 2 welders)</b>	<b>136 days</b>	<b>2016/12/21</b>	<b>2017/5/5</b>						
51	G2	35 days	2016/12/21	2017/1/24						
52	Delivery of liner for G1	2 days	2017/3/3	2017/3/4						
53	G1	58 days	2017/1/25	2017/3/23						
54	Delivery of liner for G3	2 days	2017/3/10	2017/3/11						
55	G3	49 days	2017/2/1	2017/3/21						
56	Delivery of liner for G4	2 days	2017/4/21	2017/4/22						
57	G4	45 days	2017/3/22	2017/5/5						
58	<b>2nd set - G7 &gt; G5 &gt; G6 &gt; BP26 &gt; BP20 &gt; BP23 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers &amp; 2 welders)</b>	<b>273 days</b>	<b>2016/12/21</b>	<b>2017/9/19</b>						

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ID	Task Name	Duration	Start	Finish	2017年			2018年		
					M8 七月	M9 八月	M10 九月			
59	G7	45 days	2016/12/21	2017/2/3						
60	Delivery of liner for G6	2 days	2017/3/3	2017/3/4						
61	G6	39 days	2017/2/4	2017/3/14						
62	Delivery of liner for G5	2 days	2017/4/21	2017/4/22						
63	G5	48 days	2017/3/15	2017/5/1						
64	Delivery of liner for BP26	2 days	2017/6/9	2017/6/10						
65	BP26	46 days	2017/5/2	2017/6/16						
66	Delivery of liner for BP20	2 days	2017/7/7	2017/7/8						
67	BP20 (requested the latest day for construction of this pile on 23 Jun 17)	44 days	2017/6/23	2017/8/5						
68	Delivery of liner for BP23	2 days	2017/9/1	2017/9/2						
69	BP23	45 days	2017/8/6	2017/9/19						
70	<b>3rd set - BP5 &gt; BP1 &gt; BP13 &gt; BP9 &gt; BP17 (1 crane operator, 1 oscillator operator, 2 RCD operators, 4 riggers &amp; 2 welders)</b>	<b>155 days</b>	<b>2017/1/5</b>	<b>2017/6/8</b>						
71	Delivery of liner for BP5	2 days	2017/3/1	2017/3/2						
72	BP5	65 days	2017/1/5	2017/3/10						
73	Delivery of liner for BP1	2 days	2017/3/10	2017/3/11						
74	BP1	48 days	2017/2/12	2017/3/31						
75	Delivery of liner for BP13	2 days	2017/4/7	2017/4/8						
76	BP13	45 days	2017/3/11	2017/4/24						
77	Delivery of liner for BP9	2 days	2017/4/28	2017/4/29						
78	BP9	50 days	2017/4/3	2017/5/22						
79	Delivery of liner for BP17	2 days	2017/5/19	2017/5/20						
80	BP17	45 days	2017/4/25	2017/6/8						
81	<b>4th set - G10 &gt; G8 &gt; G9 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers &amp; 2 welders)</b>	<b>122 days</b>	<b>2017/1/12</b>	<b>2017/5/13</b>						
82	G10	45 days	2017/1/12	2017/2/25						
83	Delivery of liner for G9	2 days	2017/3/17	2017/3/18						
84	G9	31 days	2017/2/26	2017/3/28						
85	Delivery of liner for G8	2 days	2017/4/28	2017/4/29						
86	G8	46 days	2017/3/29	2017/5/13						
87	<b>5th set - BP8 &gt; BP4 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers &amp; 2 welders)</b>	<b>89 days</b>	<b>2017/6/23</b>	<b>2017/9/19</b>						
88	Delivery of liner for BP8	2 days	2017/7/21	2017/7/22						
89	BP8 (requested the latest day for construction of this pile on 23 Jun 17)	44 days	2017/6/23	2017/8/5						
90	Delivery of liner for BP4	2 days	2017/9/8	2017/9/9						
91	BP4	45 days	2017/8/6	2017/9/19						
92	<b>6th set - BP12 &gt; BP16 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers &amp; 2 welders)</b>	<b>89 days</b>	<b>2017/6/23</b>	<b>2017/9/19</b>						
93	Delivery of liner for BP12	2 days	2017/7/21	2017/7/22						
94	BP12 (requested the latest day for construction of this pile on 23 Jun 17)	44 days	2017/6/23	2017/8/5						
95	Delivery of liner for BP16	2 days	2017/9/8	2017/9/9						
96	BP16	45 days	2017/8/6	2017/9/19						
97	Interface & sonic test	30 days	2017/8/28	2017/9/26						
98	Prepare & submit as-built record plan	7 days	2017/9/19	2017/9/25						
99	Submission of BA14	1 day	2017/9/26	2017/9/26						
100	Allow 14 days for selection of pile for concrete full core test	14 days	2017/9/27	2017/10/10						
101	Concrete full core test	10 days	2017/10/11	2017/10/20						
102	Completion of bored pile construction	0 days	2017/10/20	2017/10/20						
103	<b>Sheet Pile</b>	<b>162 days</b>	<b>2017/5/12</b>	<b>2017/10/20</b>						
104	Plant mobilization (1 rig) (1 operator, 4 riggers & 4 welders)	7 days	2017/8/3	2017/8/9						
105	Delivery of sheet pile material	90 days	2017/5/12	2017/8/9						
106	Installation of sheet pile - Type B (approx. 80 piles)	65 days	2017/8/10	2017/10/13						
107	Prepare & submit as-built record plan	6 days	2017/10/14	2017/10/19						
108	Submission of BA14	1 day	2017/10/20	2017/10/20						
109	Completion of sheet pile	0 days	2017/10/20	2017/10/20						
110	Completion of section A	0 days	2017/10/20	2017/10/20						
111										
112	<b>Section B</b>	<b>455 days</b>	<b>2016/12/21</b>	<b>2018/3/20</b>						
113	<b>Delivery of Permanent Casing &amp; Double Wall Liner</b>	<b>390 days</b>	<b>2016/12/21</b>	<b>2018/1/14</b>						
114	Testing for double wall liner (subject to HEC's request)	45 days	2016/12/21	2017/2/3						
115	Duration for delivery of permanent casing & double wall liner	305 days	2017/3/16	2018/1/14						

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ID	Task Name	Duration	Start	Finish	2017年	2018年
116	<b>Bored Pile Construction (16 piles)</b>	<b>399 days</b>	<b>2017/2/15</b>	<b>2018/3/20</b>		
117	<b>1st set - BP21 &gt; BP22 &gt; BP18 &gt; BP19 &gt; BP15 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers &amp; 2 welders)</b>	<b>227 days</b>	<b>2017/6/25</b>	<b>2018/2/6</b>		
118	Delivery of liner for BP21	2 days	2017/7/28	2017/7/29		
119	BP21	46 days	2017/6/25	2017/8/9		
120	Delivery of liner for BP22	2 days	2017/8/25	2017/8/26		
121	BP22	45 days	2017/8/10	2017/9/23		
122	Delivery of liner for BP18	2 days	2017/10/27	2017/10/28		
123	BP18	45 days	2017/9/25	2017/11/8		
124	Delivery of liner for BP19	2 days	2017/12/8	2017/12/9		
125	BP19	45 days	2017/11/9	2017/12/23		
126	Delivery of liner for BP15	2 days	2017/12/8	2017/12/9		
127	BP15	45 days	2017/12/24	2018/2/6		
128	<b>3rd set - BP14 &gt; BP11 &gt; BP29 &gt; BP6 &gt; BP7 (1 crane operator, 1 oscillator operator, 2 RCD operators, 4 riggers &amp; 2 welders)</b>	<b>137 days</b>	<b>2017/5/23</b>	<b>2017/10/6</b>		
129	Delivery of liner for BP14	2 days	2017/6/23	2017/6/24		
130	BP14	46 days	2017/5/23	2017/7/7		
131	Delivery of liner for BP11	2 days	2017/7/7	2017/7/8		
132	BP11	45 days	2017/6/9	2017/7/23		
133	Delivery of liner for BP29	2 days	2017/8/4	2017/8/5		
134	BP29	45 days	2017/7/8	2017/8/21		
135	Delivery of liner for BP6	2 days	2017/8/25	2017/8/26		
136	BP6	45 days	2017/7/24	2017/9/6		
137	Delivery of liner for BP7	2 days	2017/9/15	2017/9/16		
138	BP7	46 days	2017/8/22	2017/10/6		
139	<b>4th set - BP27 &gt; BP28 &gt; BP25 &gt; BP24 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers &amp; 2 welders)</b>	<b>181 days</b>	<b>2017/5/14</b>	<b>2017/11/10</b>		
140	Delivery of liner for BP27	2 days	2017/6/9	2017/6/10		
141	BP27	45 days	2017/5/14	2017/6/27		
142	Delivery of liner for BP28	2 days	2017/7/7	2017/7/8		
143	BP28	46 days	2017/6/27	2017/8/11		
144	Delivery of liner for BP25	2 days	2017/8/25	2017/8/26		
145	BP25	45 days	2017/8/12	2017/9/25		
146	Delivery of liner for BP24	2 days	2017/10/27	2017/10/28		
147	BP24	46 days	2017/9/26	2017/11/10		
148	<b>5th set - BP3 &gt; BP10 (1 crane operator, 1 oscillator operator, 1 RCD operator, 4 riggers &amp; 2 welders)</b>	<b>94 days</b>	<b>2017/2/15</b>	<b>2017/5/19</b>		
149	Delivery of liner for BP3	2 days	2017/3/17	2017/3/18		
150	BP3	45 days	2017/2/15	2017/3/31		
151	Delivery of liner for BP10	2 days	2017/5/5	2017/5/6		
152	BP10	44 days	2017/4/6	2017/5/19		
153	Interface & sonic test	30 days	2018/1/18	2018/2/16		
154	Prepare & submit as-built record plan	7 days	2018/2/17	2018/2/23		
155	Submission of BA14	1 day	2018/2/24	2018/2/24		
156	Allow 14 days for selection of pile for concrete full core test	14 days	2018/2/25	2018/3/10		
157	Concrete full core test	10 days	2018/3/11	2018/3/20		
158	Completion of bored pile construction	0 days	2018/3/20	2018/3/20		
159	<b>Sheet Pile</b>	<b>225 days</b>	<b>2017/7/10</b>	<b>2018/2/19</b>		
160	Delivery of sheet pile material	90 days	2017/7/10	2017/10/7		
161	Installation of sheet pile - Type A (approx. 192 piles) (1 rig mobilized after completion of sheet pile of Type B) (1 operator, 4 riggers & 4 welders)	45 days	2017/10/14	2017/11/27		
162	Installation of sheet pile - Type C (approx. 325 piles) (1 rig mobilized after completion of sheet pile of Type A) (1 operator, 4 riggers & 4 welders)	76 days	2017/11/28	2018/2/11		
163	Prepare & submit as-built record plan	7 days	2018/2/12	2018/2/18		
164	Submission of BA14	1 day	2018/2/19	2018/2/19		
165	Completion of sheet pile	0 days	2018/2/19	2018/2/19		
166	Completion of section B	0 days	2018/3/20	2018/3/20		
167						
168	Contract completion	0 days	2018/3/20	2018/3/20		

