Annex C

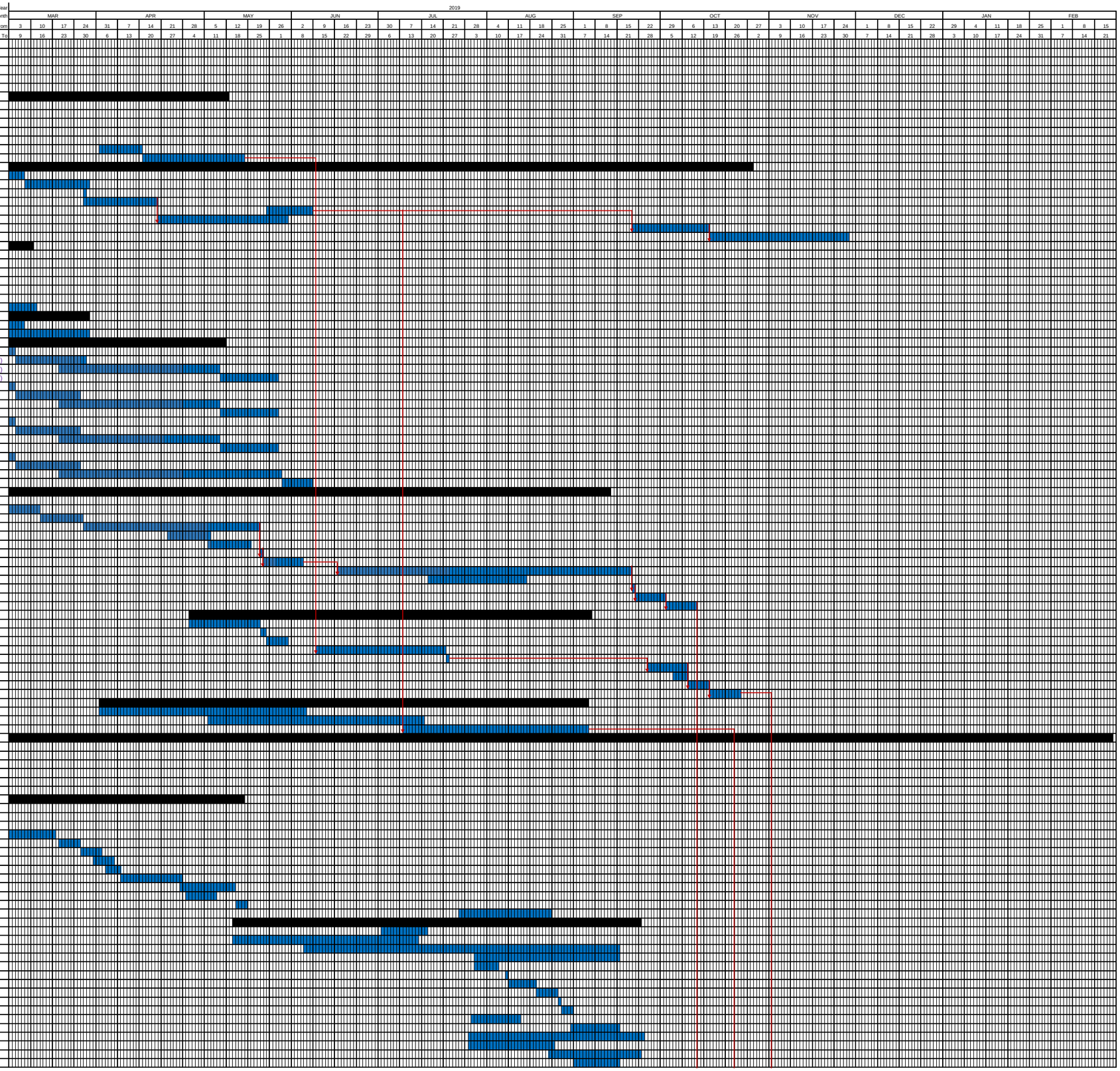
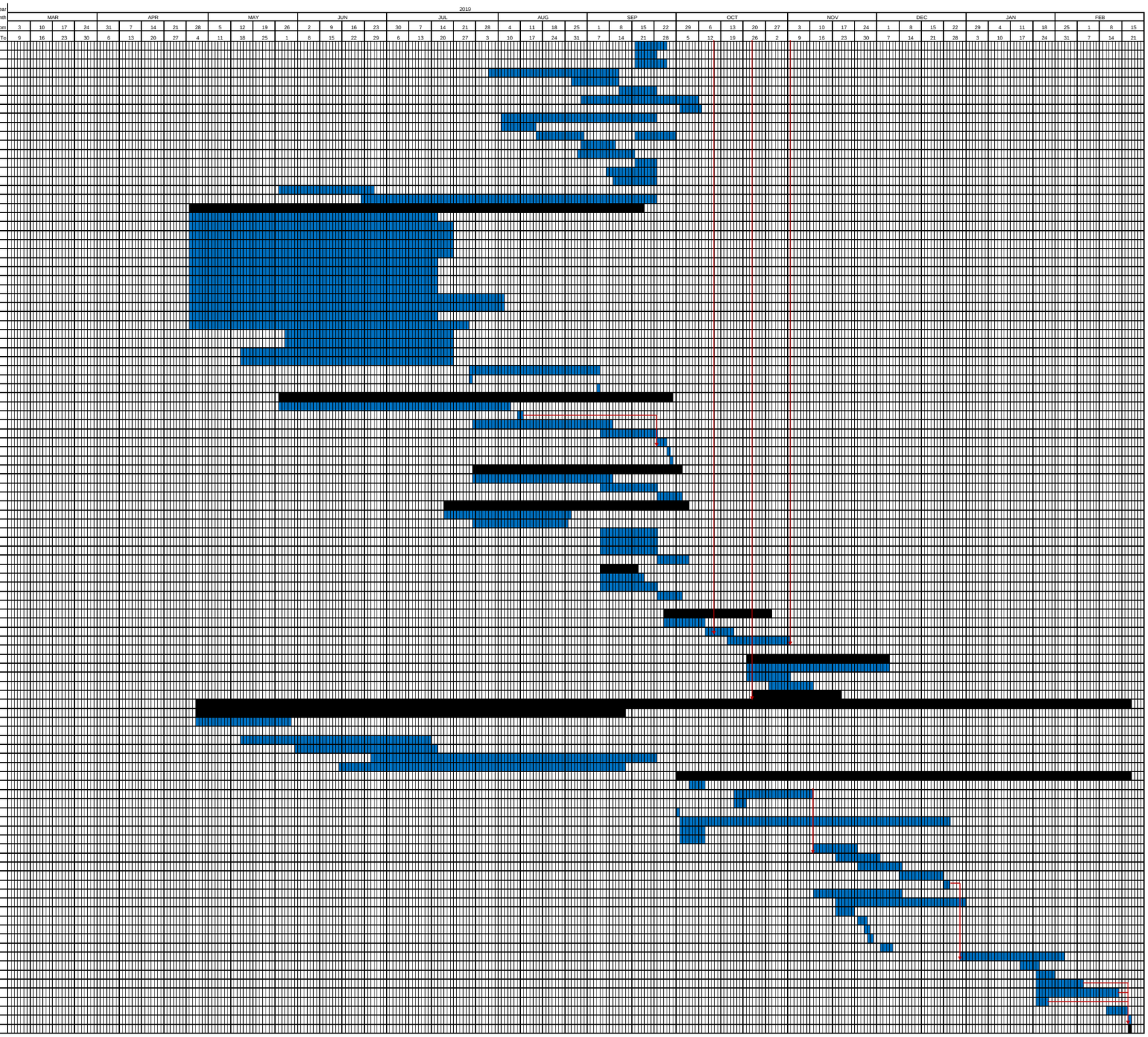
Construction Programme of the Project

Organic Resources Recovery Centre Phase 1

Work Programme for Visitor Centre

Updated: 12/9/2019

ID	Task Name	Contractor's Programme Duration (D)	Start	Finish
1	**Organic Resources Recovery Centre (Phase 1), Visitor Centre**	**636**	**23/5/2018**	**17/2/2020**
2				
3	Employer Change No. 20 - Design & Construction of Visitor Centre	1	23/5/2018	23/5/2018
4	Design Feasibility Study of adding separate access for visiotrs to VC	67	12/6/2018	17/8/2018
5				
6	**DESIGN & SUBMISSION**			
7	**GBP Submission**	**273**	**18/8/2018**	**17/5/2019**
8	Preparation of GBP submission	67	18/8/2018	23/10/2018
9	Vetting by OSCAR / ER	7	24/10/2018	30/10/2018
10	Final revision and preparation of offical submission to FSD	3	31/10/2018	2/11/2018
11	Offical GBP submission to FSD	1	2/11/2018	2/11/2018
12	FSD approval period	45	3/11/2018	17/12/2018
13	GBP Amendment submission to FSD	14	1/4/2019	14/4/2019
14	FSD approval period	33	15/4/2019	17/5/2019
15	**Architectural Design Submission**	**400**	**25/10/2018**	**28/11/2019**
16	Detailed architectural design preparation and submission	134	25/10/2018	7/3/2019
17	Vetting by OSCAR/IC/ER	21	8/3/2019	28/3/2019
18	Submission of façade design	1	27/3/2019	27/3/2019
19	EPD confirmation of façade design (internal layer)	24	27/3/2019	19/4/2019
20	EPD confirmation of façade design (external layer) & G/F outer skin	14	25/6/2019	8/7/2019
21	Detailed design of facade cladding (internal layer)	42	20/4/2019	31/5/2019
22	Preparation of offical submission to ArchSD	25	20/9/2019	14/10/2019
23	ArchSD's approval period	45	15/10/2019	28/11/2019
24	**Structural - Superstructure Design Submission**	**155**	**8/10/2018**	**11/3/2019**
25	Site Survey	7	8/10/2018	14/10/2018
26	Detail foundation design preparation and submission	61	15/10/2018	14/12/2018
27	IC vetting and comment	7	15/12/2018	21/12/2018
28	OSCAR revision and re-submission	10	22/12/2018	31/12/2018
29	IC vetting and further comment	18	1/1/2019	18/1/2019
30	OSCAR revision and re-submission	12	19/1/2019	30/1/2019
31	Vetting and approval by OSCAR/IC/ER	40	31/1/2019	11/3/2019
32	**Structural - Superstructure Design Submission**	**155**	**25/10/2018**	**28/3/2019**
33	Detail superstructure design preparation and submission	134	25/10/2018	7/3/2019
34	Vetting by OSCAR/IC/ER	21	8/3/2019	28/3/2019
35	**Building Services Design Submission**	**205**	**5/11/2018**	**28/5/2019**
36	Electrical installation design preparation and submission	120	5/11/2018	4/3/2019
37	Electrical installation design - IC/ ER vetting and comment	23	5/3/2019	27/3/2019 (A)
38	Electrical installation design - OSCAR reivse & re-submit	52	19/3/2019	9/5/2019 (A)
39	Electrical installation design IC/ER vetting and approval	19	10/5/2019	28/5/2019 (A)
40	Fire services installation design preparation and submission	120	5/11/2018	4/3/2019
41	Fire services installation design - IC/ ER vetting and comment	25	5/3/2019	29/3/2019
42	Fire services installation design - OSCAR reivse & re-submit	52	19/3/2019	9/5/2019
43	Fire services installation design - IC/ER vetting and approval	19	10/5/2019	28/5/2019
44	MVAC installation design preparation and submission	120	5/11/2018	4/3/2019
45	MVAC installation design - IC/ ER vetting and comment	25	5/3/2019	29/3/2019
46	MVAC installation design - OSCAR reivse & re-submit	52	19/3/2019	9/5/2019
47	MVAC installation design - IC/ER vetting and approval	21	10/5/2019	30/5/2019
48	Drainage installation design - preparation and submission	120	5/11/2018	4/3/2019
49	Drainage installation design - IC/ ER vetting and comment	25	5/3/2019	29/3/2019
50	Drainage installation design - OSCAR reivse & re-submit	72	19/3/2019	29/5/2019
51	Drainage installation design - IC/ER vetting and approval	10	30/5/2019	8/6/2019
52	**WSD Statutory Submission**	**282**	**2/1/2019**	**10/10/2019**
53	WWO542 (FS Water) preparation and submission	30	2/1/2019	31/1/2019
54	WSD comment on WWO542 submission	40	1/2/2019	12/3/2019
55	WWO542 (FS Water) revision and re-submission	14	13/3/2019	26/3/2019
56	WSD approval on WWO542	57	27/3/2019	22/5/2019
57	Prepare WW046 Part I & II	14	23/4/2019	6/5/2019
58	OSCAR/ ER review WW046 Part I & II document	14	6/5/2019	19/5/2019
59	Submission of WW046 Part I & II	1	23/5/2019	23/5/2019
60	Issurance of WW046 Part III by WSD	13	24/5/2019	5/6/2019
61	FS Installation work (Water Side)	96	17/6/2019	20/9/2019
62	Liaison with WSD for minor amendment	32	16/7/2019	16/8/2019
63	Submit WW046 Part IV	1	20/9/2019	20/9/2019
64	WSD inspection on FS water	10	21/9/2019	30/9/2019
65	Issurance of Part V (Water Certificate) & Completion Advice	10	1/10/2019	10/10/2019
66	**FSD VAC Submission**	**181**	**29/4/2019**	**26/10/2019**
67	FS VAC preparation	24	29/4/2019	22/5/2019
68	OSCAR/ER review and comment	2	23/5/2019	24/5/2019
69	FS VAC revision	7	25/5/2019	31/5/2019
70	FS VAC formal submission to FSD	49	10/6/2019	21/7/2019
71	Issurance of acceptance letter (VAC)	1	22/7/2019	22/7/2019
72	Submission of FS 314 and FS 501 for VAC system to FSD	13	25/9/2019	7/10/2019
73	FSI Rehersal	5	3/10/2019	7/10/2019
74	FS inspection for VAC	7	8/10/2019	14/10/2019
75	FSD Issurance of acceptance letter (VAC)	10	17/10/2019	26/10/2019
76	**Off-site Fabrication and Delivery to Site**	**158**	**1/4/2019**	**5/9/2019**
77	Strutural steel frame	67	1/4/2019	6/6/2019
78	Roof and façade cladding (internal layer)	70	6/5/2019	14/7/2019
79	Façade cladding (external layer) & G/F outer skin	60	8/7/2019	5/9/2019
80	**ON-SITE CONSTRUCTION**	**442**	**3/12/2018**	**17/2/2020**
81	**Site Preparation and U/G Servoces Diversion**	**19**	**3/12/2018**	**21/12/2018**
82	Site Take Over	1	3/12/2018	3/12/2018
83	Set up temporary office & electricity	10	3/12/2018	12/12/2018
84	Hoarding erection	10	3/12/2018	12/12/2018
85	Surveying and Setting Out	10	3/12/2018	12/12/2018
86	U/G utilities detection / site vertification	14	8/12/2018	21/12/2018
87	**Foundation Works (Piling ELS and Pile Caps)**	**254**	**14/12/2018**	**24/8/2019**
88	Pre-drilling boreholes	13	14/12/2018	26/12/2018
89	Material procurement and delivery of Pile material	30	22/12/2018	20/1/2019
90	Mobilization of piling plant and set up on site	7	10/1/2019	16/1/2019
91	Installation of working pile	56	21/1/2019	17/3/2019
92	Proof-drilling boreholes	7	19/3/2019	25/3/2019
93	Moblization & set-up for loading test	7	26/3/2019	1/4/2019
94	Temporary covered walkway to B1	7	30/3/2019	5/4/2019
95	Loading test, demoblization and submit preliminary report	5	3/4/2019	7/4/2019
96	ELS works for pile cap	20	8/4/2019	27/4/2019
97	Construct pile cap, tie beam & pier wall	18	27/4/2019	14/5/2019
98	Submission of Pile Record	10	29/4/2019	8/5/2019
99	Back filling to formation level & contruct on-grade slab	4	15/5/2019	18/5/2019
100	Diversion of U/G Portable Water Pipe	30	26/7/2019	24/8/2019
101	**Superstructure Works**	**145**	**14/5/2019**	**5/10/2019**
102	Construct site wide U/G drainage	15	1/8/2019	15/8/2019
103	Erection of Structural Steel Frame	60	14/5/2019	12/7/2019
104	Construct RC structure & RC deck	52	6/6/2019	15/9/2019
104a	Staircase External R.C. Wall (M/F - 1/F)	47	31/7/2019	15/9/2019
104b	Wall Formwork Erection & Rebar Fixing for 1st Concrete Casting	8	31/7/2019	7/8/2019
104c	Wall 1st Concrete Casting	1	10/8/2019	10/8/2019
104d	Wall 2nd Concrete Casting	9	11/8/2019	19/8/2019
104e	Wall 3rd Concrete Casting	7	20/8/2019	26/8/2019
104f	Remove Formwork after R.C. Wall 3rd concrete casting	1	27/8/2019	27/8/2019
104g	Bamboo scaffold modification	4	28/8/2019	31/8/2019
104h	Staircase Construction (G/F-M/F)	16	30/7/2019	14/8/2019
104i	Staircase Construction (M/F-1/F)	16	31/8/2019	15/9/2019
105	Install Roof Cladding and Staircase metal railing & Sprinkler Pipe	56	29/7/2019	22/9/2019
105a	Roof Cladding - Scaffold, Fire Paint	28	29/7/2019	25/8/2019
105b	Roof Cladding (Part 1 - Exhibition Hall) - Cladding & Gutter Install	30	24/8/2019	22/9/2019
105c	Roof Cladding (Part 2 - Staircase & Link Bridge) - Cladding	15	1/9/2019	15/9/2019



ID	Task Name	Contractor's Programme Duration (D)	Start	Finish
105d	Metal Railing Install at Staircase	10	16/9/2019	25/9/2019
105e	Sprinkler Pipe Install along Staircase	7	16/9/2019	22/9/2019
106	External Wall Cladding (Internal Layer) & External Wall Finish	10	16/9/2019	25/9/2019
106a	Wall Cladding (Exhibition Hall - Internal Layer)	41	1/8/2019	10/9/2019
106b	Wall Cladding (Link Bridge)	15	27/8/2019	10/9/2019
106c	Wall Cladding Reinstate	12	11/9/2019	22/9/2019
106d	External R.C. Wall Finishes - Make good concrete surface, Plastering & Painting	37	30/8/2019	5/10/2019
106e	Dismantle Bamboo Scaffold	7	30/9/2019	6/10/2019
107	Interal BOH finishes & BS Installation (G/F & Staircase)	49	5/8/2019	22/9/2019
107a	Dismantle Staircase Formwork with Propping	11	5/8/2019	15/8/2019
107b	Erect Blockwork wall (G/F-M/F)	15	16/8/2019	30/8/2019
107c	Erect Blockwork wall (M/F-1/F)	10	30/8/2019	8/9/2019
107d	Staircase Wall & Ceiling Plastering	18	29/8/2019	15/9/2019
107e	Sprinkler pipe and BS install	7	16/9/2019	22/9/2019
107f	Glass Wall and Door install at Cloakroom	10	7/9/2019	16/9/2019
	Fire board false ceiling at Server Room	14	9/9/2019	22/9/2019
108	Closure of B1 lift lobby (Stage 1) - Building breakthrough, link bridge connection & FS pip	30	27/5/2019	25/6/2019
109	Closure of B1 lift lobby (Stage 2) - Finishes & Cladding Reinstate	93	22/6/2019	22/9/2019
110	**Building Services Installation**	**152**	**29/4/2019**	**27/9/2019**
111	Procurement and delivery of major BS equipment	99	29/4/2019	5/8/2019
112	Electrical - Light Fitting	83	29/4/2019	20/7/2019
113	Electrical - Conduit & Trunking	83	29/4/2019	20/7/2019
114	Electrical - MCB, MCCB & Distribution Board	83	29/4/2019	20/7/2019
115	Electrical - Cable & Accessories	83	29/4/2019	20/7/2019
116	MVAC - VRF air handing unit	78	29/4/2019	15/7/2019
117	MVAC - Filter unit	78	29/4/2019	15/7/2019
118	MVAC - Split type air conditioning units	78	29/4/2019	15/7/2019
119	MVAC - Inline Fan	78	29/4/2019	15/7/2019
120	MVAC - AHU / Fanb Control Panel	99	29/4/2019	5/8/2019
121	MVAC - S.S. Fire Damper	99	29/4/2019	5/8/2019
122	MVAC - GI Pipe & CU Pipe	78	29/4/2019	15/7/2019
123	MVAC - Air Duct Silencer	88	29/4/2019	25/7/2019
124	FS - FM200	53	29/5/2019	20/7/2019
125	FS - AFA Panel and equipment	53	29/5/2019	20/7/2019
126	FS - GI Pipe & Valve	67	15/5/2019	20/7/2019
127	FS - Fire Hydrant, Hose Reel, FS Inlet & Sprinkler Head	67	15/5/2019	20/7/2019
128	Assess date for BS installation	26	26/7/2019	4/9/2019
129	to Sever Room and MVAC Room on G/F	1	26/7/2019	26/7/2019
130	to M/F	1	4/9/2019	4/9/2019
131	Electrical Installation	**124**	**27/5/2019**	**27/9/2019**
132	Underground cable duct & cable pit	73	27/5/2019	7/8/2019
133	Underground cable laying from Building 3	2	10/8/2019	11/8/2019
134	On-site installation on G/F	44	27/7/2019	8/9/2019
135	On-site installation on M/F	18	5/9/2019	22/9/2019
136	Testing and commissioning	3	23/9/2019	25/9/2019
137	Power energization from LV Main Switch Room of Building 3 to VC	1	26/9/2019	26/9/2019
138	Energisation	1	27/9/2019	27/9/2019
139	MVAC Installation	**45**	**27/7/2019**	**30/9/2019**
140	On-site installation on G/F	44	27/7/2019	8/9/2019
141	On-site installation on M/F	18	5/9/2019	22/9/2019
142	Testing and commissioning	8	23/9/2019	30/9/2019
143	Fire Services Installation	**77**	**18/7/2019**	**2/10/2019**
144	Alteration and diversion of existing sprinkler pipes at Building 1	40	18/7/2019	26/8/2019
145	On-site installation on G/F	30	27/7/2019	25/8/2019
146	On-site installation on M/F	18	5/9/2019	22/9/2019
147	Connect FS Pipe to existing pipeline	18	5/9/2019	22/9/2019
148	AFA Re-programming & connection	18	5/9/2019	22/9/2019
149	Pipe Testing and commissioning; pressure test	10	23/9/2019	2/10/2019
150	CCTV System	**26**	**5/9/2019**	**30/9/2019**
151	Alteration of existing installation	14	5/9/2019	18/9/2019
152	Site installation	18	5/9/2019	22/9/2019
153	Testing & comissioning	8	23/9/2019	30/9/2019
154				
155	**FSI Inspection & Certificate**	**40**	**25/9/2019**	**3/11/2019**
156	FS Form 314 and FS 501 preparation and submission	13	25/9/2019	7/10/2019
157	FS Inspection	9	8/10/2019	16/10/2019
158	FS Certificate	18	17/10/2019	3/11/2019
159				
160	**Interior fitting out works by OSCAR**	**45**	**21/10/2019**	**4/12/2019**
161	G/F Cloakroom	45	21/10/2019	4/12/2019
162	Fire staircase from G/F to M/F	14	21/10/2019	3/11/2019
163	Link bridges to M/F & 1/F of Buidling 1	14	28/10/2019	10/11/2019
164	**Façade cladding (external layer) & G/F outer skin by OSCAR**	**28**	**23/10/2019**	**19/11/2019**
165	**Exhibits and Equipment Installation by Adbrownies**	**293**	**1/5/2019**	**17/2/2020**
166	**Pre-construction stage**	**135**	**1/5/2019**	**12/9/2019**
167	Design shop drawings	80	1/5/2019	19/7/2019
168	~~Statutory submission~~			
169	Material submission for approval	78	15/5/2019	31/7/2019
170	Mock-up for approval (if any)	45	1/6/2019	15/7/2019
171	Procurement for long-lead item	90	25/6/2019	22/9/2019
172	Off-site fabrication	90	15/6/2019	12/9/2019
173	**Construction stage**	**142**	**29/9/2019**	**17/2/2020**
174	Setting out review and confirmation	5	3/10/2019	7/10/2019
174a	Install Ceiling Grid System for LAV hanging at M/F level by OSCAR	25	17/10/2019	10/11/2019
174b	Temporary open of access panel from external cladding by OSCAR	4	17/10/2019	20/10/2019
175	Construction site Pre-handover to Adbrownies	1	29/9/2019	29/9/2019
176	Main construction works by Adbrownies	85	30/9/2019	23/12/2019
176a	M/F Floor Screeding & vinyl tile laying with protection	8	30/9/2019	7/10/2019
176b	Staircase (M/F-1/F) Finishes	8	30/9/2019	7/10/2019
176c	270-degree Projection Wall erection	14	11/11/2019	24/11/2019
176d	Partition Wall (Straw board) erection	14	18/11/2019	1/12/2019
176e	Install corrugated panel around the dome exhibit	14	25/11/2019	8/12/2019
176f	Install "Big waster & waste bins" and exhibit items	14	8/12/2019	21/12/2019
176g	Clean up	2	22/12/2019	23/12/2019
177	Electrical installation	28	11/11/2019	8/12/2019
178	IT, LAV cabling works	14	18/11/2019	1/12/2019
178a	Cat 6	6	18/11/2019	23/11/2019
178b	Audio	3	25/11/2019	27/11/2019
178c	Dome	2	27/11/2019	28/11/2019
178d	Others	2	28/11/2019	29/11/2019
178e	Racks & Cable Termination (Server Room)	4	2/12/2019	5/12/2019
179	Dust free LAV equipment installation	20	27/12/2019	27/1/2020
180	Full dome installation	6	14/1/2020	19/1/2020
180a	DOME EFX Equipment Installation	6	19/1/2020	24/1/2020
180b	Control Interface	15	19/1/2020	2/2/2020
181	Testing and commissioning	20	19/1/2020	13/2/2020
182	Furniture delivery & Setup	4	19/1/2020	22/1/2020
183	Client inspection ad defect rectificaton	7	10/2/2020	16/2/2020
184	Handover to Client	1	17/2/2020	17/2/2020
185	**Completion of Vistor Centre**	**1**	**17/2/2020**	**17/2/2020**