



#### **BIMS GROUP LIMITED**

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CHEUNG LEE STCHAI WAN, HONG KONG

REGISTERED COMPANIES IN THE PHILIPPINES, HONG KONG, AUSTRALIA, UAE, AND SEYCHELLES.

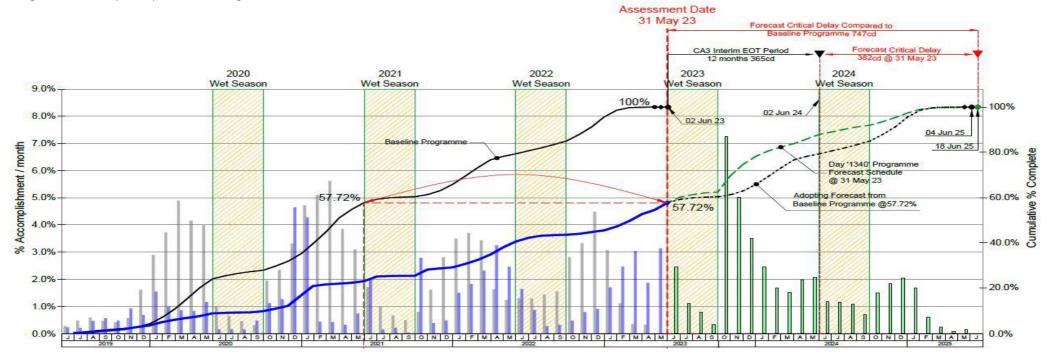
PROJECT TITTLE : Yangon-Mandalay Railway Improvement Project Phase-1 CP101
SUBJECT : MONTHLY PROGRESS STATUS SUMMARY REPORT

PERIOD ENDING : 02-June-2023

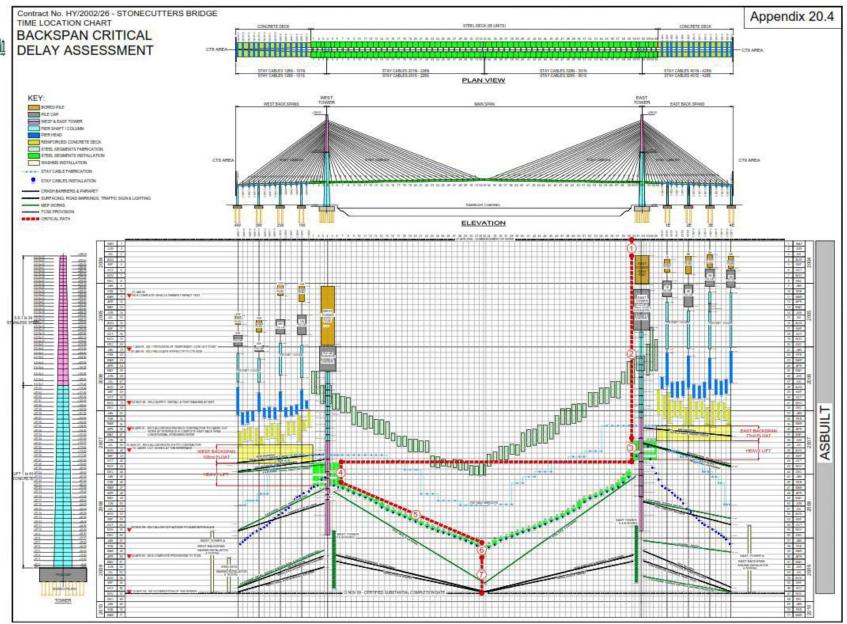
Section Name	Particular	Contract Completion Date	Interim EoT	Revised Time for Completion	Current Forecast Early Completion	Current Remaining Forecast Delay	Current Total Delay against Original Contract	Overall Construction Progress (Based on Duration)			
			(Based on CA3)	(Based on CA3)	Date	after CA3 (in Days)	(in Days)	Previous	This Month	Current	
1.1	Pazundaung (Excl.) / Ywatagyi (Incl.)	02-Jun-23	12 Months	02-Jun-24	18-Jun-25	(382)	(747)	13.09%	3.07%	16.16%	
1.2	Ywatagyi (Excl.) / Tongyi (Incl.)	02-Nov-21	30 Months	02-Jun-24	26-Mar-24	67	(876)	77.73%	3.10%	80.83%	
1.3	Tongyi (Excl.) / Bago (Incl.)	02-Sep-21	33 Months	02-Jun-24	26-Feb-24	96	(908)	81.45%	2.78%	84.23%	
	Bridge No. 50 Completion	02-Jun-23	12 Months	02-Jun-24	22-Nov-23	192	(174)	81.82%	8.19%	90.01%	
	Bridge No. 58 Completion	02-Jun-23	12 Months	02-Jun-24	05-Dec-23	179	(187)	83.16%	7.62%	90.78%	
	Bridge No. 32 Completion	02-Jun-23	12 Months	02-Jun-24	23-Jul-24	(52)	(418)	42.50%	4.02%	46.52%	
	Bridge No. 33 Completion	02-Jun-23	12 Months	02-Jun-24	24-May-24	8	(358)	44.90%	5.50%	50.40%	
ov	ERALL CONSTRUCTION PROGRESS	02-Jun-23	12 Months	02-Jun-24	18-Jun-25	(382)	(747)	54.59%	3.13%	57.72%	

#### NOTE:

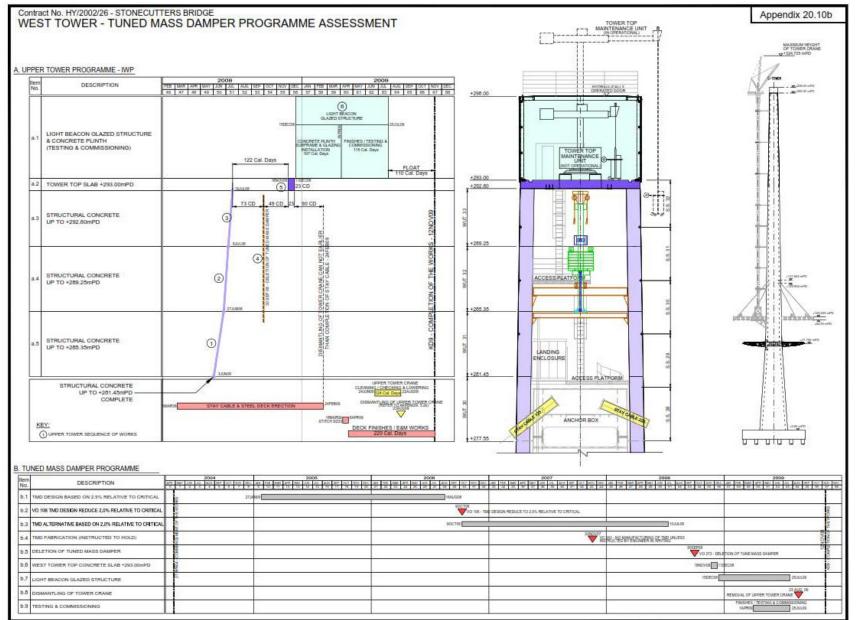
- 1. Revised Time for Completion in accordance with Contract: CP/101/MR(ML)/2018 dated 29 April 2022
- 2. The Data Date is 02-June-23
- 3. Additional future impact for Covid -19 pandemic, State of Emergency and other unforeseen circumstances and variations are not included
- 4. Progress is based on Day 1340 Updated Baseline Programme





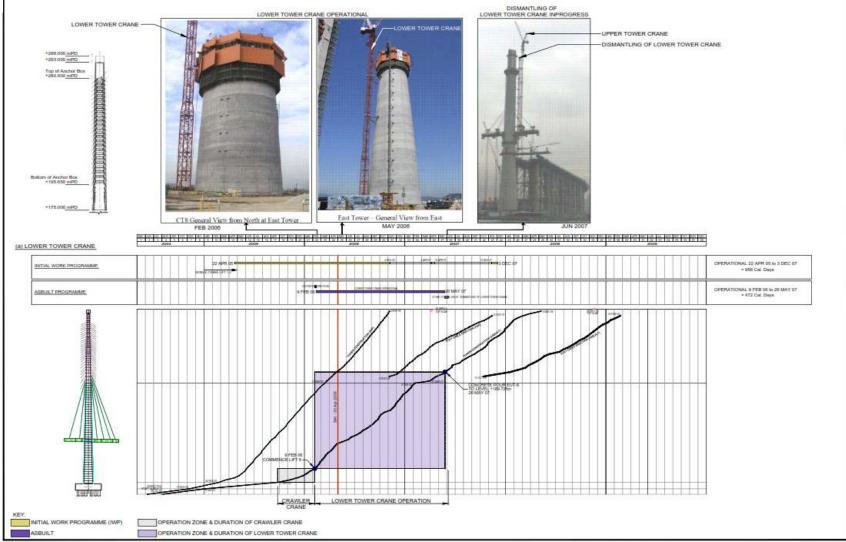




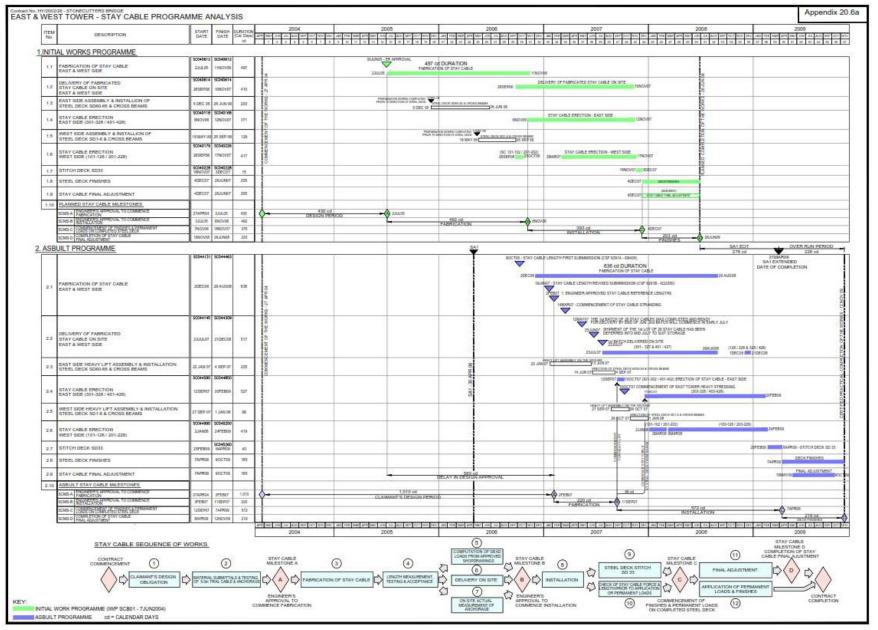


Contract No. HY/2002/26 - STONECUTTERS BRIDGE APPENDIX 5.1b EAST TOWER CRANEAGE UTILIZATION - IWP v ACTUAL 5.1b Upper East Tower Crane ERECTION OF UPPER TOWER CRANE INPROGRESS UPPER TOWER CRANE OPERATIONAL =175.000 mPD (b) UPPER TOWER CRANE OPERATIONAL 26 APR 06 to 17 OCT 66 = 181 Cal. Days ASSULT PROGRAMME ONOLE 12085-971. ENDOF UPPER TOWER CRANE OPERATIONAL INITIAL WORK PROGRAMME (IWP) OPERATION ZONE & DURATION OF CRAWLER CRANE ASBUILT OPERATION ZONE & DURATION OF LOWER TOWER CRANE

APPENDIX 5.1a









## Midfield Terminal Building

Geographic Abu Dhabi, United Arab
Location: Services Emirates Pre- and Post
Rendered: Contract BIM support Tekla

Software Tools Structures, AutoCAD

Software Tools Structur

Used: Project BIMS Group was engaged by Murray & Roberts
Description: Contractors on the new Abu Dhabi Airport a
major project development for the UAE

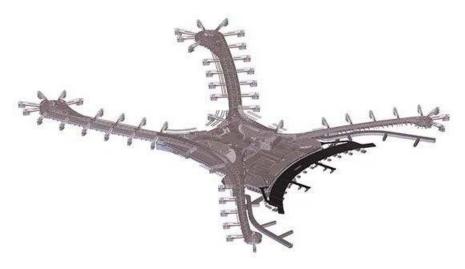
Government.

BIMS Group provided 3D modelling services, construction sequencing, and construction logistics models during the pre-contract stage.

Due to the extensive knowledge of the project available within BIMS Group support has also been provided to the supply chain during the

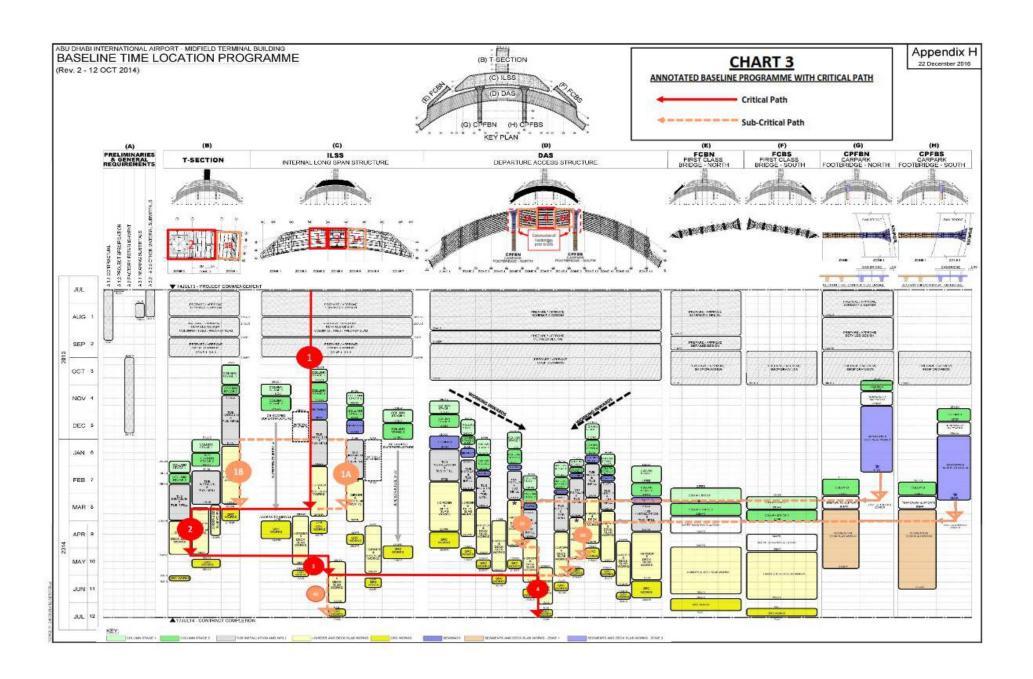
construction stage.





ABU CHABI INTERNATIONAL AIRPORT - MORIELD TERMINAL BUILDING Summary of Delaying Event Appendix C Sheet 1 of 3

пем	DESCRIPTION	Start Date		Duration Cal Days (pproximate)		2013 2 A S O N O				17	B 19 3	10 20 21	J A S.	27 28 33	SE SE SE	A W						0 N 0 J	
ANNE	D PROGRAMME									E	DT 1 - C	UT OFF		EOT 2 -	CUT-OFF				FORE	CAST			
	Project Commencement	1488.13	2 3		I,	₹14JUL 13	THE			TIT	Y				1		1111						
12	Contract Period (304 Working Days)	14,83,13	17303.14	369			_		73534														
1.3	Contract Completion		17/101.14					Y	Norwick 14		l i												
	PROGRAMME Project Constitutionaries	1444.13			I.	V14,02,13		L	•						CF	1,323cd	LAY	(8	ATA ATE DECIG				
22	Potecast Contract Period	1438.13	DEPENDE	1,001	F	NACE IS					_												
23	Forecast Contract Completion	15000.13	20FEB10	1000																		29720	115 8
-		_	33,141,0																			47.2	
Y DEL	AYING EVENTS																						
3.1	EVENT 1 - DAS & ILSS - EPS Bearing Parts	15AA 13	158P14	414	15.54		+	_	198914				1.77										
32	EVENT 2 - T-Section - POT Bearings	inaa in	28907/15	867	1558.0									2004	VIS.								
3.3	EVENT 3 - DAS - GRC Blast Requirements	1833,54	2070818	1,022				1875.340												-			0 H H 21
3.4	EVENT 4 - T-Section - Work Progress Deby	2300113	EFYAME	367		ancru .						TZMASY	in.										ALC: N
35	EVENT 5 - 8.55 Column Design / Construction	1DEC 13	17202.14	229	-	ipec i			TAA.34							+	+		!				
-	Delays	1372214	31JAN15	355	-		D)+		1		27.446					++							
3.0	EVENT 6 - DAS Column Design / Construction Delay FUENT 7 - DAS LiGates and DE State - Devolution		-		1	110					21,346					+++			i -				
3.7	EVENT 7 - DAS I-Gleder and PC States - Production Debays		2700718	511			4	ALBUTA						27OCTI									
3.8	Event 6 - T-Section - Design Change & Variation	JUAN14	4AUG15	581		1,14/614	_						AAJIC 15										
3.9	EVENT 9 - T-Section - Additional GRC Works at Voic Area	SAPRIS	26FEB17	327											BARRI		_	_	or other	26FE3517			
3.10	EVENT 10 - Pootbridge Design / Construction Changes & Delay	(SEPI3	1358,17	1.400	1	SEP130	$\overline{}$	_	_	-	-	_	_	_		-	_	_	-	-	III LJULT7		
3,11	EVENT 11 - DAS Embedment & Associated Thickening Changes	146615	SPECIE.	186								TAU	15	_	LFEB1	1							
3.12	EVENT 12 - DAS - Re-design of Prelighting System	tutivis	ISPERIO	263								1.00000	_	_	ipro	1516							
3.13	EVENT 13 - DAS & KSS - Sheel Link Bridge - Design Change	130915	18FEB16	265								130115	_		and the	1516							
3.14	EVENT 14 - DAS Philish Level Change	IMARIS	EFYAMOE	91							MARIE	30M	rris										
2.15	EVENT 13 - DAS - 4 Edge Piers - Revised Geometry	TZMAY15	10AUG15	91								ZMAY15	HAUGE	5									
3,10	EVENT Nr ILSS & T-Section - GMC Design Lined Change	16AUG15	20MAY17	642	İ						T I	10	NUG 11								MAYET		
3.17	EVENT 17 - T-Section - GMC Scaliops - Design Charge	305EP24	BAU015	313	1				305EP14				DAUG15										Н
2.18	EVENT 18 - PCB - Revised Load & Geometry Chang		DST CLAM																				
3.18	EVENT 19 - DAS Lower State & Bricking - Blast Requirement	23JUN15		222			+++		+			20,000,000			10.AN1								
-	The state of the s			-	-		+		-			appears 15			JULIAN T								
3.20	EVENT 20 - PCB - Suspension of Work  EVENT 21 - CPPB Gardry Bridge Access	175EP15	TNOVIE	418	1						- i		175EP115					7NO					
3.21	Requirements	-	1000718	902	-											2	JLA.18	1000					
3.22	EVENT 22 - PCB - Redweign of Expension Joint	BURARIE	INDVIE	245											SANAPI SCH			SNO BERNO	VOIE .				
3.72	EVENT 23 - Acceleration Works	1444	28JUL 15	130							THANKS	-	28,01.15										
3.24	EVENT 24 - ILSS - Additional Dispringma	SJANIS	24,83915	171						SPATS	-	_	AJUNIS										
3.25	EVENT 25 - CFPB - Segment 01 - Design Change	18202.18	300CT16	105							Ì					- 180	LA.10 B	NOCK:	1				
3,26	EVENT 26 - Macellaneous Issues	2300113	1952715	1977		250CF13100000000	_				_	-	10	SEP13									
3.27	EVENT 27 - Prostation of Crisrage	100713	15AUG16	1,050		100713			_		-		_	_		_	154	LIGHT					
3.20	EVENT 28 - Wronglid Back charges	100713	asrenia	1,012		100113			_				_	_		-		-			*******		W 10 25
3.29	EVENT 29 - E. Construct Claims	ZIMANIS	2070818	1,076							ZIMAR	-							e comm		-	*****	0 H M 25
3.20	EVENT 30 - T-Section Variation Works	18JUL14	20MAY15	313	-		+++	1835,141				JOHN	VIII.						1				100
-	******************************			_	1		+++	1800/141				140							ì				
3.21	EVENT 31 - Pinercial Hartings / Interest	TALIG15	2070010	943	-		-					1AU	412						1				
3.32	EVENT 32 - Management of Change	11000,14	asrtmia	1,522				1826.048											-			*****	21
- 1		1	27	- 1	1																		





#### **EVENT 1 - DAS & ILSS - EPS BEARING PADS**

#### 1.1 Basis of EOT and Cost Claim

# Summary of Sub-Claim

- 1.1.1.1 In accordance with Appendix E, Clause 4.2.67 of the LOA Agreement, (see Appendix S, page 000019), GPCC was obliged to include within its scope the required bearings for all the bridges.
- GPCC considered the use of seismic bearings that would accommodate the 1.1.1.2 precast design. The use of special "Friction-Pendulum" bearings was excluded as per item 7 of GPCC offer letter QP-13016R6 date 4 July 2013 (see Appendix 1.4, page 000005 and Appendix T, page 000005) stating;

## Basis of the Claim

- 1.1.2.1 Upon award of the Contract, our designer, E-Construct proceeded with the design of the precast bridges. During our meeting with TCAV and the bearing supplier "Alga" on 4 August 2013, E-Construct confirmed that they shall calculate the bearing loads to determine if we shall adopt "friction pendulum" bearing pad or mechanical pad (with spring) as proposed in the last workshop (see Appendix 1.4, page 000012)
- 1.1.2.2 On 15 September 2013, GPCC formally received the bearing design drawings that noted the bearing geometry and rotation in two directions to be confirmed (see Appendix 1.4, pages 000013 to 000016).
- 1.1.2.3 On 19 October 2013, GPCC received a quotation for the Friction Pendulum bearings that were assumed 16 times more expensive than GPCC budget (see Appendix 1.4, page 000017).

## Time, Cost and Additional Effect of the Claim

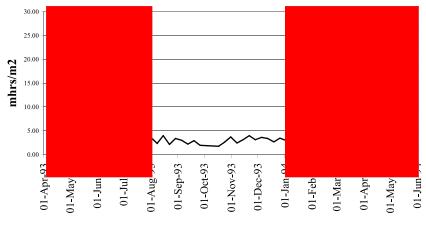
- 1.1.3.1 Delay in the design and supply of the bearings severely impacted the procurement and necessitated the installation of temporary bearings.
- 1.1.3.2 Additionally, the construction of the column for Stage 2 construction was severely delayed and impacted the project.
- We have prepared a Summary Programme and Fragmented Programme as 1.1.3.3 Appendix 1.2 and 1.3 respectively. The total consequence of the issue affected the project by 279 calendar days.

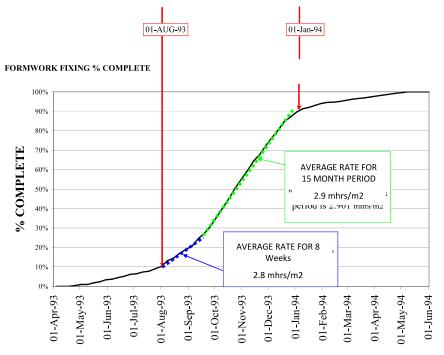


Measured Mile Productivity Delay Assessment









# MEASURED MILE

Tsing Ma Bridge Construction

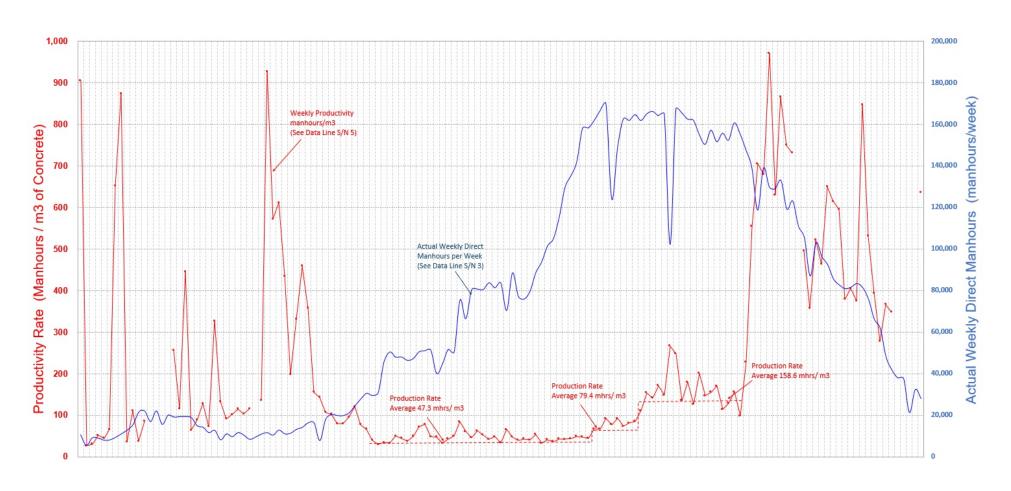
35,000 m2 of Formwork Fixing

## Advantages

- a) Measures Disruption
- b) Acceleration Claims
- c) Establishes Performance

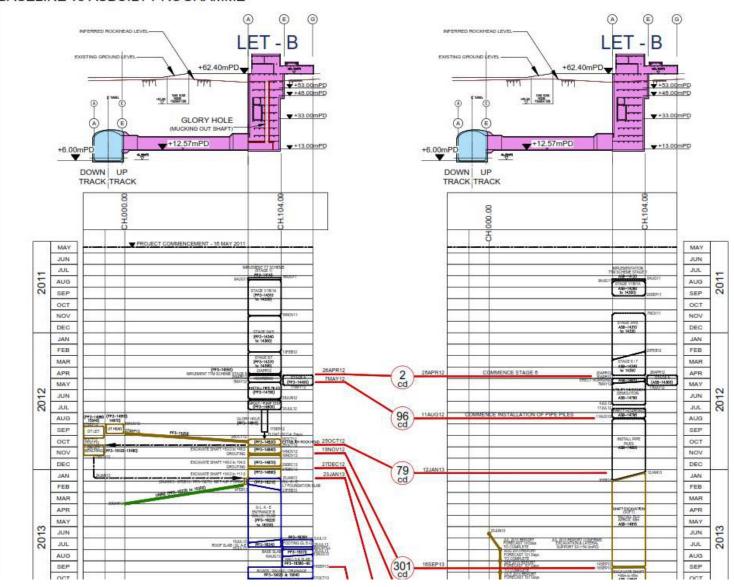


## Measured Mile Productivity Delay Assessment





#### BASELINE vs ASBUILT PROGRAMME





# Baseline Productivity Delay Assessment



## Baseline Productivity Delay Assessment

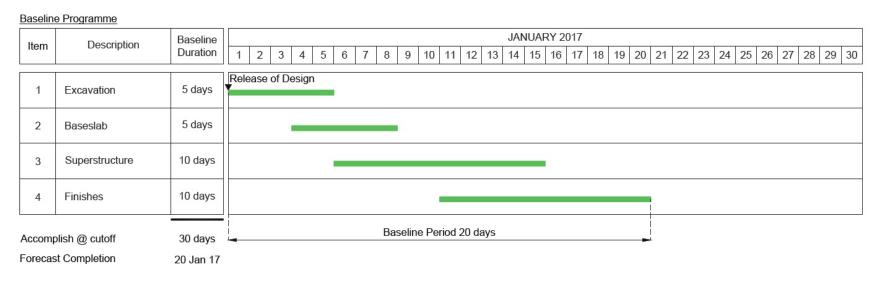
- Adopted the As-Planned compared to the Asbuilt Programme together with a more rigorous analysis assessing the delays at intervals during the construction of each building (i.e. time window/time slice analysis).
- ➤ Delay assessment methodology considers the actual progress over increments at a particular point in time. It recognizes any re-sequencing/modifications of the construction logic due to the effects of the delaying events.
- > Analysis is based on the contemporaneous records (i.e daily diaries and progress reports) to access which party was responsible for the delay at the precise point during the construction.



## Methodology – Hypothetical Plan (1/9)

## Step 1 Baseline Programme

Create simple chart of each activity to show the logic between the activities to complete the construction from 1 January 2017 to 20 January 2017.



In essence, the Subcontractor needs to complete 30 day/points of works to complete the works in 20 days (Say an average of 1.5 day points/day). Since we are adopting Baseline Productivity, the analysis is not distorted.



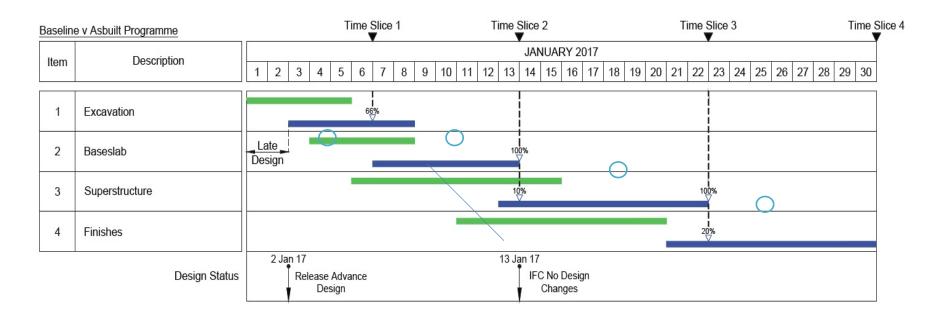
## Step 2 – Asbuilt Programme

- ➤ I reviewed and <u>initially</u> adopted the asbuilt start and finish dates of each activity a shown in the weekly/monthly reports. Then, I reviewed the site diaries to verify the accuracy of the weekly/monthly reports to confirm the accuracy of the dates.
- ➤ To provide a fair assessment of each parties responsibility, I chose various time slices during the construction. For example, receipt of the first design, completion of base slab, superstructure, cladding, masonry work and finishes to assess the party responsible for the delays (if any).



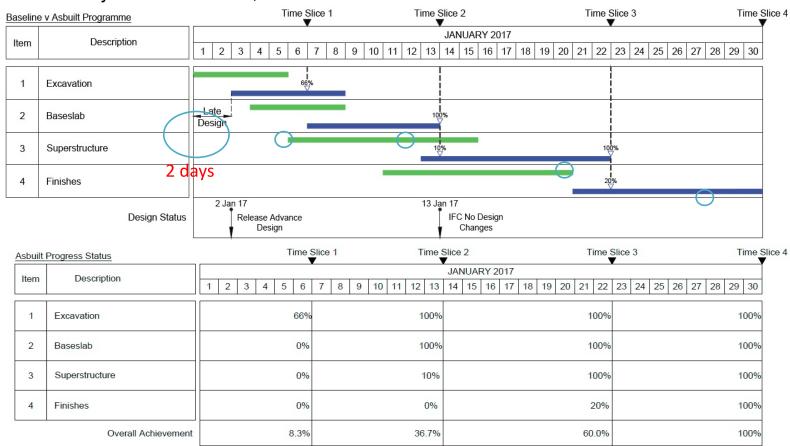
As shown in my hypothetical example, I chose four-time slices as follows;

- Time Slice 1 Before the Commencement of Baseslab
- Time Slice 2 Completion of Baseslab
- Time Slice 3 Completion of Superstructure
- Time Slice 4 Substantial Completion of Building





Then, I assess the actual progress of works based on the actual accomplishment of each activity as shown below;



# BIMS odology – Hypothetical Plan (6/9)

Asbuilt	Progress Status	Time	Slice 1 Time S	Slice 2 Time	Slice 3 Time Slice 4
Item	Description				
		1 2 3 4 5 6	7 8 9 10 11 12 13	14   15   16   17   18   19   20   21   22	23 24 25 26 27 28 29 30
1	Excavation	66%	6 100%	100%	100%
2	Baseslab	0%	100%	100%	100%
3	Superstructure	0%	10%	100%	100%
4	Finishes	0%	0%	20%	100%
	Overall Achievement	8.3%	36.7%	60.0%	100%

Item	Description of Work	Baseline		- Art	Delay	Assessment Cut	off Period	(Time Slice)		
item	Description of Work	cd	06-Jan	n-17	13	-Jan-17	22	-Jan-17	30-J	an-17
				7		9		8		
1	Excavation	5	66%	3.3	100%	5.0	100%	5.0	100%	5.0
2	Baseslab	5	0%		100%	5.0	100%	5.0	100%	5.0
3	Superstructure	10	0%	-	10%	1.0	100%	10.0	100%	10.0
4	Finishes	10	0%	-	0%	-	20%	2.0	100%	10.0
			37.						- 4	
(A)	Accomplishment @ Cut Off	30		3.3		11.0		22.0		30.0
(B)	Equivalent % Complete			11.0%		36.7%		73.3%		100.0%
(C)	Balance of Period	20	J <del>.</del>	18	Diff	erence 6d 12		6		(A.E.)
(D)	Forecast Completion @ Cut Off	20-Jan-17		24-Jan-17		25-Jan-17		28-Jan-17		30-Jan-17
(E)	Achieved in Period			11.0%		25.7%		36.7%		26.7%
(F)	Time Equivalent			2		6		6	-,	6
(G)	Add to previous window		Late De	esign 2 days	s l	12-Jan-17		19-Jan-17		28-Jan-17
(H)	Delay to this window					1		3		2
(1)	Delay Forecast @ Cut Off	1		4		5		8		10
(J)	Total Delay	10	Evcay	vation Delay	v 2 days					

Excavation Delay 2 days



Item	Description of Work	Baseline	Delay Assessment Cut off Period (Time Slice)										
item	Description of Work	cd	06-Jar	1-17	13-J	an-17	22-	Jan-17	30-Jan-17				
				(7)		9		<u>8</u>					
1	Excavation	5	66%	3.3	100%	5.0	100%	5.0	100%	5.			
2	Baseslab	5	0%	-	100%	5.0	100%	5.0	100%	5.			
3	Superstructure	10	0%	-	10%	1.0	100%	10.0	100%	10.			
4	Finishes	10	0%	- ]	0%	-	20%	2.0	100%	10.			
(A)	Accomplishment @ Cut Off	30		3.3		11.0		22.0		30.			
(B)	Equivalent % Complete			11.0%		36.7%		73.3%		100.0			
(C)	Balance of Period	20	- <del>1</del> 0	18	Differe	ence 6d 12		6	100	-			
(D)	Forecast Completion @ Cut Off	20-Jan-17		24-Jan-17		25-Jan-17		28-Jan-17		30-Jan-			
(E)	Achieved in Period			11.0%		25.7%		36.7%		26.			
(F)	Time Equivalent			2		6		6					
(G)	Add to previous window		Late De	sign 2 days	L	12-Jan-17		19-Jan-17		28-Jan-			
(H)	Delay to this window		Lutte De	31611 2 days		1		3					
(1)	Delay Forecast @ Cut Off	V.		4		5		8		1			
(J)	Total Delay	10	- Fyeey	ation Delay	2 days								

