လွွန်းပြင် ရေသန့်စင်စက်ရုံ တည်ဆောက်ခြင်းလုပ်ငန်း

လုပ်ငန်းလျာထားချက်နှင့် ပြီးစီးမှုဇယား (စုစုပေါင်းပြီးစီးမှု - ၆၁%)

စဉ်	တည်ဆောက်ရေးလုပ်ငန်း	အရေအတွက်	အတိုင်းအတာ
၁။	Pre-engineering Work	1 unit	
၂။	မြေသားပြုပြင်ခြင်းနှင့်ဆက်စပ်လုပ်ငန်းများ	1 unit	
၃။	Treated Water Reservoir	1 unit	(46 x 35)m
၄။	Rapid Sand Filter	2 units	(48 x 40)m
၅။	Sedimentation Basin	4 units	(52 x 27)m
၆။	Dividing Well	1 unit	h = 14 m d = 15 m
၇။	Intake Pumping House	1 unit	(39 x 29)m
၈။	Pre-sedimentation Pond ကျောက်စီခြင်း	1 unit	
၉။	33 kV High Tension Line သွယ်တန်းခြင်း	-	11.5 miles
၁၀။	33 kV Sub-station ဓါတ်အားခွဲရုံ ဆောက်လုပ်ခြင်းနှင့်ဆက်စပ်လုပ်ငန်းများ	1 unit	
၁၁။	လမ်းလုပ်ငန်း (တျောက်ခင်းခြင်း)	1 unit	
၁၂။	Raw Water Pipe Line & Pumping Station	1 unit	

添付資料-6 YCDCの施工工程表

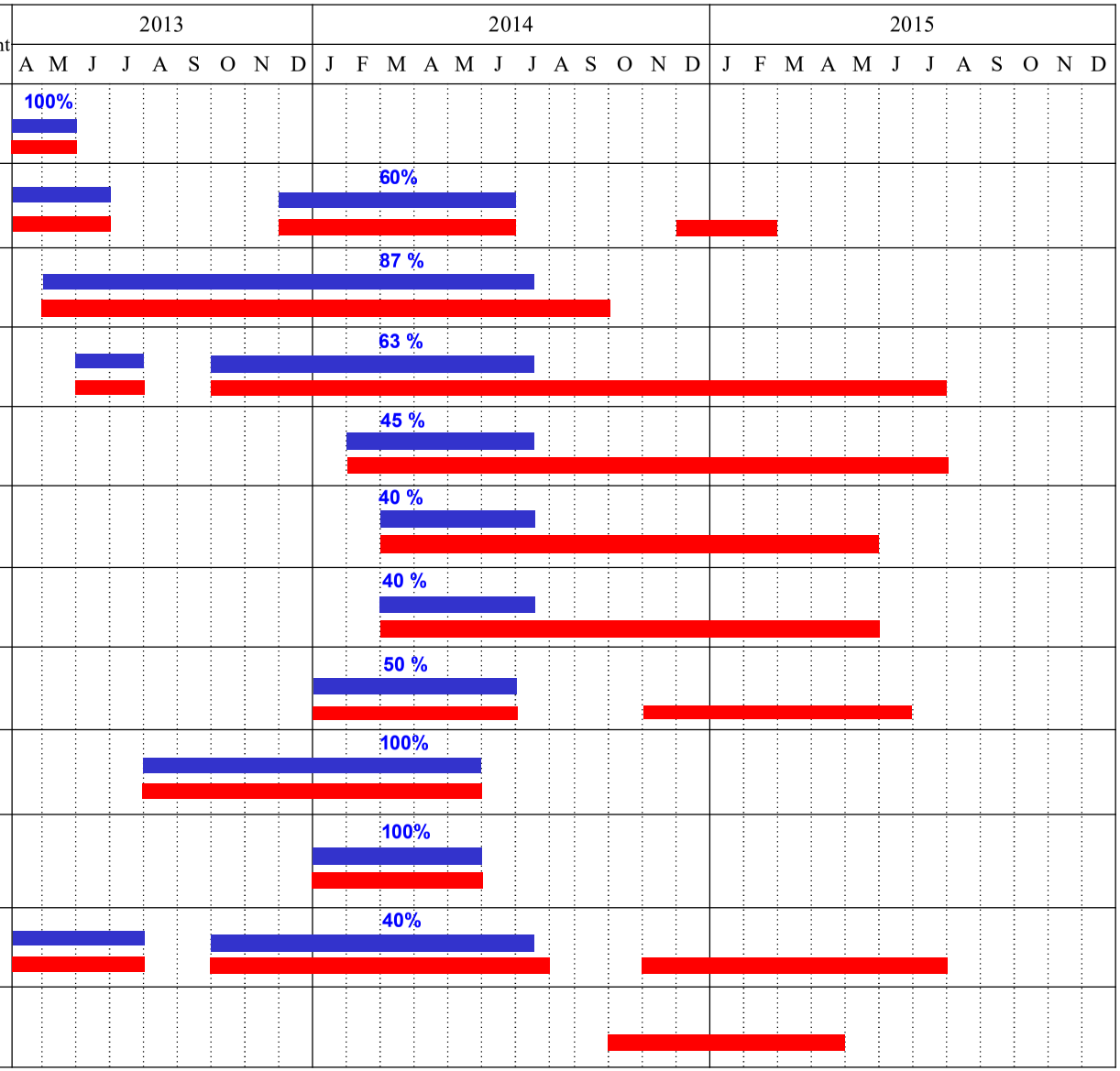
添付資料-6-1

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 61%)

July 2014

Sr No	Items	Number	measurement
1	Pre-engineering Work	1 unit	
2	Earth & Road	1 unit	
3	Treated Water Reservoir	1 unit	(46 x 35)m
4	Rapid Sand Filter	2 units	(48 x 40)m
5	Sedimentation Basin	4 units	(52 x 27)m
6	Dividing Well	1 unit	h = 14 m d = 15 m
7	Intake Pumping House	1 unit	(39 x 29)m
8	Stone pitching for Pre-sedimentation Pond	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction &Accessorie works	1 unit	
11	Road	1 unit	
12	Raw Water Pipe Line & Pumping Station(Ngamoeyeik)	1 unit	

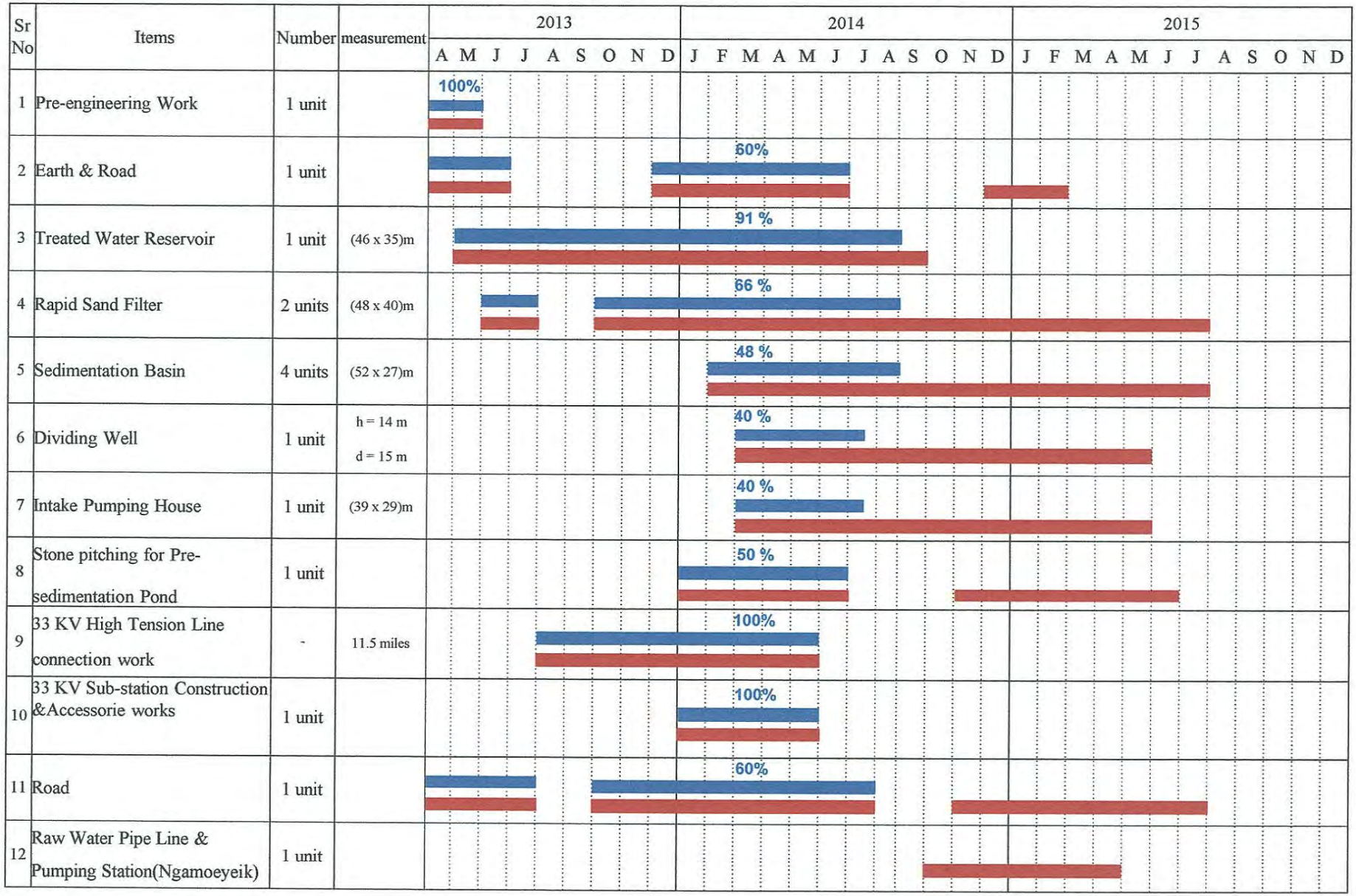


添付資料6-2

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 68%)

August 2014

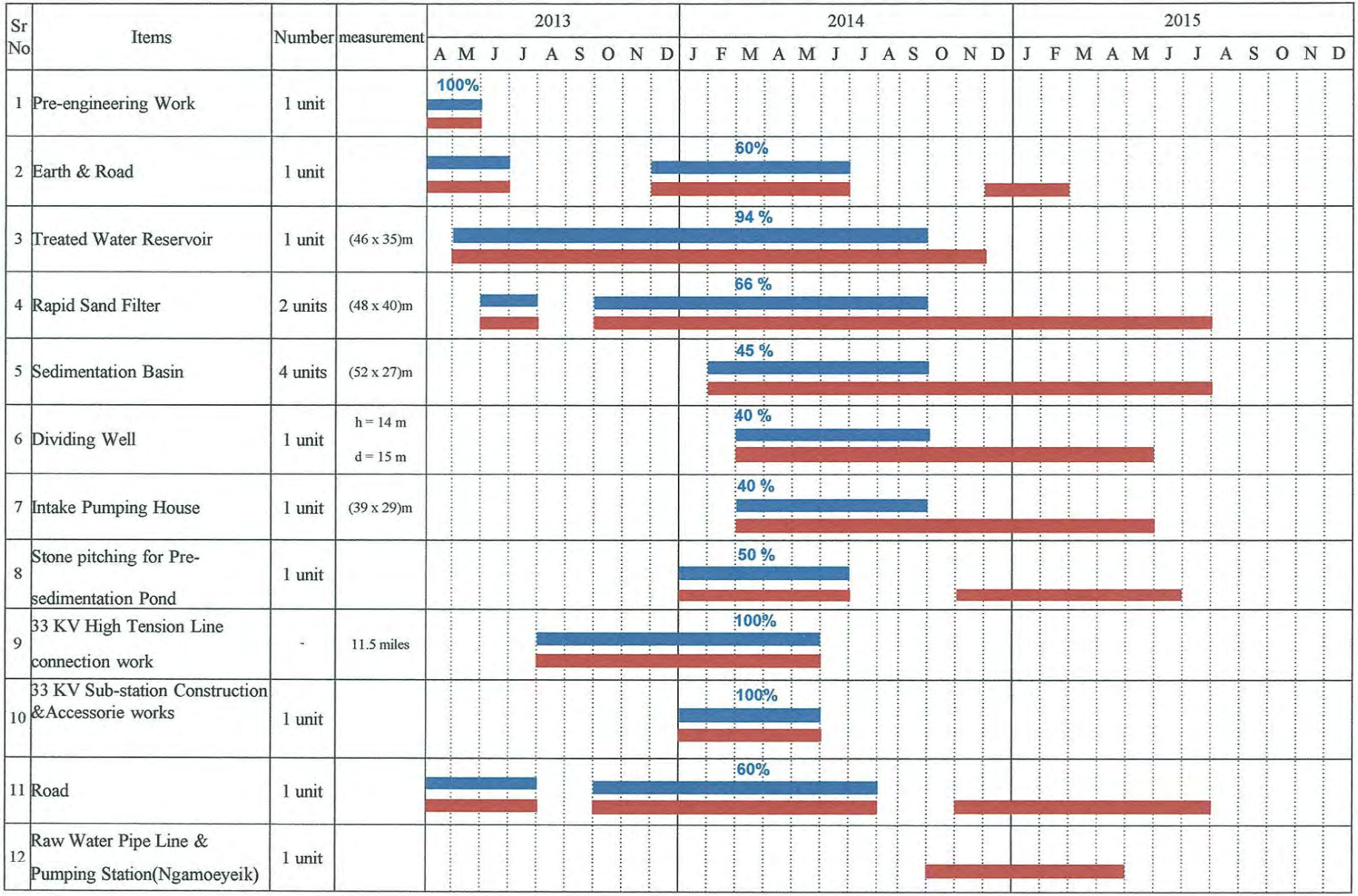


添付資料6-3

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 68.6%)

September 2014



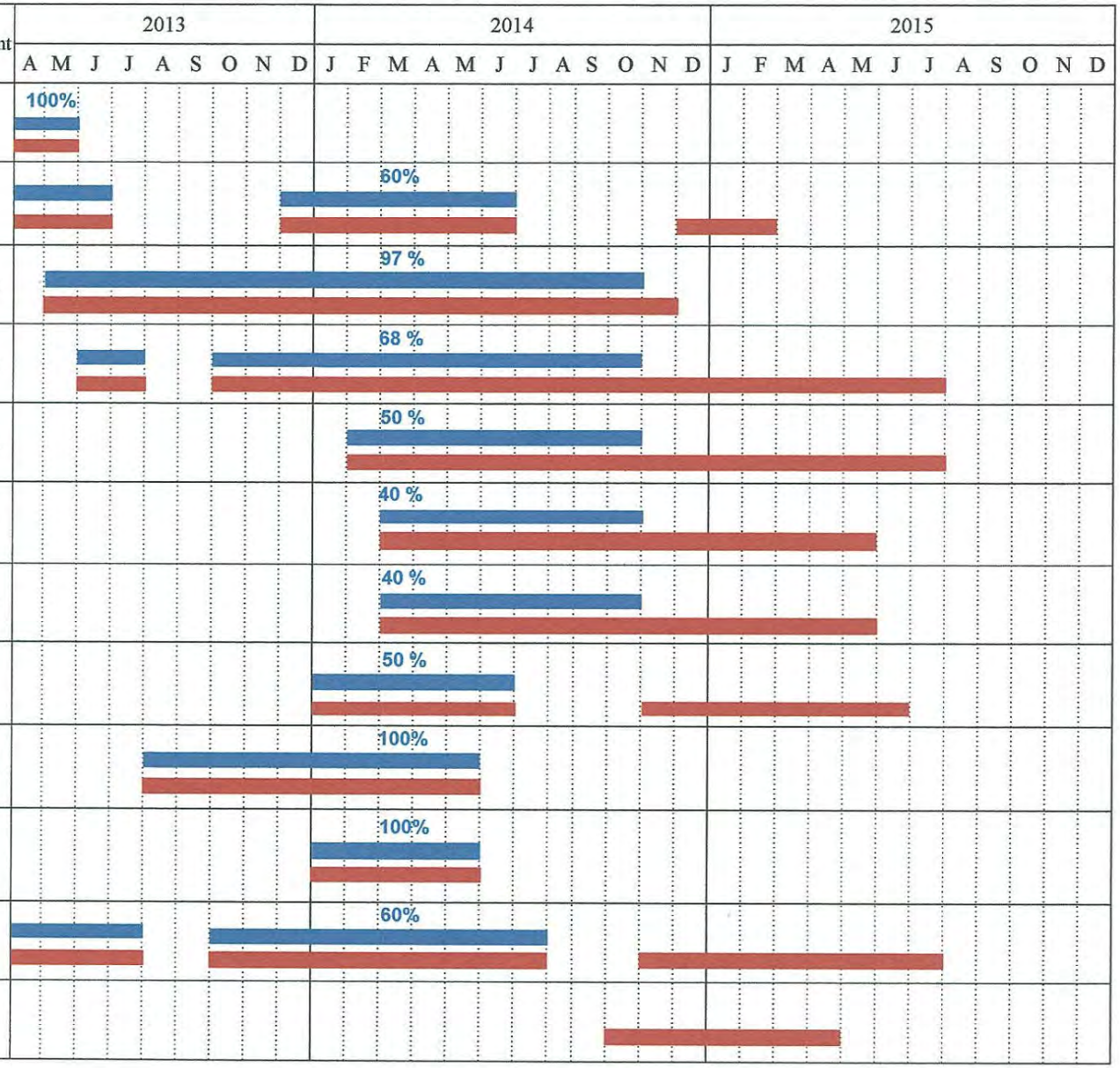
添付資料6-4

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 69.5%)

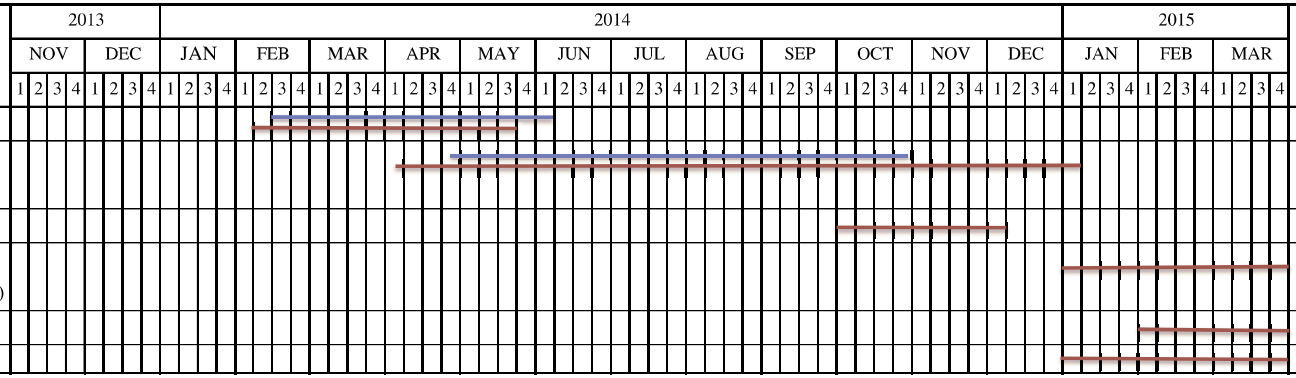
October 2014

Sr No	Items	Number	measurement
1	Pre-engineering Work	1 unit	
2	Earth & Road	1 unit	
3	Treated Water Reservoir	1 unit	(46 x 35)m
4	Rapid Sand Filter	2 units	(48 x 40)m
5	Sedimentation Basin	4 units	(52 x 27)m
6	Dividing Well	1 unit	h = 14 m d = 15 m
7	Intake Pumping House	1 unit	(39 x 29)m
8	Stone pitching for Pre-sedimentation Pond	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction &Accessorie works	1 unit	
11	Road	1 unit	
12	Raw Water Pipe Line & Pumping Station(Ngamoeyeik)	1 unit	



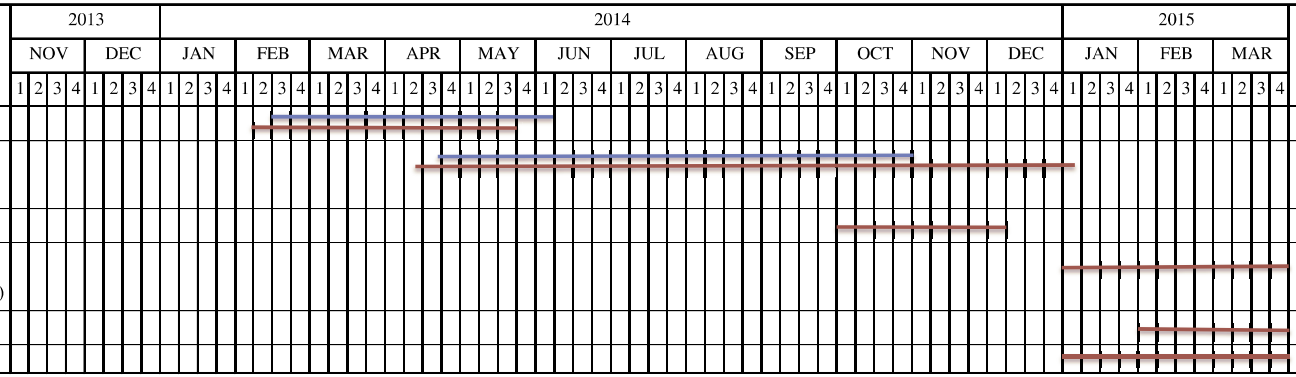
Rapid Sand Filter Work Schedule (1)

No	Particular	AMOUNT	Finishing		Remark
		M^3	Amount	Percent	
1	Base Slab Concreting	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)	1858	742	40%	
3	Filter Precast Slab	155%	-	0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)	718	-	0%	
5	Brick Work & Plastering	102	-	0%	
6	Mechanical and Electrical work	100%	-	0%	



Rapid Sand Filter Work Schedule (2)

No	Particular	AMOUNT	Finishing		Remark
		M^3	Amount	Percent	
1	Base Slab Concreting	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)	1858	881	47%	
3	Filter Precast Slab	155%	-	0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)	718	-	0%	
5	Brick Work & Plastering	102	-	0%	
6	Mechanical and Electrical work	100%	-	0%	



Clear Water Reservoir

No	Particular	2013								2014																												2015								AMOUNT	Finishing		Remark
		NOV				DEC				JAN				FEB				MAR				APR				MAY				JUN				JUL				AUG				SEP				OCT				NOV				DEC				JAN				FEB				MAR				M^3	Amount	Percent	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1	Base Slab Concreting																																																																	1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)																																																																		1239	1239	100%	
3	Roof Beam-Slab																																																																	815	505	62%	
4	Mechanical and Electrical work																																																																			-	0%		

Sedimentation Basin (1)

No	Particular	2013								2014																												2015								AMOUNT	Finishing		Remark
		NOV				DEC				JAN				FEB				MAR				APR				MAY				JUN				JUL				AUG				SEP				OCT				NOV				DEC				JAN				FEB				MAR				M^3	Amount	Percent	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1	Base Slab Concreting																																																																	1051	525.5	50%	
2	Super Structure Concreting (Wall,Beam,Column)																																																																	1027.22	0	0%	
3	Roof slab																																																																	216m3	-	0%	
4	Mechanicl and Electrrical work																																																																	100%	-	0%	

Sedimentation Basin (2)

No	Particular	2013								2014																												2015								AMOUNT	Finishing		Remark
		NOV				DEC				JAN				FEB				MAR				APR				MAY				JUN				JUL				AUG				SEP				OCT				NOV				DEC				JAN				FEB				MAR				M^3	Amount	Percent	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1	Base Slab Concreting																																																																	1051	525.5	50%	
2	Super Structure Concreting (Wall,Beam,Column)																																																																	1027.22	0	0%	
3	Roof slab																																																																	216m3	-	0%	
4	Mechanicl and Electrrical work																																																																	100%	-	0%	

Sedimentation Basin (3)

No	Particular	2013								2014																																2015				AMOUNT	Finishing		Remark
		NOV				DEC				JAN				FEB				MAR				APR				MAY				JUN				JUL				AUG				SEP				OCT				NOV				DEC				JAN				FEB				MAR							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting																																																									1051	525.5	50%	
2	Super Structure Concreting (Wall,Beam,Column)																																																											1027.22	0	0%	
3	Roof slab																																																											216m3	-	0%	
4	Mechanicl and Electrrical work																																																											100%	-	0%	

Sedimentation Basin (4)

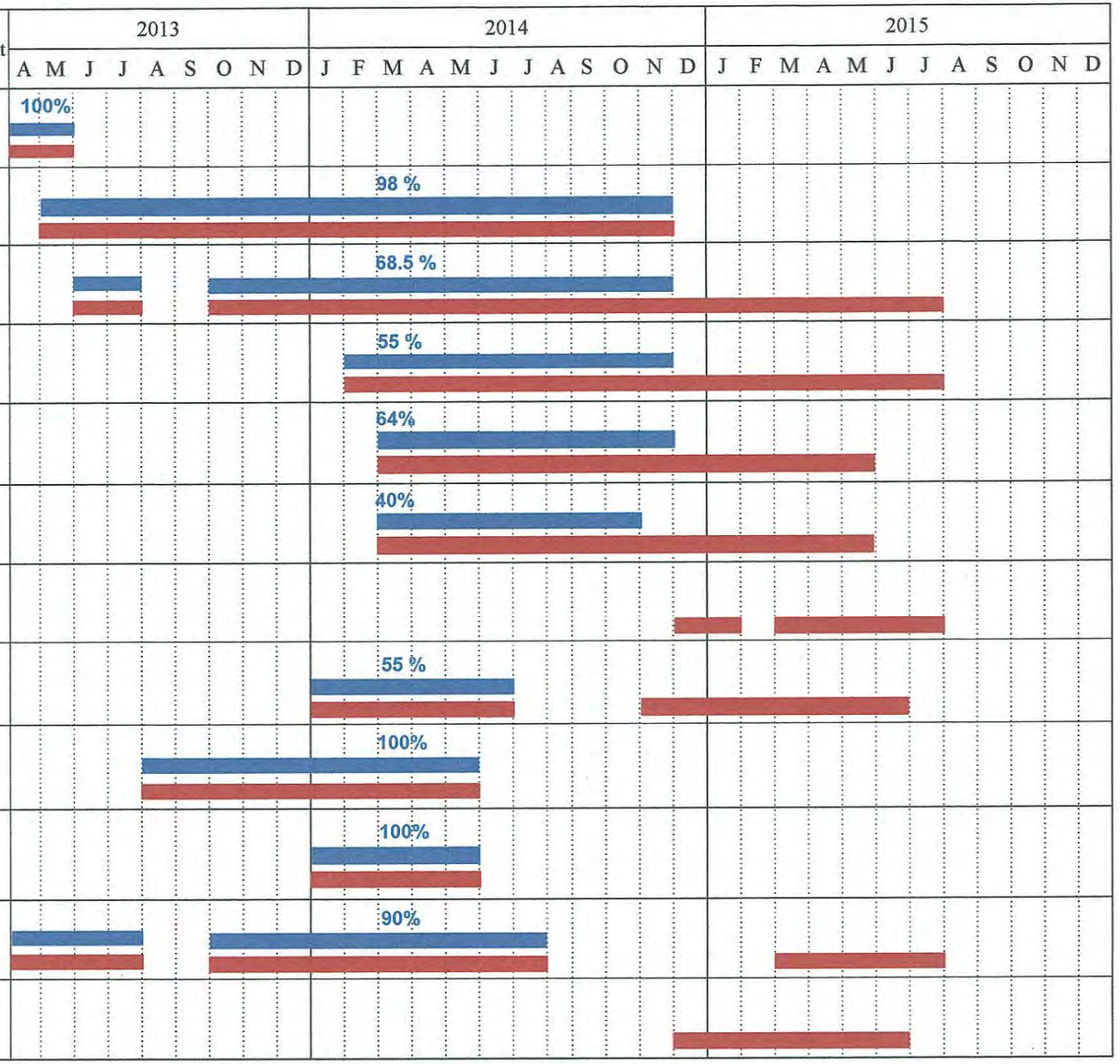
No	Particular	2013								2014																																2015				AMOUNT	Finishing		Remark
		NOV				DEC				JAN				FEB				MAR				APR				MAY				JUN				JUL				AUG				SEP				OCT				NOV				DEC				JAN				FEB				MAR							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting																																																									1051	525.5	50%	
2	Super Structure Concreting (Wall,Beam,Column)																																																											1027.22	0	0%	
3	Roof slab																																																										216m3	-	0%	
4	Mechanicl and Electrrical work																																																										100%	-	0%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 70%)

November 2014

Sr No	Items	Number	measurement
1	Pre-engineering Work	1 unit	
2	Treated Water Reservoir	1 unit	(46 x 35)m
3	Rapid Sand Filter	2 units	(48 x 40)m
4	Sedimentation Basin	4 units	(52 x 27)m
5	Dividing Well	1 unit	h = 14 m d = 15 m
6	Intake Pumping House	1 unit	(39 x 29)m
7	Mechanical Works (Pumps, Valves, Pipes,…)		
8	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction &Accessorie works	1 unit	
11	Road	1 unit	
12	Raw Water Pipe Line & Pumping Station	1 unit	



添付資料6-9

Clear Water Reservoir

No	Particular	2014 SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																													1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)																													1239	1239	100%	
3	Roof Beam-Slab																													815	654	80%	
4	Mechanical and Electrical work																													-	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2014 SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																													1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																													1858	892	48%	
3	Filter Precast Slab																													155	-	0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																													718	-	0%	
5	Brick Work & Plastering																													102	-	0%	
6	Mechanical and Electrical work																													-	-	0%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2014 SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																													1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																													1858	1124	60%	
3	Filter Precast Slab																													155	-	0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																													718	-	0%	
5	Brick Work & Plastering																													102	-	0%	
6	Mechanical and Electrical work																													-	-	0%	

Sedimentation Basin (1)

No	Particular	2014 SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																													1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																													1027.22	90	9%	
3	Roof slab																													216	-	0%	
4	Mechanicl and Electrrical work																													-	-	0%	

Sedimentation Basin (2)

No	Particular	2014 SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																													1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																													1027.22	90	9%	
3	Roof slab																													216	-	0%	
4	Mechanicl and Electrrical work																													-	-	0%	

Sedimentation Basin (3)

No	Particular	2014 SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																													1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																													1027.22	100	10%	
3	Roof slab																													216	-	0%	
4	Mechanicl and Electrrical work																													-	-	0%	

Sedimentation Basin (4)

No	Particular	2014 SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																													1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																													1027.22	-	0%	
3	Roof slab																													216	-	0%	
4	Mechanicl and Electrrical work																													-	-	0%	

Dividing Well

No	Particular	2014 SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																													150	150	100%	
2	Tie Beam Level (1)																													60	60	100%	
3	Tie Beam Level (2)																													50	50	100%	
4	Floor slab level																													74	-	0%	
5	Tie Beam Level (3)																													97	-	0%	
6	Tie Beam Level (4)																													97	-	0%	
7	Top Floor Level																													93	-	0%	
8	Mechanical & Electrical Work																													-	-	0%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 73%)

31.12.2014

Sr No	Items	Number	measurement
1	Pre-engineering Work	1 unit	
2	Treated Water Reservoir	1 unit	(46 x 35)m
3	Rapid Sand Filter	2 units	(48 x 40)m
4	Sedimentation Basin	4 units	(52 x 27)m
5	Dividing Well	1 unit	h = 14 m d = 15 m
6	Intake Pumping House	1 unit	(39 x 29)m
7	Mechanical Works (Pumps, Valves, Pipes,...)		
8	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction &Accessorie works	1 unit	
11	Road		
12	Raw Water Pipe Line & Pumping Station		

添付資料6-11

Rapid Sand Filter Work Schedule (1)

No	Particular	2014												2015												AMOUNT	Finishing		Remark
		OCT				NOV				DEC				JAN				FEB				MAR				M^3	Amount	Percent	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1	Base Slab Concreting																									1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																									1858	892	48%	
3	Filter Precast Slab																									155		0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																									718	106	15%	
5	Brick Work & Plastering																									102	-	0%	
6	Mechanical and Electrical work																									100%	-	0%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2014												2015												AMOUNT	Finishing		Remark
		OCT				NOV				DEC				JAN				FEB				MAR				M^3	Amount	Percent	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1	Base Slab Concreting																									1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																									1858	1442	78%	
3	Filter Precast Slab																									155%	-	0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																									718	-	0%	
5	Brick Work & Plastering																									102	-	0%	
6	Mechanical and Electrical work																									100%	-	0%	

Clear Water Reservoir

No	Particular	2014												2015												AMOUNT	Finishing		Remark
		OCT				NOV				DEC				JAN				FEB				MAR				M^3	Amount	Percent	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1	Base Slab Concreting																									1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)																									1239	1239	100%	
3	Roof Beam-Slab																									815	654	80%	
4	Mechanical and Electrical work																										-	0%	

Sedimentation Basin (1)

No	Particular	2014												2015												AMOUNT	Finishing		Remark
		OCT				NOV				DEC				JAN				FEB				MAR				M^3	Amount	Percent	
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1	Base Slab Concreting																									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																									1027.22	252	25%	
3	Roof slab																									216m3	-	0%	
4	Mechanicl and Electrical work																									100%	-	0%	

Sedimentation Basin (2)

No	Particular	2014												2015												AMOUNT	Finishing		Remark
		OCT				NOV				DEC				JAN				FEB				MAR							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting																									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																									1027.22	234	23%	
3	Roof slab																									216m3	-	0%	
4	Mechanicl and Electrical work																									100%	-	0%	

Sedimentation Basin (3)

No	Particular	2014												2015												AMOUNT	Finishing		Remark
		OCT				NOV				DEC				JAN				FEB				MAR							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting																									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																									1027.22	268	26%	
3	Roof slab																									216m3	-	0%	
4	Mechanicl and Electrical work																									100%	-	0%	

Sedimentation Basin (4)

No	Particular	2014												2015												AMOUNT	Finishing		Remark
		OCT				NOV				DEC				JAN				FEB				MAR							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting																									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																									1027.22	262	26%	
3	Roof slab																									216m3	-	0%	
4	Mechanicl and Electrical work																									100%	-	0%	

Iift Pump

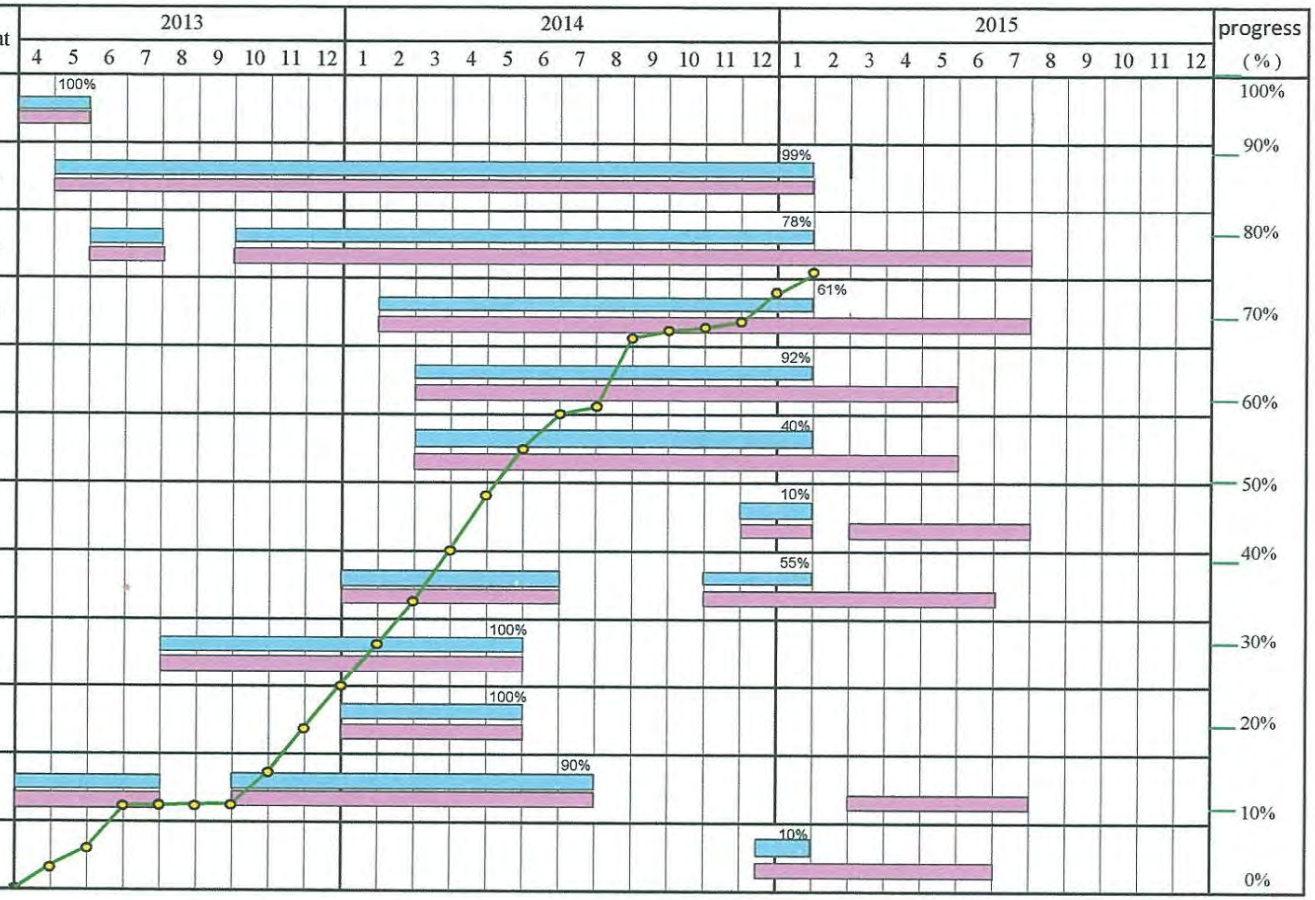
No	Particular													#												AMOUNT	Finishing		Remark
		OCT				NOV				DEC				JAN				FEB				MAR							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting																									150	150	100%	
2	Tie Beam Level (1)																									60	60	100%	
3	Tie Beam Level (2)																									50	50	100%	
4	Floor slab level																									74	74	100%	
5	Tie Beam Level (3)																									97			
6	Tie Beam Level (4)																									97			
7	Top Floor Level																									93			
8	Mechanical & Electrical Work																									100			

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 76%)

31.1.15

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Treated Water Reservoir	1 unit	(46 x 35)m
3	Rapid Sand Filter	2 units	(48 x 40)m
4	Sedimentation Basin	4 units	(52 x 27)m
5	Dividing Well	1 unit	h = 14 m d = 15 m
6	Lift Pump House	1 unit	(39 x 29)m
7	Mechanical Works (Pumps, Valves, Pipes,…)	1 unit	
8	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Road	1 unit	
12	Raw Water Pipe Line & Pumping Station	1 unit	



添付資料6-14

Rapid Sand Filter Work Schedule (1)

No	Particular	2014 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																									1858	1039	56%	
3	Filter Precast Slab																									155		0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																									718	298	42%	
5	Brick Work & Plastering																									102	-	0%	
6	Mechanical and Electrical work																									100%	-	0%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2014 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																									1858	1605	86%	
3	Filter Precast Slab																									155	-	0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																									718	203	28%	
5	Brick Work & Plastering																									102	-	0%	
6	Mechanical and Electrical work																									100%	-	0%	

Clear Water Reservoir

No	Particular	2014 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)																									1239	1239	100%	
3	Roof Beam-Slab																									815	654	80%	
4	Mechanical and Electrical work																										-	0%	

Sedimentation Basin (1)

No	Particular	2014 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																									1027.22	252	25%	
3	Roof slab																									216m3	-	0%	
4	Mechanicl and Electrrical work																									100%	-	0%	

Sedimentation Basin (2)

No	Particular	2014 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																									1027.22	273	27%	
3	Roof slab																									216m3	-	0%	
4	Mechanicl and Electrrical work																									100%	-	0%	

Sedimentation Basin (3)

No	Particular	2014 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																									1027.22	268	26%	
3	Roof slab																									216m3	-	0%	
4	Mechanicl and Electrrical work																									100%	-	0%	

Sedimentation Basin (4)

No	Particular	2014 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																									1027.22	262	26%	
3	Roof slab																									216m3	-	0%	
4	Mechanicl and Electrrical work																									100%	-	0%	

Dividing well

No	Particular	OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	# JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									150	150	100%	
2	Tie Beam Level (1)																									60	60	100%	
3	Tie Beam Level (2)																									50	50	100%	
4	Floor slab level																									74	74	100%	
5	Tie Beam Level (3)																									97	97	100%	
6	Tie Beam Level (4)																									97	97	100%	
7	Top Floor Level																									93			
8	Mechanical & Electrical Work																									100			

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 82%)

27.2.15

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Treated Water Reservoir	1 unit	(46 x 35)m
3	Rapid Sand Filter	2 units	(48 x 40)m
4	Sedimentation Basin	4 units	(52 x 27)m
5	Dividing Well	1 unit	h = 14 m d = 15 m
6	Lift Pump House	1 unit	(39 x 29)m
7	Mechanical Works (Pumps, Valves, Pipes,…)	1 unit	
8	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Road	1 unit	
12	Raw Water Pipe Line & Pumping Station	1 unit	

添付資料6-16

Rapid Sand Filter Work Schedule (1)

No	Particular	2014 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																									1858	1228	66%	
3	Filter Precast Slab																									155		0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																									718	468	65%	
5	Brick Work & Plastering																									102	-	0%	
6	Mechanical and Electrical work																									100%	-	0%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2014 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																									1858	1638	88%	
3	Filter Precast Slab																									155	-	0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																									718	718	100%	
5	Brick Work & Plastering																									102	-	0%	
6	Mechanical and Electrical work																									100%	-	0%	

Clear Water Reservoir

No	Particular	2014 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)																									1239	1239	100%	
3	Roof Beam-Slab																									815	654	80%	
4	Mechanical and Electrical work																										-	0%	

Sedimentation Basin (1)

No	Particular	2014 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																									1027.22	278	27%	
3	Roof slab																									216m3	-	0%	
4	Mechanicl and Electrrical work																									100%	-	0%	

Sedimentation Basin (2)

No	Particular	2014 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																									1027.22	387	38%	
3	Roof slab																									216m3	-	0%	
4	Mechanicl and Electrrical work																									100%	-	0%	

Sedimentation Basin (3)

No	Particular	2014 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																									1027.22	268	26%	
3	Roof slab																									216m3	-	0%	
4	Mechanicl and Electrrical work																									100%	-	0%	

Sedimentation Basin (4)

No	Particular	2014 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																									1027.22	917	89%	
3	Roof slab																									216m3	-	0%	
4	Mechanicl and Electrrical work																									100%	-	0%	

Dividing well

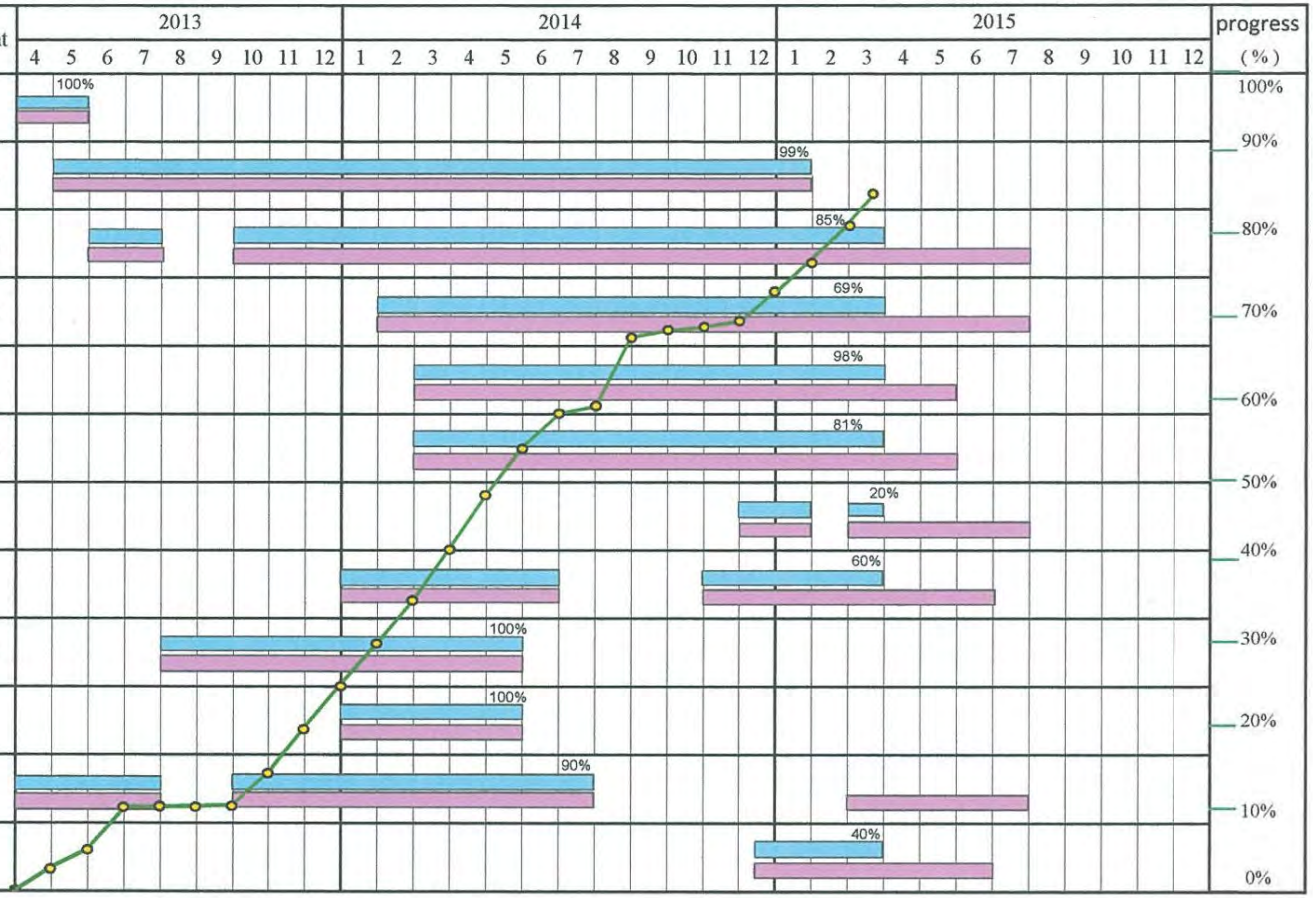
No	Particular	OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	# JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																									150	150	100%	
2	Tie Beam Level (1)																									60	60	100%	
3	Tie Beam Level (2)																									50	50	100%	
4	Floor slab level																									74	74	100%	
5	Tie Beam Level (3)																									97	97	100%	
6	Tie Beam Level (4)																									97	97	100%	
7	Top Floor Level																									93	93	100%	
8	Mechanical & Electrical Work																									100			

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 85%)

31-3-2015

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Treated Water Reservoir	1 unit	(46 x 35)m
3	Rapid Sand Filter	2 units	(48 x 40)m
4	Sedimentation Basin	4 units	(52 x 27)m
5	Dividing Well	1 unit	h = 14 m d = 15 m
6	Lift Pump House	1 unit	(39 x 29)m
7	Mechanical Works (Pumps, Valves, Pipes,…)	1 unit	
8	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Road	1 unit	
12	Raw Water Pipe Line & Pumping Station	1 unit	



添付資料6-18

Rapid Sand Filter Work Schedule (1)

No	Particular	2014 OCT 1 2 3 4	NOV 1 2 3 4	DEC 1 2 3 4	2015 JAN 1 2 3 4	FEB 1 2 3 4	MAR 1 2 3 4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting							1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)							1858	1228	66%	
3	Filter Precast Slab							155		0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)							718	685	95%	
5	Brick Work & Plastering							102	102	100%	
6	Mechanical and Electrical work							100%	-	0%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2014 OCT 1 2 3 4	NOV 1 2 3 4	DEC 1 2 3 4	2015 JAN 1 2 3 4	FEB 1 2 3 4	MAR 1 2 3 4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting							1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)							1858	1638	88%	
3	Filter Precast Slab							155	-	0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)							718	718	100%	
5	Brick Work & Plastering							102	51	50%	
6	Mechanical and Electrical work							100%	-	0%	

Clear Water Reservoir

No	Particular	2014 OCT 1 2 3 4	NOV 1 2 3 4	DEC 1 2 3 4	2015 JAN 1 2 3 4	FEB 1 2 3 4	MAR 1 2 3 4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting							1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)							1239	1239	100%	
3	Roof Beam-Slab							815	667	82%	
4	Mechanical and Electrical work								-	0%	

Sedimentation Basin (1)

No	Particular	2014 OCT 1 2 3 4	NOV 1 2 3 4	DEC 1 2 3 4	2015 JAN 1 2 3 4	FEB 1 2 3 4	MAR 1 2 3 4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	558	54%	
3	Roof slab							216m3	-	0%	
4	Mechanicl and Electrrical work							100%	-	0%	

Sedimentation Basin (2)

No	Particular	2014 OCT 1 2 3 4	NOV 1 2 3 4	DEC 1 2 3 4	2015 JAN 1 2 3 4	FEB 1 2 3 4	MAR 1 2 3 4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	949	92%	
3	Roof slab							216m3	-	0%	
4	Mechanicl and Electrrical work							100%	-	0%	

Sedimentation Basin (3)

No	Particular	2014 OCT 1 2 3 4	NOV 1 2 3 4	DEC 1 2 3 4	2015 JAN 1 2 3 4	FEB 1 2 3 4	MAR 1 2 3 4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	598	58%	
3	Roof slab							216m3	-	0%	
4	Mechanicl and Electrrical work							100%	-	0%	

Sedimentation Basin (4)

No	Particular	2014 OCT 1 2 3 4	NOV 1 2 3 4	DEC 1 2 3 4	2015 JAN 1 2 3 4	FEB 1 2 3 4	MAR 1 2 3 4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	917	89%	
3	Roof slab							216m3	-	0%	
4	Mechanicl and Electrrical work							100%	-	0%	

Dividing well

No	Particular	OCT 1 2 3 4	NOV 1 2 3 4	DEC 1 2 3 4	# JAN 1 2 3 4	FEB 1 2 3 4	MAR 1 2 3 4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting							150	150	100%	
2	Tie Beam Level (1)							60	60	100%	
3	Tie Beam Level (2)							50	50	100%	
4	Floor slab level							74	74	100%	
5	Tie Beam Level (3)							97	97	100%	
6	Tie Beam Level (4)							97	97	100%	
7	Top Floor Level							93	93	100%	
8	Mechanical & Electrical Work							100			

Lift Pumping Station

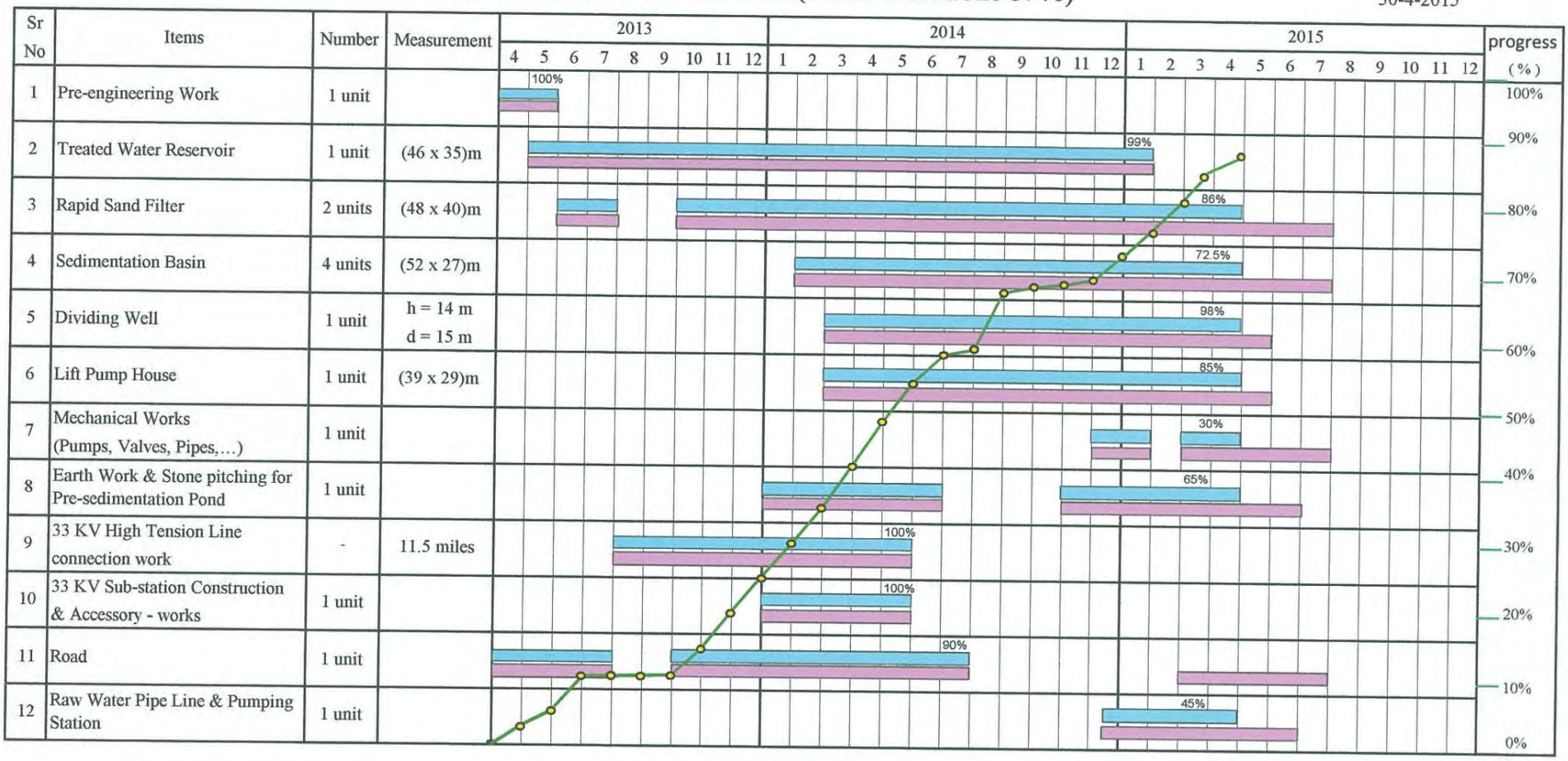
No	Particular	Jan 1 2 3 4	Feb 1 2 3 4	March 1 2 3 4	# April 1 2 3 4	May 1 2 3 4	Jun 1 2 3 4	AMOUNT M^3	Finishing Amount	Finishing Percent	Remark
1	Lean concrete									100%	
2	Pump House Base Slab							487	487	100%	
3	Pit Base slab and Mat Beam							47	47	100%	
4	Pump House & Pit wall (8')							229	229	100%	
5	Tie Beam Level & Pump House wall							118	118	100%	
6	Intake Gate Base slab							148	148	100%	
7	Pump House wall next level							185	185	100%	
8	Intake Gate wall (0 to 8.48)							142			
8	Intake Gate wall and top slab							150			

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 87%)

30-4-2015

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Treated Water Reservoir	1 unit	(46 x 35)m
3	Rapid Sand Filter	2 units	(48 x 40)m
4	Sedimentation Basin	4 units	(52 x 27)m
5	Dividing Well	1 unit	h = 14 m d = 15 m
6	Lift Pump House	1 unit	(39 x 29)m
7	Mechanical Works (Pumps, Valves, Pipes,…)	1 unit	
8	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Road	1 unit	
12	Raw Water Pipe Line & Pumping Station	1 unit	



添付資料6-20

Planned Actual

Clear Water Reservoir

No	Particular	2015 JAN 1 2 3 4	FEB 1 2 3 4	MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)							1239	1239	100%	
3	Roof Beam-Slab							815	667	82%	
4	Mechanical and Electrical work							1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2015 JAN 1 2 3 4	FEB 1 2 3 4	MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)							1858	1858	100%	
3	Filter Precast Slab							155	-	0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)							718	718	100%	
5	Brick Work & Plastering							102	102	100%	
6	Mechanical and Electrical work							1set	-	0%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2015 JAN 1 2 3 4	FEB 1 2 3 4	MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)							1858	1858	100%	
3	Filter Precast Slab							155	-	0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)							718	718	100%	
5	Brick Work & Plastering							102	102	100%	
6	Mechanical and Electrical work							1set	-	0%	

Sedimentation Basin (1)

No	Particular	2015 JAN 1 2 3 4	FEB 1 2 3 4	MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	558	54%	
3	Roof slab							216	-	0%	
4	Mechanicl and Electrrical work							1set	-	0%	

Sedimentation Basin (2)

No	Particular	2015 JAN 1 2 3 4	FEB 1 2 3 4	MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	949	92%	
3	Roof slab							216	-	0%	
4	Mechanicl and Electrrical work							1set	-	0%	

Sedimentation Basin (3)

No	Particular	2015 JAN 1 2 3 4	FEB 1 2 3 4	MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	598	58%	
3	Roof slab							216	-	0%	
4	Mechanicl and Electrrical work							1set	-	0%	

Sedimentation Basin (4)

No	Particular	2015 JAN 1 2 3 4	FEB 1 2 3 4	MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	917	89%	
3	Roof slab							216	-	0%	
4	Mechanicl and Electrrical work							1set	-	0%	

Dividing well

No	Particular	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																										M^3	Amount	Percent	
1	Base Slab Concreting																									150	150	100%	
2	Tie Beam Level (1)																									60	60	100%	
3	Tie Beam Level (2)																									50	50	100%	
4	Floor slab level																									74	74	100%	
5	Tie Beam Level (3)																									97	97	100%	
6	Tie Beam Level (4)																									97	97	100%	
7	Top Floor Level																									93	93	100%	
8	Mechanical & Electrical Work																									1set	-	0%	

Lift Pumping Station

No	Particular	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																										M^3	Amount	Percent	
1	Lean concrete																									-	-	100%	
2	Pump House Base Slab																									487	487	100%	
3	Pit Base slab and Mat Beam																									47	47	100%	
4	Pump House & Pit wall (8')																									229	229	100%	
5	Tie Beam Level & Pump House wall																									118	118	100%	
6	Intake Gate Base slab																									148	148	100%	
7	Pump House wall next level																									185	185	100%	
8	Intake Gate wall (0 to 8.48)																									142	142	100%	
9	Intake Gate wall and top slab																									150	150	100%	
10	Pump House top slab																									85	-	0%	
8	Mechanical & Electrical Work																									1set	-	0%	

Intake Pumping Station

No	Particular	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																										M^3	Amount	Percent	
1	Bored Pile (45 No)																									689	689	100%	
2	Base Slab Concrete																									304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																									147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																									147	-	0%	
5	Floor Beam & Slab (RL 6.2m)																									81	-	0%	
6	Column																									110	-	0%	
7	Window Sea Beam (RL 6.2m)																									10	-	0%	
8	Lintel Beam (RL 7.95)																									6.6	-	0%	
9	Tie Beam (RL 9.45)																									28.2	-	0%	
10	Roof Beam & Slab (RL 11.5)																									110	-	0%	
11	Brick work																									63	-	0%	
12	Plastering																									33	-	0%	
13	Window & Door																									18 Nos	-	0%	
14	Mechanical & Electrical Work																									1set	-	0%	

Raw Water Pipe Line

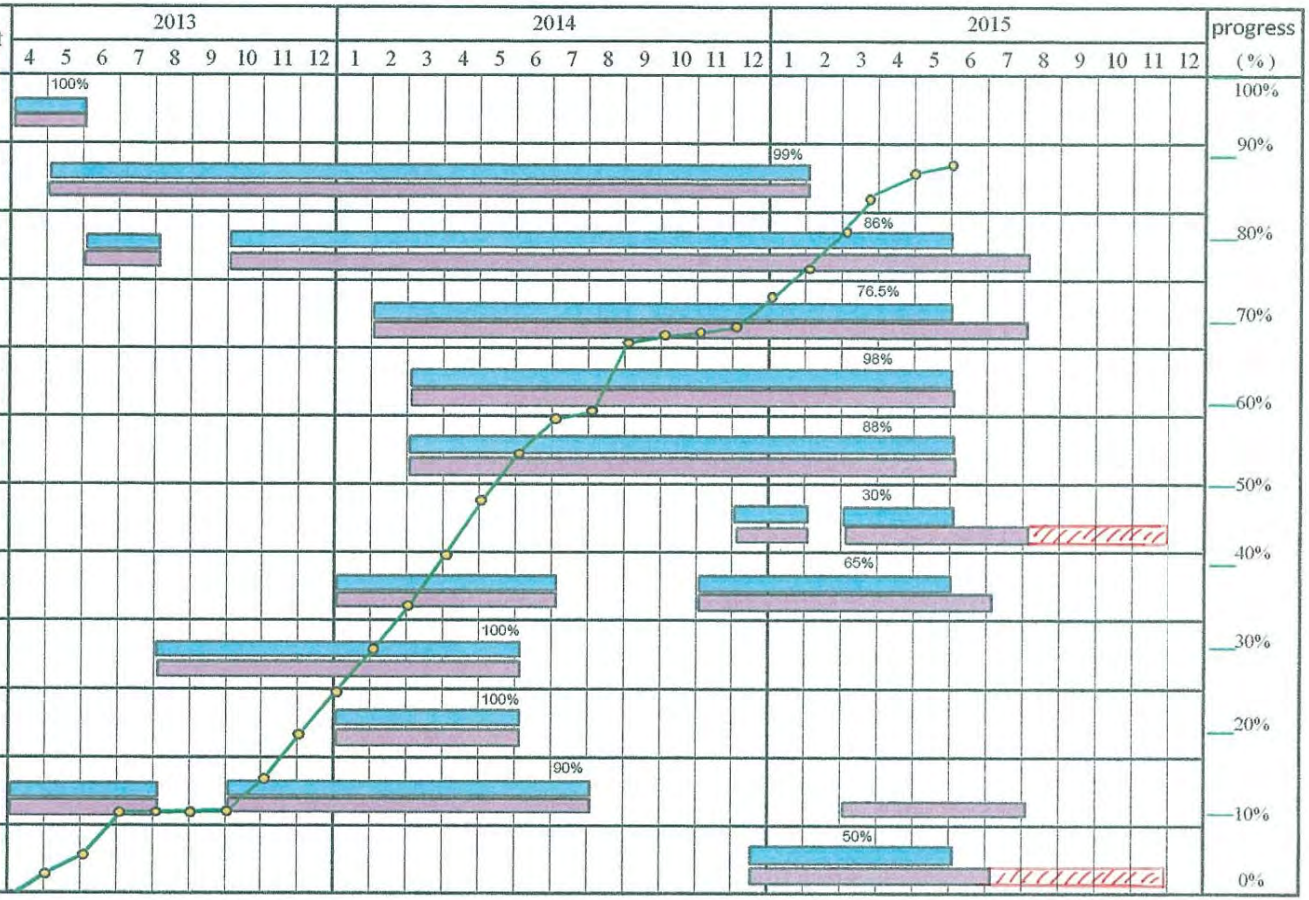
No	Particular	2015 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																										Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)																									420	72	17%	
2	No (2) pip line (Line of inner side)																									420	70	17%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 89%)

1-6-2015

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Treated Water Reservoir	1 unit	(46 x 35)m
3	Rapid Sand Filter	2 units	(48 x 40)m
4	Sedimentation Basin	4 units	(52 x 27)m
5	Dividing Well	1 unit	h = 14 m d = 15 m
6	Lift Pump House	1 unit	(39 x 29)m
7	Mechanical Works (Pumps, Valves, Pipes,…)	1 unit	
8	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Road	1 unit	
12	Raw Water Pipe Line & Pumping Station	1 unit	



添付資料6-23

Planned Actual

Clear Water Reservoir

No	Particular	2015 MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	JUL 1 2 3 4	AUG 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)							1239	1239	100%	
3	Roof Beam-Slab							815	667	82%	
4	Mechanical and Electrical work							1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2015 MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	JUL 1 2 3 4	AUG 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)							1858	1858	100%	
3	Filter Precast Slab							155	-	0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)							718	718	100%	
5	Brick Work & Plastering							102	102	100%	
6	Mechanical and Electrical work							1set	-	0%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2015 MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	JUL 1 2 3 4	AUG 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)							1858	1858	100%	
3	Filter Precast Slab							155	24	15%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)							718	718	100%	
5	Brick Work & Plastering							102	102	100%	
6	Mechanical and Electrical work							1set	-	0%	

Sedimentation Basin (1)

No	Particular	2015 MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	JUL 1 2 3 4	AUG 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	706	69%	
3	Roof slab							216	-	0%	
4	Mechanicl and Electrrical work							1set	-	0%	

Sedimentation Basin (2)

No	Particular	2015 MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	JUL 1 2 3 4	AUG 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	949	92%	
3	Roof slab							216	-	0%	
4	Mechanicl and Electrrical work							1set	-	0%	

Sedimentation Basin (3)

No	Particular	2015 MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	JUL 1 2 3 4	AUG 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	722	70%	
3	Roof slab							216	-	0%	
4	Mechanicl and Electrrical work							1set	-	0%	

Sedimentation Basin (4)

No	Particular	2015 MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	JUL 1 2 3 4	AUG 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	917	89%	
3	Roof slab							216	-	0%	
4	Mechanicl and Electrrical work							1set	-	0%	

Dividing well

No	Particular	2015 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	Amount	Finishing		Remark
																										M^3	Amount	Percent	
1	Base Slab Concreting																									150	150	100%	
2	Tie Beam Level (1)																									60	60	100%	
3	Tie Beam Level (2)																									50	50	100%	
4	Floor slab level																									74	74	100%	
5	Tie Beam Level (3)																									97	97	100%	
6	Tie Beam Level (4)																									97	97	100%	
7	Top Floor Level																									93	93	100%	
8	Mechanical & Electrical Work																									1set	-	0%	

Lift Pumping Station

No	Particular	2015 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	Amount	Finishing		Remark
																										M^3	Amount	Percent	
1	Lean concrete																									-	-	100%	
2	Pump House Base Slab																									487	487	100%	
3	Pit Base slab and Mat Beam																									47	47	100%	
4	Pump House & Pit wall (8')																									229	229	100%	
5	Tie Beam Level & Pump House wall																									118	118	100%	
6	Intake Gate Base slab																									148	148	100%	
7	Pump House wall next level																									185	185	100%	
8	Intake Gate wall (0 to 8.48)																									142	142	100%	
9	Intake Gate wall and top slab																									150	150	100%	
10	Pump House top slab																									137	137	100%	
8	Mechanical & Electrical Work																									1set	-	0%	

Intake Pumping Station

No	Particular	2015 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	Amount	Finishing		Remark
																										M^3	Amount	Percent	
1	Bored Pile (45 No)																									689	689	100%	
2	Base Slab Concrete																									304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																									147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																									147	-	0%	
5	Floor Beam & Slab (RL 6.2m)																									81	-	0%	
6	Column																									110	-	0%	
7	Window Sea Beam (RL 6.2m)																									10	-	0%	
8	Lintel Beam (RL 7.95)																									6.6	-	0%	
9	Tie Beam (RL 9.45)																									28.2	-	0%	
10	Roof Beam & Slab (RL 11.5)																									110	-	0%	
11	Brick work																									63	-	0%	
12	Plastering																									33	-	0%	
13	Window & Door																									18 Nos	-	0%	
14	Mechanical & Electrical Work																									1set	-	0%	

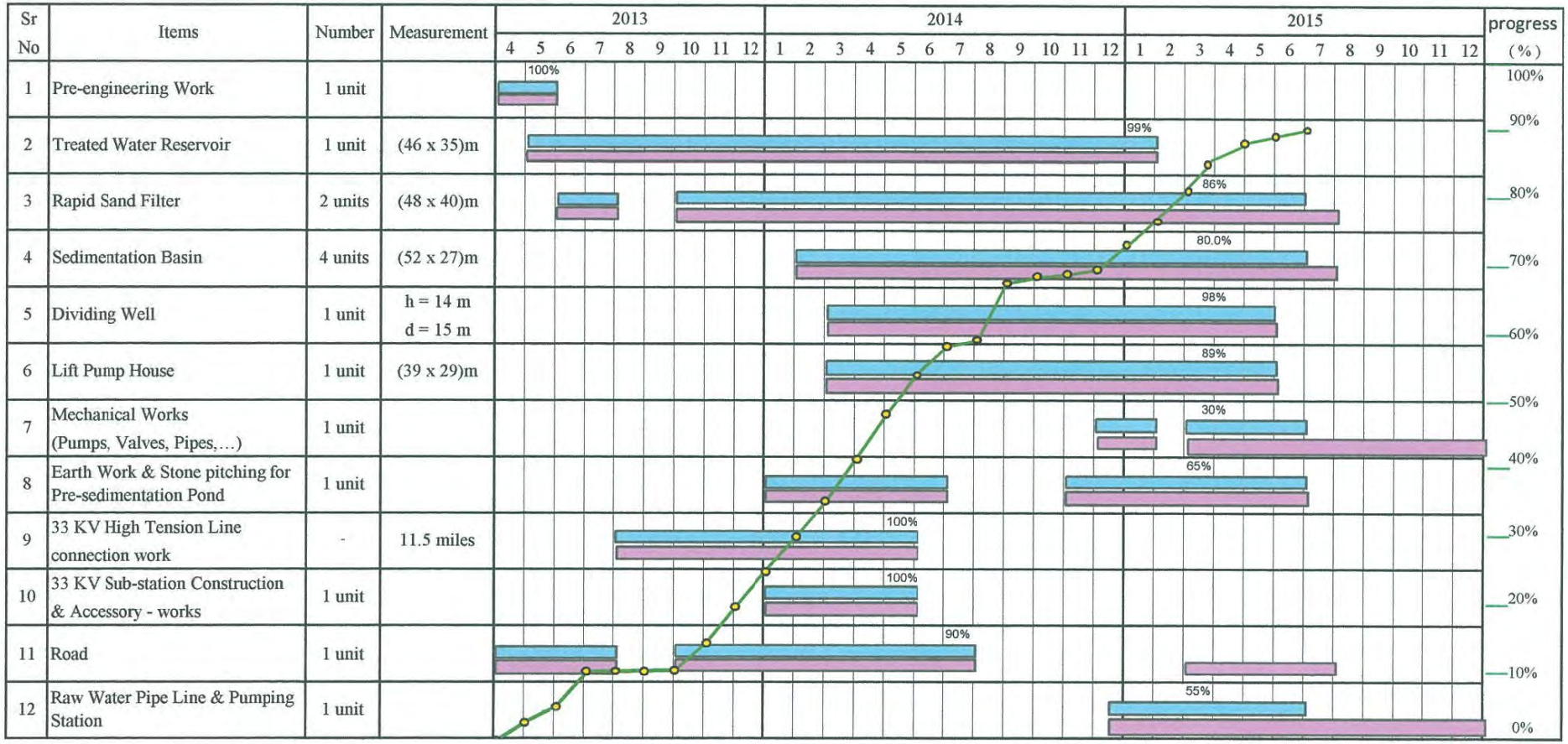
Raw Water Pipe Line

No	Particular	2015 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	Amount	Finishing		Remark
																										Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)																									420	90	21%	
2	No (2) pip line (Line of inner side)																									420	84	20%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 90%)

1-7-2015



Sr No	Items	Number	Measurement	progress (%)
1	Pre-engineering Work	1 unit		100%
2	Treated Water Reservoir	1 unit	(46 x 35)m	99%
3	Rapid Sand Filter	2 units	(48 x 40)m	86%
4	Sedimentation Basin	4 units	(52 x 27)m	80.0%
5	Dividing Well	1 unit	h = 14 m d = 15 m	98%
6	Lift Pump House	1 unit	(39 x 29)m	89%
7	Mechanical Works (Pumps, Valves, Pipes,…)	1 unit		30%
8	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit		65%
9	33 KV High Tension Line connection work	-	11.5 miles	100%
10	33 KV Sub-station Construction & Accessory - works	1 unit		100%
11	Road	1 unit		90%
12	Raw Water Pipe Line & Pumping Station	1 unit		55%

Planned Actual

Clear Water Reservoir

No	Particular	2015 MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	JUL 1 2 3 4	AUG 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)							1239	1239	100%	
3	Roof Beam-Slab							815	667	82%	
4	Mechanical and Electrical work							1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2015 MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	JUL 1 2 3 4	AUG 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)							1858	1858	100%	
3	Filter Precast Slab							155	-	0%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)							718	718	100%	
5	Brick Work & Plastering							102	102	100%	
6	Mechanical and Electrical work							1set	-	0%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2015 MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	JUL 1 2 3 4	AUG 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)							1858	1858	100%	
3	Filter Precast Slab							155	24	15%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)							718	718	100%	
5	Brick Work & Plastering							102	102	100%	
6	Mechanical and Electrical work							1set	-	0%	

Sedimentation Basin (1)

No	Particular	2015 MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	JUL 1 2 3 4	AUG 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	706	69%	
3	Roof slab							216	-	0%	
4	Mechanicl and Electrrical work							1set	-	0%	

Sedimentation Basin (2)

No	Particular	2015 MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	JUL 1 2 3 4	AUG 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	949	92%	
3	Roof slab							216	-	0%	
4	Mechanicl and Electrrical work							1set	-	0%	

Sedimentation Basin (3)

No	Particular	2015 MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	JUL 1 2 3 4	AUG 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	722	70%	
3	Roof slab							216	-	0%	
4	Mechanicl and Electrrical work							1set	-	0%	

Sedimentation Basin (4)

No	Particular	2015 MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	JUL 1 2 3 4	AUG 1 2 3 4	Amount	Finishing		Remark
								M^3	Amount	Percent	
1	Base Slab Concreting							1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)							1027.22	917	89%	
3	Roof slab							216	-	0%	
4	Mechanicl and Electrrical work							1set	-	0%	

Dividing well

No	Particular	2015 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	Amount	Finishing		Remark
																										M^3	Amount	Percent	
1	Base Slab Concreting																									150	150	100%	
2	Tie Beam Level (1)																									60	60	100%	
3	Tie Beam Level (2)																									50	50	100%	
4	Floor slab level																									74	74	100%	
5	Tie Beam Level (3)																									97	97	100%	
6	Tie Beam Level (4)																									97	97	100%	
7	Top Floor Level																									93	93	100%	
8	Mechanical & Electrical Work																									1set	-	0%	

Lift Pumping Station

No	Particular	2015 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	Amount	Finishing		Remark
																										M^3	Amount	Percent	
1	Lean concrete																									-	-	100%	
2	Pump House Base Slab																									487	487	100%	
3	Pit Base slab and Mat Beam																									47	47	100%	
4	Pump House & Pit wall (8')																									229	229	100%	
5	Tie Beam Level & Pump House wall																									118	118	100%	
6	Intake Gate Base slab																									148	148	100%	
7	Pump House wall next level																									185	185	100%	
8	Intake Gate wall (0 to 8.48)																									142	142	100%	
9	Intake Gate wall and top slab																									150	150	100%	
10	Pump House top slab																									137	137	100%	
8	Mechanical & Electrical Work																									1set	-	0%	

Intake Pumping Station

No	Particular	2015 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	Amount	Finishing		Remark
																										M^3	Amount	Percent	
1	Bored Pile (45 No)																									689	689	100%	
2	Base Slab Concrete																									304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																									147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																									147	-	0%	
5	Floor Beam & Slab (RL 6.2m)																									81	-	0%	
6	Column																									110	-	0%	
7	Window Sea Beam (RL 6.2m)																									10	-	0%	
8	Lintel Beam (RL 7.95)																									6.6	-	0%	
9	Tie Beam (RL 9.45)																									28.2	-	0%	
10	Roof Beam & Slab (RL 11.5)																									110	-	0%	
11	Brick work																									63	-	0%	
12	Plastering																									33	-	0%	
13	Window & Door																									18 Nos	-	0%	
14	Mechanical & Electrical Work																									1set	-	0%	

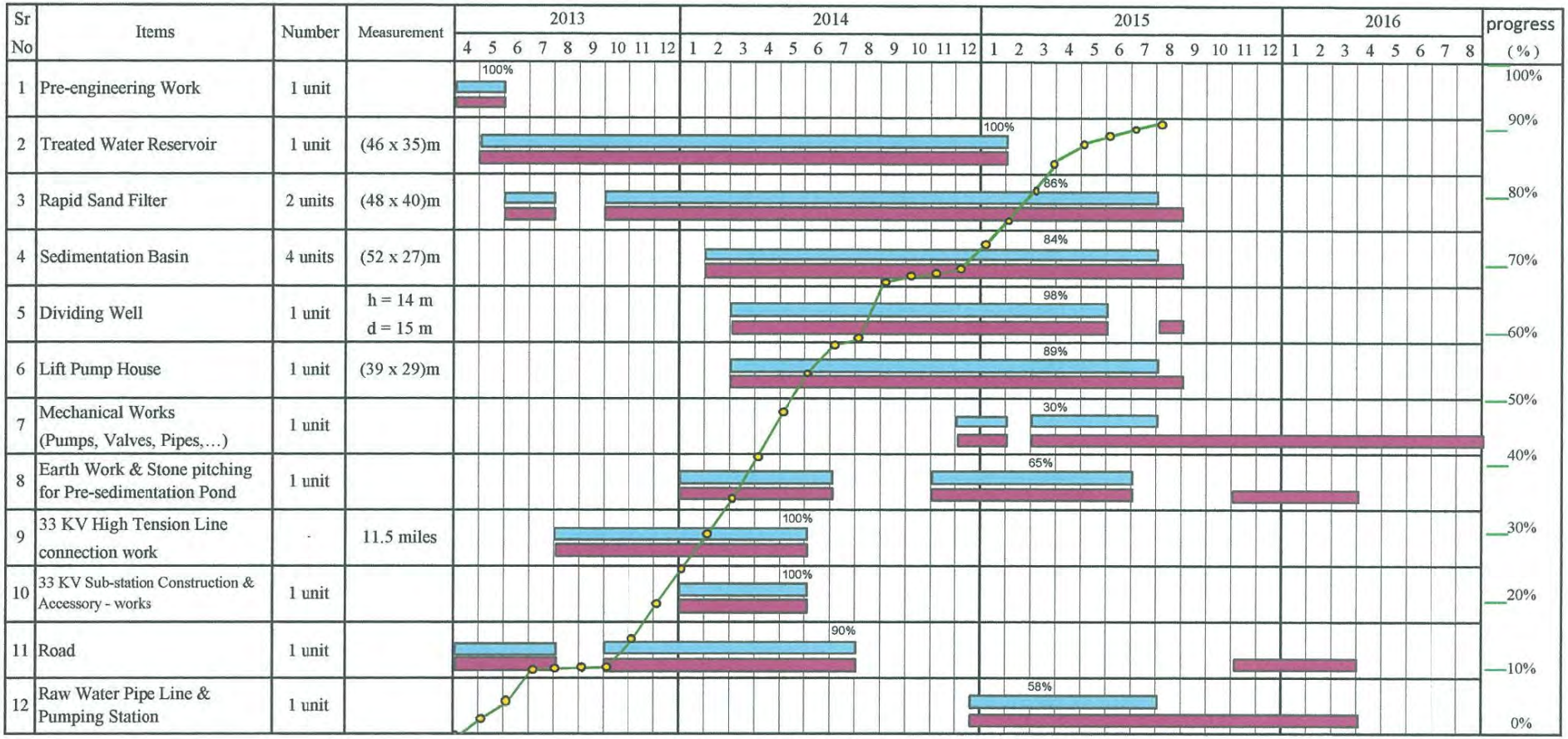
Raw Water Pipe Line

No	Particular	2015 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	Amount	Finishing		Remark
																										Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)																									420	90	21%	
2	No (2) pip line (Line of inner side)																									420	84	20%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 91%)

1-8-2015



Planned Actual

Clear Water Reservoir

No	Particular	2015 JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)																	1239	1239	100%	
3	Roof Beam-Slab																	815	667	82%	
4	Mechanical and Electrical work																	1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2015 JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																	1858	1858	100%	
3	Filter Precast Slab																	155	69	45%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																	718	718	100%	
5	Brick Work & Plastering																	102	102	100%	
6	Mechanical and Electrical work																	1set	-	0%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2015 JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																	1858	1858	100%	
3	Filter Precast Slab																	155	68	44%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																	718	718	100%	
5	Brick Work & Plastering																	102	102	100%	
6	Mechanical and Electrical work																	1set	-	0%	

Sedimentation Basin (1)

No	Particular	2015 JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1004	98%	
3	Roof slab																	216	80	37%	
4	Mechanicl and Electrrical work																	1set	-	0%	

Sedimentation Basin (2)

No	Particular	2015 JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1012	99%	
3	Roof slab																	216	80	37%	
4	Mechanicl and Electrrical work																	1set	-	0%	

Sedimentation Basin (3)

No	Particular	2015 JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	967	94%	
3	Roof slab																	216	-	0%	
4	Mechanicl and Electrrical work																	1set	-	0%	

Sedimentation Basin (4)

No	Particular	2015 JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	917	89%	
3	Roof slab																	216	-	0%	
4	Mechanicl and Electrrical work																	1set	-	0%	

Dividing well

No	Particular	2015 JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	150	150	100%	
2	Tie Beam Level (1)																	60	60	100%	
3	Tie Beam Level (2)																	50	50	100%	
4	Floor slab level																	74	74	100%	
5	Tie Beam Level (3)																	97	97	100%	
6	Tie Beam Level (4)																	97	97	100%	
7	Top Floor Level																	93	93	100%	
8	Mechanical & Electrical Work																	1set	-	0%	

Lift Pumping Station

No	Particular	2015 JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Lean concrete																	-	-	100%	
2	Pump House Base Slab																	487	487	100%	
3	Pit Base slab and Mat Beam																	47	47	100%	
4	Pump House & Pit wall (8')																	229	229	100%	
5	Tie Beam Level & Pump House wall																	118	118	100%	
6	Intake Gate Base slab																	148	148	100%	
7	Pump House wall next level																	185	185	100%	
8	Intake Gate wall (0 to 8.48)																	142	142	100%	
9	Intake Gate wall and top slab																	150	150	100%	
10	Pump House top slab																	137	137	100%	
8	Mechanical & Electrical Work																	1set	-	0%	

Intake Pumping Station

No	Particular	2015 JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Bored Pile (45 No)																	689	689	100%	
2	Base Slab Concrete																	304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																	147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																	147	147	100%	
5	Floor Beam & Slab (RL 6.2m)																	81	-	0%	
6	Column																	110	8	7%	
7	Window Sea Beam (RL 6.2m)																	10	-	0%	
8	Lintel Beam (RL 7.95)																	6.6	-	0%	
9	Tie Beam (RL 9.45)																	28.2	-	0%	
10	Roof Beam & Slab (RL 11.5)																	110	-	0%	
11	Brick work																	63	-	0%	
12	Plastering																	33	-	0%	
13	Window & Door																	18 Nos	-	0%	
14	Mechanical & Electrical Work																	1set	-	0%	

Raw Water Pipe Line

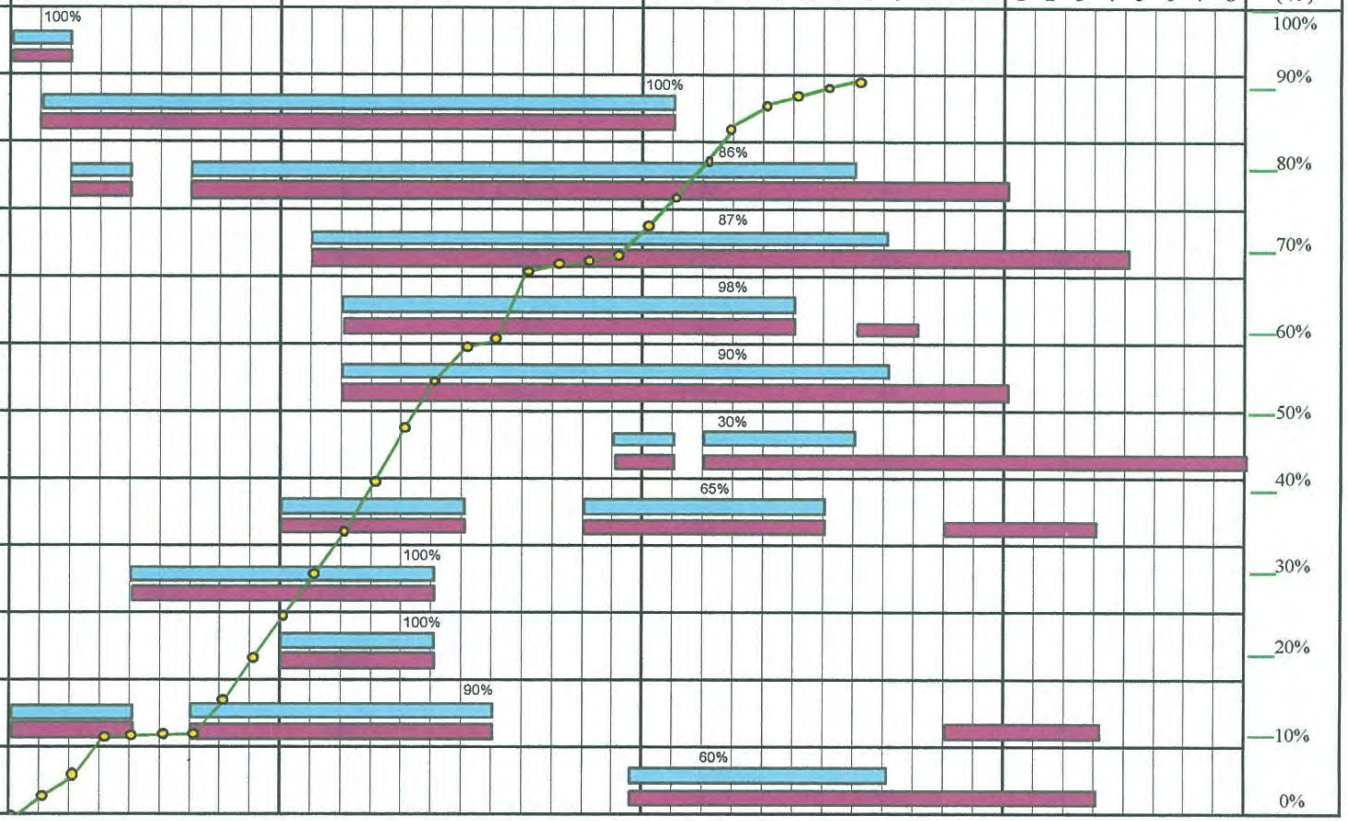
No	Particular	2015 JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
																		Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)																	420	146	35%	
2	No (2) pip line (Line of inner side)																	420	149	35%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 91.45%)

1-9-2015

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Treated Water Reservoir	1 unit	(46 x 35)m
3	Rapid Sand Filter	2 units	(48 x 40)m
4	Sedimentation Basin	4 units	(52 x 27)m
5	Dividing Well	1 unit	h = 14 m d = 15 m
6	Lift Pump House	1 unit	(39 x 29)m
7	Mechanical Works (Pumps, Valves, Pipes,…)	1 unit	
8	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Road	1 unit	
12	Raw Water Pipe Line & Pumping Station	1 unit	



添付資料6-32

Planned Actual

Clear Water Reservoir

No	Particular	2015 JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																					1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)																					1239	1239	100%	
3	Roof Beam-Slab																					815	667	82%	
4	Mechanical and Electrical work																					1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2015 JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																					1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																					1858	1858	100%	
3	Filter Precast Slab																					155	115.2	74%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																					718	718	100%	
5	Brick Work & Plastering																					102	102	100%	
6	Mechanical and Electrical work																					1set	-	0%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2015 JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																					1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																					1858	1858	100%	
3	Filter Precast Slab																					155	81	52%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																					718	718	100%	
5	Brick Work & Plastering																					102	102	100%	
6	Mechanical and Electrical work																					1set	-	0%	

Sedimentation Basin (1)

No	Particular	2015 JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																					1027.22	1027.22	100%	
3	Roof slab																					216	80	37%	
4	Mechanicl and Electrrical work																					1set	-	0%	

Sedimentation Basin (2)

No	Particular	2015 JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																					1027.22	1027.22	100%	
3	Roof slab																					216	80	37%	
4	Mechanicl and Electrrical work																					1set	-	0%	

Sedimentation Basin (3)

No	Particular	2015 JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																					1027.22	1027.22	100%	
3	Roof slab																					216	54	25%	
4	Mechanicl and Electrrical work																					1set	-	0%	

Sedimentation Basin (4)

No	Particular	2015 JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																					1027.22	917	89%	
3	Roof slab																					216	54	25%	
4	Mechanicl and Electrrical work																					1set	-	0%	

Dividing well

No	Particular	2015 JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Base Slab Concreting																					150	150	100%	
2	Tie Beam Level (1)																					60	60	100%	
3	Tie Beam Level (2)																					50	50	100%	
4	Floor slab level																					74	74	100%	
5	Tie Beam Level (3)																					97	97	100%	
6	Tie Beam Level (4)																					97	97	100%	
7	Top Floor Level																					93	93	100%	
8	Mechanical & Electrical Work																					lset	-	0%	

Lift Pumping Station

No	Particular	2015 JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Lean concrete																					-	-	100%	
2	Pump House Base Slab																					487	487	100%	
3	Pit Base slab and Mat Beam																					47	47	100%	
4	Pump House & Pit wall (8')																					229	229	100%	
5	Tie Beam Level & Pump House wall																					118	118	100%	
6	Intake Gate Base slab																					148	148	100%	
7	Pump House wall next level																					185	185	100%	
8	Intake Gate wall (0 to 8.48)																					142	142	100%	
9	Intake Gate wall and top slab																					150	150	100%	
10	Pump House top slab																					137	137	100%	
8	Mechanical & Electrical Work																					lset	-	0%	

Intake Pumping Station

No	Particular	2015 JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Bored Pile (45 No)																					689	689	100%	
2	Base Slab Concrete																					304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																					147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																					147	147	100%	
5	Floor Beam & Slab (RL 6.2m)																					81	81	100%	
6	Column																					110	8	7%	
7	Window Sea Beam (RL 6.2m)																					10	-	0%	
8	Lintel Beam (RL 7.95)																					6.6	-	0%	
9	Tie Beam (RL 9.45)																					28.2	-	0%	
10	Roof Beam & Slab (RL 11.5)																					110	-	0%	
11	Brick work																					63	-	0%	
12	Plastering																					33	-	0%	
13	Window & Door																					18 Nos	-	0%	
14	Mechanical & Electrical Work																					lset	-	0%	

Raw Water Pipe Line

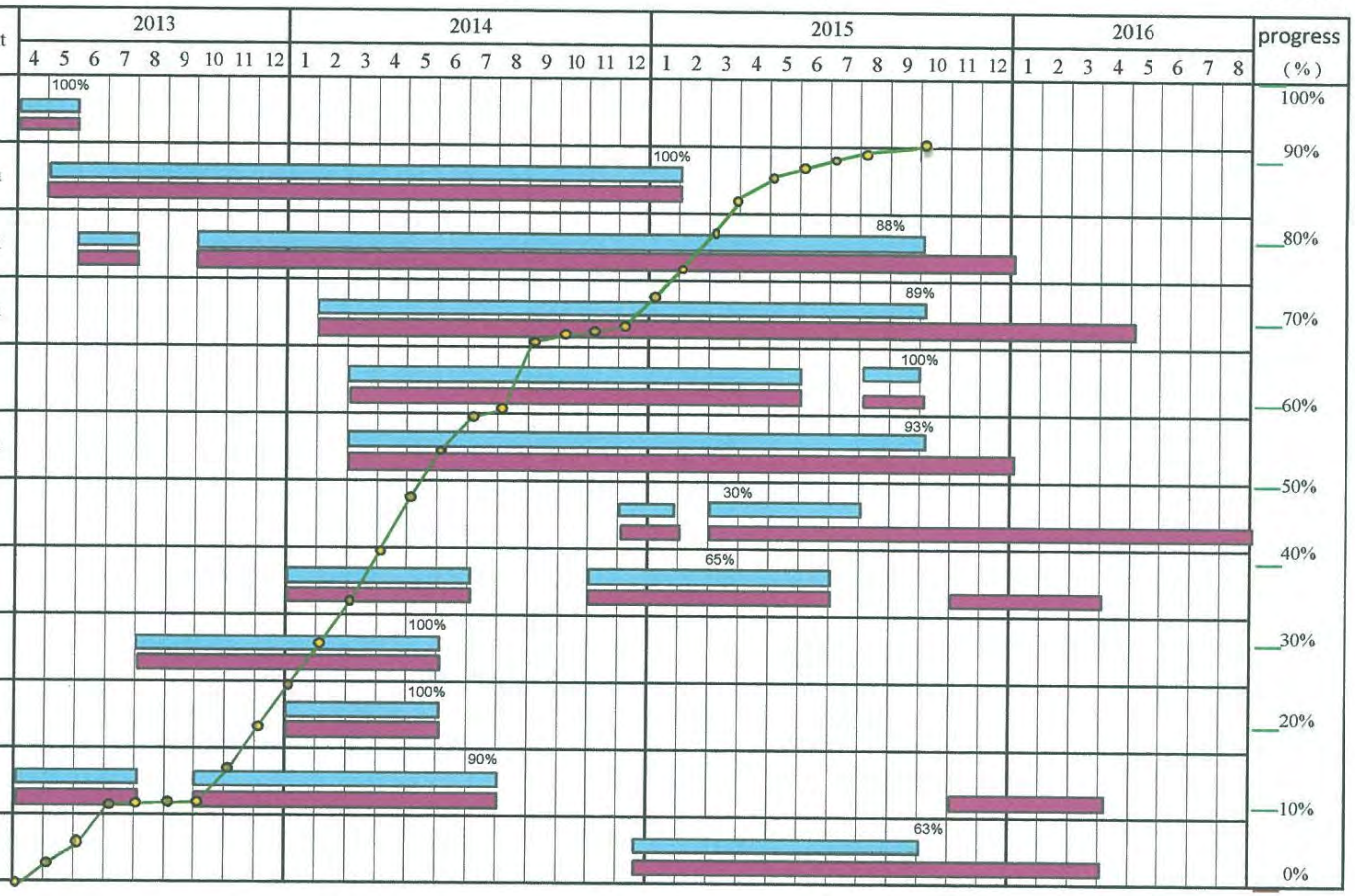
No	Particular	2015 JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount	Finishing		Remark
																						Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)																					420	146	35%	
2	No (2) pip line (Line of inner side)																					420	149	35%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 92%)

1-10-2015

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Treated Water Reservoir	1 unit	(46 x 35)m
3	Rapid Sand Filter	2 units	(48 x 40)m
4	Sedimentation Basin	4 units	(52 x 27)m
5	Dividing Well	1 unit	h = 14 m d = 15 m
6	Lift Pump House	1 unit	(39 x 29)m
7	Mechanical Works (Pumps, Valves, Pipes,…)	1 unit	
8	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Road	1 unit	
12	Raw Water Pipe Line & Pumping Station	1 unit	



Planned Actual

Clear Water Reservoir

No	Particular	2015 AUG 1 2 3 4	SEP 1 2 3 4	OCT 1 2 3 4	NOV 1 2 3 4	DEC 1 2 3 4	Amount	Finishing		Remark
							M^3	Amount	Percent	
1	Base Slab Concreting						1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)						1239	1239	100%	
3	Roof Beam-Slab						815	815	100%	
4	Mechanical and Electrical work						1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2015 AUG 1 2 3 4	SEP 1 2 3 4	OCT 1 2 3 4	NOV 1 2 3 4	DEC 1 2 3 4	Amount	Finishing		Remark
							M^3	Amount	Percent	
1	Base Slab Concreting						1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)						1858	1858	100%	
3	Filter Precast Slab						155	115.2	74%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)						718	718	100%	
5	Brick Work & Plastering						102	102	100%	
6	Mechanical and Electrical work						1set	-	0%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2015 AUG 1 2 3 4	SEP 1 2 3 4	OCT 1 2 3 4	NOV 1 2 3 4	DEC 1 2 3 4	Amount	Finishing		Remark
							M^3	Amount	Percent	
1	Base Slab Concreting						1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)						1858	1858	100%	
3	Filter Precast Slab						155	112.32	72%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)						718	718	100%	
5	Brick Work & Plastering						102	102	100%	
6	Mechanical and Electrical work						1set	-	0%	

Sedimentation Basin (1)

No	Particular	2015 AUG 1 2 3 4	SEP 1 2 3 4	OCT 1 2 3 4	NOV 1 2 3 4	DEC 1 2 3 4	Amount	Finishing		Remark
							M^3	Amount	Percent	
1	Base Slab Concreting						1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)						1027.22	1027.22	100%	
3	Roof slab						216	216	100%	
4	Mechanicl and Electrrical work						1set	-	0%	

Sedimentation Basin (2)

No	Particular	2015 AUG 1 2 3 4	SEP 1 2 3 4	OCT 1 2 3 4	NOV 1 2 3 4	DEC 1 2 3 4	Amount	Finishing		Remark
							M^3	Amount	Percent	
1	Base Slab Concreting						1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)						1027.22	1027.22	100%	
3	Roof slab						216	216	100%	
4	Mechanicl and Electrrical work						1set	-	0%	

Sedimentation Basin (3)

No	Particular	2015 AUG 1 2 3 4	SEP 1 2 3 4	OCT 1 2 3 4	NOV 1 2 3 4	DEC 1 2 3 4	Amount	Finishing		Remark
							M^3	Amount	Percent	
1	Base Slab Concreting						1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)						1027.22	1027.22	100%	
3	Roof slab						216	216	100%	
4	Mechanicl and Electrrical work						1set	-	0%	

Sedimentation Basin (4)

No	Particular	2015 AUG 1 2 3 4	SEP 1 2 3 4	OCT 1 2 3 4	NOV 1 2 3 4	DEC 1 2 3 4	Amount	Finishing		Remark
							M^3	Amount	Percent	
1	Base Slab Concreting						1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)						1027.22	1027.22	100%	
3	Roof slab						216	216	100%	
4	Mechanicl and Electrrical work						1set	-	0%	

Dividing well

No	Particular	2015 AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																					150	150	100%	
2	Tie Beam Level (1)																					60	60	100%	
3	Tie Beam Level (2)																					50	50	100%	
4	Floor slab level																					74	74	100%	
5	Tie Beam Level (3)																					97	97	100%	
6	Tie Beam Level (4)																					97	97	100%	
7	Top Floor Level																					93	93	100%	
8	Mechanical & Electrical Work																					1set	-	0%	

Lift Pumping Station

No	Particular	2015 AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Lean concrete																					-	-	100%	
2	Pump House Base Slab																					487	487	100%	
3	Pit Base slab and Mat Beam																					47	47	100%	
4	Pump House & Pit wall (8')																					229	229	100%	
5	Tie Beam Level & Pump House wall																					118	118	100%	
6	Intake Gate Base slab																					148	148	100%	
7	Pump House wall next level																					185	185	100%	
8	Intake Gate wall (0 to 8.48)																					142	142	100%	
9	Intake Gate wall and top slab																					150	150	100%	
10	Pump House top slab																					137	137	100%	
8	Mechanical & Electrical Work																					1set	-	0%	

Intake Pumping Station

No	Particular	2015 AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Bored Pile (45 No)																					689	689	100%	
2	Base Slab Concrete																					304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																					147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																					147	147	100%	
5	Floor Beam & Slab (RL 6.2m)																					81	81	100%	
6	Column																					110	10.8	10%	
7	Window Sea Beam (RL 6.2m)																					10	-	0%	
8	Lintel Beam (RL 7.95)																					6.6	-	0%	
9	Tie Beam (RL 9.45)																					28.2	-	0%	
10	Roof Beam & Slab (RL 11.5)																					110	-	0%	
11	Brick work																					63	-	0%	
12	Plastering																					33	-	0%	
13	Window & Door																					18 Nos	-	0%	
14	Mechanical & Electrical Work																					1set	-	0%	

Raw Water Pipe Line

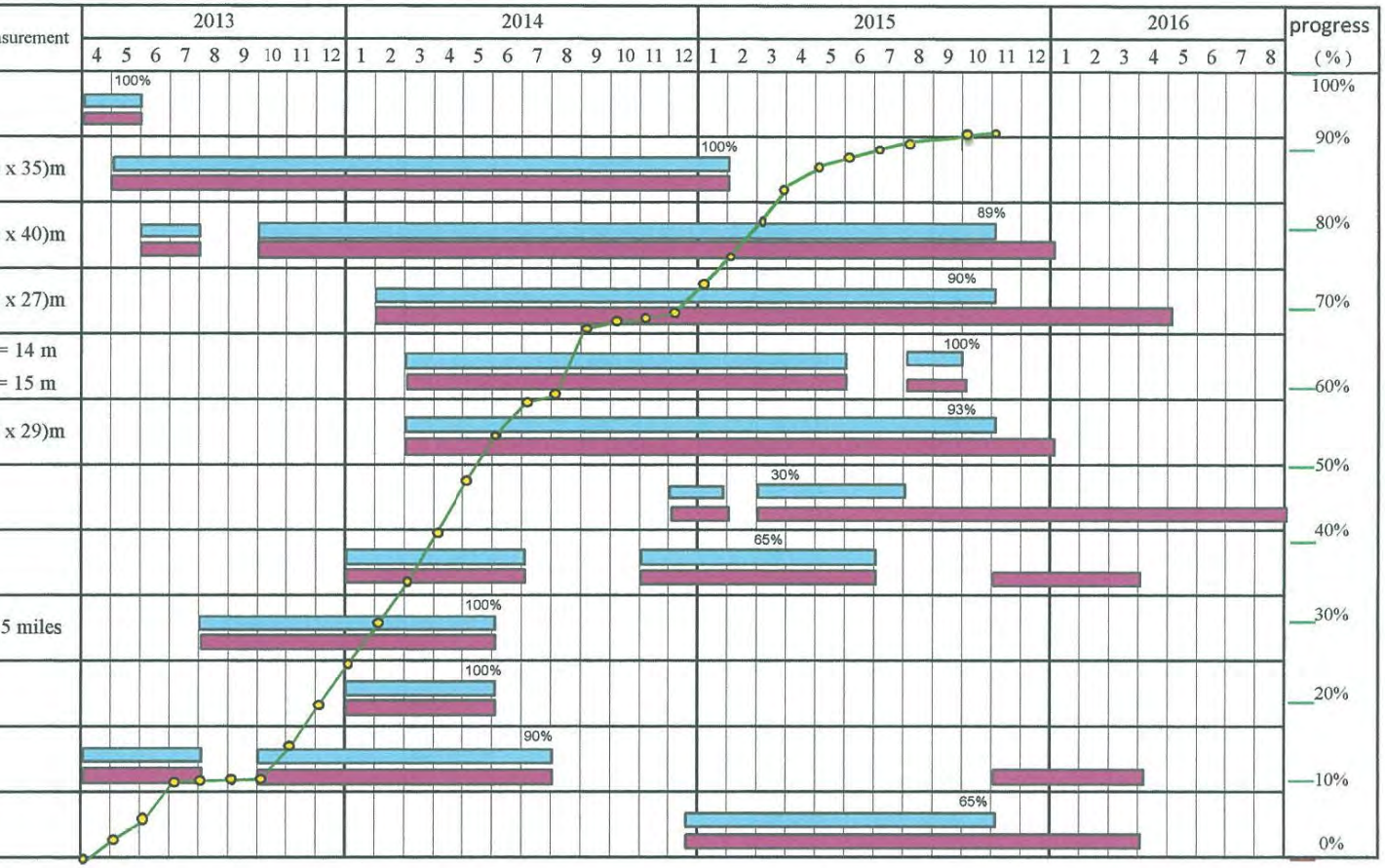
No	Particular	2015 AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	Amount Nos	Finishing Amount	Finishing Percent	Remark
1	No (1) pipe line (Line of road side)																					420	146	35%	stop
2	No (2) pip line (Line of inner side)																					420	149	35%	stop

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 92%)

1-11-2015

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Treated Water Reservoir	1 unit	(46 x 35)m
3	Rapid Sand Filter	2 units	(48 x 40)m
4	Sedimentation Basin	4 units	(52 x 27)m
5	Dividing Well	1 unit	h = 14 m d = 15 m
6	Lift Pump House	1 unit	(39 x 29)m
7	Mechanical Works (Pumps, Valves, Pipes,…)	1 unit	
8	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Road	1 unit	
12	Raw Water Pipe Line & Pumping Station	1 unit	



添付資料6-38

Planned Actual

Clear Water Reservoir

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)																	1239	1239	100%	
3	Roof Beam-Slab																	815	667	82%	
4	Mechanical and Electrical work																	1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																	1858	1858	100%	
3	Filter Precast Slab																	155	115.2	74%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																	718	718	100%	
5	Brick Work & Plastering																	102	102	100%	
6	Mechanical and Electrical work																	1set	-	0%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																	1858	1858	100%	
3	Filter Precast Slab																	155	133.92	86%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																	718	718	100%	
5	Brick Work & Plastering																	102	102	100%	
6	Mechanical and Electrical work																	1set	-	0%	

Sedimentation Basin (1)

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	0%	

Sedimentation Basin (2)

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	0%	

Sedimentation Basin (3)

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	0%	

Sedimentation Basin (4)

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	0%	

Dividing well

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	150	150	100%	
2	Tie Beam Level (1)																	60	60	100%	
3	Tie Beam Level (2)																	50	50	100%	
4	Floor slab level																	74	74	100%	
5	Tie Beam Level (3)																	97	97	100%	
6	Tie Beam Level (4)																	97	97	100%	
7	Top Floor Level																	93	93	100%	
8	Mechanical & Electrical Work																	1set	-	0%	

Lift Pumping Station

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Lean concrete																	-	-	100%	
2	Pump House Base Slab																	487	487	100%	
3	Pit Base slab and Mat Beam																	47	47	100%	
4	Pump House & Pit wall (8')																	229	229	100%	
5	Tie Beam Level & Pump House wall																	118	118	100%	
6	Intake Gate Base slab																	148	148	100%	
7	Pump House wall next level																	185	185	100%	
8	Intake Gate wall (0 to 8.48)																	142	142	100%	
9	Intake Gate wall and top slab																	150	150	100%	
10	Pump House top slab																	137	137	100%	
8	Mechanical & Electrical Work																	1set	-	0%	

Intake Pumping Station

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Bored Pile (45 No)																	689	689	100%	
2	Base Slab Concrete																	304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																	147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																	147	147	100%	
5	Floor Beam & Slab (RL 6.2m)																	81	81	100%	
6	Column																	110	73	80%	
7	Window Sea Beam (RL 6.2m)																	10	8	80%	
8	Lintel Beam (RL 7.95)																	6.6	-	0%	
9	Tie Beam (RL 9.45)																	28.2	28.2	100%	
10	Roof Beam & Slab (RL 11.5)																	110	-	0%	
11	Brick work																	63	50.4	80%	
12	Plastering																	33	-	0%	
13	Window & Door																	18 Nos	-	0%	
14	Mechanical & Electrical Work																	1set	-	0%	

Raw Water Pipe Line

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount Nos	Finishing Amount	Finishing Percent	Remark
1	No (1) pipe line (Line of road side)																	420	182	43%	
2	No (2) pip line (Line of inner side)																	420	185	44%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 93%)

Sr N	Items	Number	Measurement	2013 (4 5 6 7 8 9 10 11 12)	2014 (1 2 3 4 5 6 7 8 9 10 11 12)	2015 (1 2 3 4 5 6 7 8 9 10 11 12)	2016 (1 2 3 4 5 6 7 8 9 10 11 12)	progress (%)
1	Pre-engineering Work	1 unit		100%				100%
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit				65%		90%
3	Lift Pump House	1 unit	(39 x 29)m			93%		80%
4	Dividing Well	1 unit	h = 14 m d = 15 m			100%		70%
5	Sedimentation Basin	4 units	(52 x 27)m			93%		60%
6	Rapid Sand Filter	2 units	(48 x 40)m			95%		50%
7	Treated Water Reservoir	1 unit	(46 x 35)m			100%		40%
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit				40%		30%
9	33 KV High Tension Line connection work	-	11.5 miles		100%			20%
10	33 KV Sub-station Construction & Accessory - works	1 unit			100%			10%
11	Raw Water Pipe Line & Pumping Station	1 unit				75%		0%
12	Road	1 unit			90%			

Planned Actual

Clear Water Reservoir

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)																	1239	1239	100%	
3	Roof Beam-Slab																	815	815	100%	
4	Mechanical and Electrical work																	1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																	1858	1858	100%	
3	Filter Precast Slab																	155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																	718	718	100%	
5	Brick Work & Plastering																	102	102	100%	
6	Mechanical and Electrical work																	1set	-	0%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																	1858	1858	100%	
3	Filter Precast Slab																	155	133.92	86%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																	718	718	100%	
5	Brick Work & Plastering																	102	102	100%	
6	Mechanical and Electrical work																	1set	-	0%	

Sedimentation Basin (1)

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	0%	

Sedimentation Basin (2)

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	0%	

Sedimentation Basin (3)

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	0%	

Sedimentation Basin (4)

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	0%	

Dividing well

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	150	150	100%	
2	Tie Beam Level (1)																	60	60	100%	
3	Tie Beam Level (2)																	50	50	100%	
4	Floor slab level																	74	74	100%	
5	Tie Beam Level (3)																	97	97	100%	
6	Tie Beam Level (4)																	97	97	100%	
7	Top Floor Level																	93	93	100%	
8	Mechanical & Electrical Work																	1set	-	0%	

Lift Pumping Station

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Lean concrete																	-	-	100%	
2	Pump House Base Slab																	487	487	100%	
3	Pit Base slab and Mat Beam																	47	47	100%	
4	Pump House & Pit wall (8')																	229	229	100%	
5	Tie Beam Level & Pump House wall																	118	118	100%	
6	Intake Gate Base slab																	148	148	100%	
7	Pump House wall next level																	185	185	100%	
8	Intake Gate wall (0 to 8.48)																	142	142	100%	
9	Intake Gate wall and top slab																	150	150	100%	
10	Pump House top slab																	137	137	100%	
8	Mechanical & Electrical Work																	1set	-	0%	

Intake Pumping Station

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Bored Pile (45 No)																	689	689	100%	
2	Base Slab Concrete																	304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																	147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																	147	147	100%	
5	Floor Beam & Slab (RL 6.2m)																	81	81	100%	
6	Column																	110	110	100%	
7	Window Sea Beam (RL 6.2m)																	10	8	80%	
8	Lintel Beam (RL 7.95)																	6.6	0.66	10%	
9	Tie Beam (RL 9.45)																	28.2	28.2	100%	
10	Roof Beam & Slab (RL 11.5)																	110	66	60%	
11	Brick work																	63	56.7	90%	
12	Plastering																	33	-	0%	
13	Window & Door																	18 Nos	-	0%	
14	Mechanical & Electrical Work																	1set	-	0%	

Raw Water Pipe Line

No	Particular	2015 OCT 1	2	3	4	NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	Amount	Finishing		Remark
																		Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)																	420	207	49%	
2	No (2) pip line (Line of inner side)																	420	213	51%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 93%)

1-1-2016

Sr N	Items	Number	Measurement	2013 (4 5 6 7 8 9 10 11 12)	2014 (1 2 3 4 5 6 7 8 9 10 11 12)	2015 (1 2 3 4 5 6 7 8 9 10 11 12)	2016 (1 2 3 4 5 6 7 8 9 10 11 12)	progress (%)
1	Pre-engineering Work	1 unit		100%				
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit					65%	
3	Lift Pump House	1 unit	(39 x 29)m			95%		
4	Dividing Well	1 unit	h = 14 m d = 15 m			100%		
5	Sedimentation Basin	4 units	(52 x 27)m			95%		
6	Rapid Sand Filter	2 units	(48 x 40)m			95%		
7	Treated Water Reservoir	1 unit	(46 x 35)m			100%		
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit				40%		
9	33 KV High Tension Line connection work	-	11.5 miles		100%			
10	33 KV Sub-station Construction & Accessory - works	1 unit			100%			
11	Raw Water Pipe Line & Pumping Station	1 unit				75%		
12	Road	1 unit			90%			

progress (%): 100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0%

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Planned Actual

Clear Water Reservoir

No	Particular	2015 NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Base Slab Concreting																					1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)																					1239	1239	100%	
3	Roof Beam-Slab																					815	815	100%	
4	Mechanical and Electrical work																					1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2015 NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Base Slab Concreting																					1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																					1858	1858	100%	
3	Filter Precast Slab																					155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																					718	718	100%	
5	Brick Work & Plastering																					102	102	100%	
6	Mechanical and Electrical work																					1set	-	0%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2015 NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Base Slab Concreting																					1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																					1858	1858	100%	
3	Filter Precast Slab																					155	151.2	98%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																					718	718	100%	
5	Brick Work & Plastering																					102	102	100%	
6	Mechanical and Electrical work																					1set	-	0%	

Sedimentation Basin (1)

No	Particular	2015 NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Base Slab Concreting																					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																					1027.22	1027.22	100%	
3	Roof slab																					216	216	100%	
4	Mechanicl and Electrrical work																					1set	-	0%	

Sedimentation Basin (2)

No	Particular	2015 NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Base Slab Concreting																					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																					1027.22	1027.22	100%	
3	Roof slab																					216	216	100%	
4	Mechanicl and Electrrical work																					1set	-	0%	

Sedimentation Basin (3)

No	Particular	2015 NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Base Slab Concreting																					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																					1027.22	1027.22	100%	
3	Roof slab																					216	216	100%	
4	Mechanicl and Electrrical work																					1set	-	0%	

Sedimentation Basin (4)

No	Particular	2015 NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Base Slab Concreting																					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																					1027.22	1027.22	100%	
3	Roof slab																					216	216	100%	
4	Mechanicl and Electrrical work																					1set	-	0%	

Dividing well

No	Particular	2015 NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Base Slab Concreting																					150	150	100%	
2	Tie Beam Level (1)																					60	60	100%	
3	Tie Beam Level (2)																					50	50	100%	
4	Floor slab level																					74	74	100%	
5	Tie Beam Level (3)																					97	97	100%	
6	Tie Beam Level (4)																					97	97	100%	
7	Top Floor Level																					93	93	100%	
8	Mechanical & Electrical Work																					1set	-	0%	

Lift Pumping Station

No	Particular	2015 NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Lean concrete																					-	-	100%	
2	Pump House Base Slab																					487	487	100%	
3	Pit Base slab and Mat Beam																					47	47	100%	
4	Pump House & Pit wall (8')																					229	229	100%	
5	Tie Beam Level & Pump House wall																					118	118	100%	
6	Intake Gate Base slab																					148	148	100%	
7	Pump House wall next level																					185	185	100%	
8	Intake Gate wall (0 to 8.48)																					142	142	100%	
9	Intake Gate wall and top slab																					150	150	100%	
10	Pump House top slab																					137	137	100%	
8	Mechanical & Electrical Work																					1set	-	0%	

Intake Pumping Station

No	Particular	2015 NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Bored Pile (45 No)																					689	689	100%	
2	Base Slab Concrete																					304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																					147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																					147	147	100%	
5	Floor Beam & Slab (RL 6.2m)																					81	81	100%	
6	Column																					110	110	100%	
7	Window Sea Beam (RL 6.2m)																					10	10	100%	
8	Lintel Beam (RL 7.95)																					6.6	1.98	30%	
9	Tie Beam (RL 9.45)																					28.2	28.2	100%	
10	Roof Beam & Slab (RL 11.5)																					110	110	100%	
11	Brick work																					63	63	100%	
12	Plastering																					33	-	0%	
13	Window & Door																					18 Nos	-	0%	
14	Mechanical & Electrical Work																					1set	-	0%	

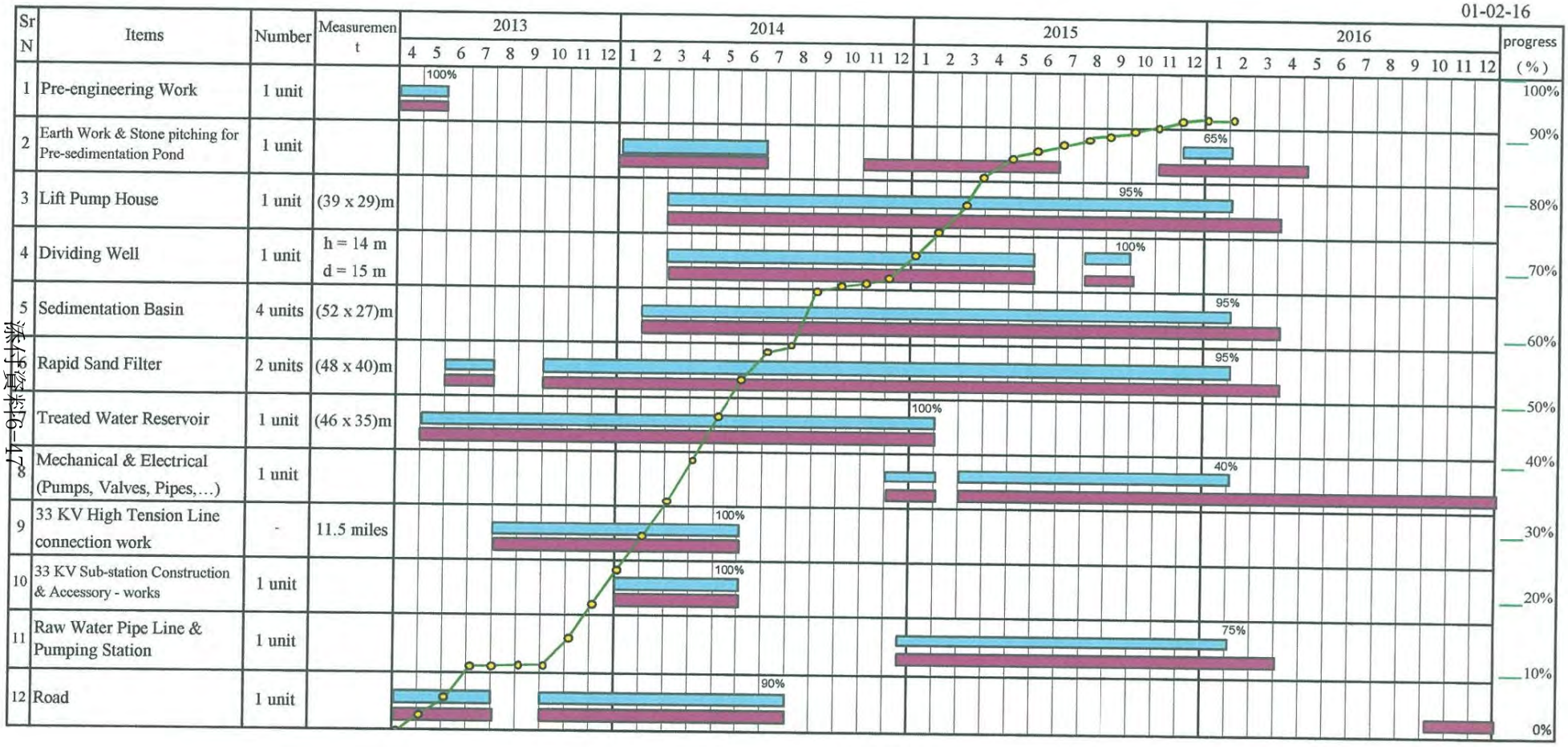
Raw Water Pipe Line

No	Particular	2015 NOV 1	2	3	4	DEC 1	2	3	4	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	Amount	Finishing		Remark
																						Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)																					420	338	80%	
2	No (2) pip line (Line of inner side)																					420	327	78%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 93%)

01-02-16



Planned Actual

Clear Water Reservoir

No	Particular	2015 DEC	2016 JAN	2016 FEB	2016 MAR	2016 APR	Amount	Finishing		Remark
		1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting						1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)						1239	1239	100%	
3	Roof Beam-Slab						815	815	100%	
4	Mechanical and Electrical work						1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2015 DEC	2016 JAN	2016 FEB	2016 MAR	2016 APR	Amount	Finishing		Remark
		1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting						1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)						1858	1858	100%	
3	Filter Precast Slab						155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)						718	718	100%	
5	Brick Work & Plastering						102	102	100%	
6	Mechanical and Electrical work						1set	-	0%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2015 DEC	2016 JAN	2016 FEB	2016 MAR	2016 APR	Amount	Finishing		Remark
		1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting						1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)						1858	1858	100%	
3	Filter Precast Slab						155	151.2	98%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)						718	718	100%	
5	Brick Work & Plastering						102	102	100%	
6	Mechanical and Electrical work						1set	-	0%	

Sedimentation Basin (1)

No	Particular	2015 DEC	2016 JAN	2016 FEB	2016 MAR	2016 APR	Amount	Finishing		Remark
		1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting						1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)						1027.22	1027.22	100%	
3	Roof slab						216	216	100%	
4	Mechanicl and Electrrical work						1set	-	0%	

Sedimentation Basin (2)

No	Particular	2015 DEC	2016 JAN	2016 FEB	2016 MAR	2016 APR	Amount	Finishing		Remark
		1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting						1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)						1027.22	1027.22	100%	
3	Roof slab						216	216	100%	
4	Mechanicl and Electrrical work						1set	-	0%	

Sedimentation Basin (3)

No	Particular	2015 DEC	2016 JAN	2016 FEB	2016 MAR	2016 APR	Amount	Finishing		Remark
		1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting						1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)						1027.22	1027.22	100%	
3	Roof slab						216	216	100%	
4	Mechanicl and Electrrical work						1set	-	0%	

Sedimentation Basin (4)

No	Particular	2015 DEC	2016 JAN	2016 FEB	2016 MAR	2016 APR	Amount	Finishing		Remark
		1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting						1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)						1027.22	1027.22	100%	
3	Roof slab						216	216	100%	
4	Mechanicl and Electrrical work						1set	-	0%	

Dividing well

No	Particular	2015 DEC	2016 JAN	2016 FEB	2016 MAR	2016 APR	Amount	Finishing		Remark
		1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting						150	150	100%	
2	Tie Beam Level (1)						60	60	100%	
3	Tie Beam Level (2)						50	50	100%	
4	Floor slab level						74	74	100%	
5	Tie Beam Level (3)						97	97	100%	
6	Tie Beam Level (4)						97	97	100%	
7	Top Floor Level						93	93	100%	
8	Mechanical & Electrical Work						1set	-	0%	

Lift Pumping Station

No	Particular	2015 DEC	2016 JAN	2016 FEB	2016 MAR	2016 APR	Amount	Finishing		Remark
		1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Lean concrete						-	-	100%	
2	Pump House Base Slab						487	487	100%	
3	Pit Base slab and Mat Beam						47	47	100%	
4	Pump House & Pit wall (8')						229	229	100%	
5	Tie Beam Level & Pump House wall						118	118	100%	
6	Intake Gate Base slab						148	148	100%	
7	Pump House wall next level						185	185	100%	
8	Intake Gate wall (0 to 8.48)						142	142	100%	
9	Intake Gate wall and top slab						150	150	100%	
10	Pump House top slab						137	137	100%	
8	Mechanical & Electrical Work						1set	-	0%	

Intake Pumping Station

No	Particular	2015 DEC	2016 JAN	2016 FEB	2016 MAR	2016 APR	Amount	Finishing		Remark
		1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Bored Pile (45 No)						689	689	100%	
2	Base Slab Concrete						304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)						147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)						147	147	100%	
5	Floor Beam & Slab (RL 6.2m)						81	81	100%	
6	Column						110	110	100%	
7	Window Sea Beam (RL 6.2m)						10	10	100%	
8	Lintel Beam (RL 7.95)						6.6	4.29	65%	
9	Tie Beam (RL 9.45)						28.2	28.2	100%	
10	Roof Beam & Slab (RL 11.5)						110	110	100%	
11	Brick work						63	63	100%	
12	Plastering						33	-	0%	
13	Window & Door						18 Nos	-	0%	
14	Mechanical & Electrical Work						1set	-	0%	

Raw Water Pipe Line

No	Particular	2015 DEC	2016 JAN	2016 FEB	2016 MAR	2016 APR	Amount	Finishing		Remark
		1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)						420	357	85%	
2	No (2) pip line (Line of inner side)						420	348	83%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 95%)

01-03-16

Sr N	Items	Number	Measurement	2013 (4 5 6 7 8 9 10 11 12)	2014 (1 2 3 4 5 6 7 8 9 10 11 12)	2015 (1 2 3 4 5 6 7 8 9 10 11 12)	2016 (1 2 3 4 5 6 7 8 9 10 11 12)	progress (%)
1	Pre-engineering Work	1 unit		100%				
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit					70%	
3	Lift Pump House	1 unit	(39 x 29)m			95%		
4	Dividing Well	1 unit	h = 14 m d = 15 m			100%		
5	Sedimentation Basin	4 units	(52 x 27)m				95%	
6	Rapid Sand Filter	2 units	(48 x 40)m				95%	
7	Treated Water Reservoir	1 unit	(46 x 35)m		100%			
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit					45%	
9	33 KV High Tension Line connection work	-	11.5 miles		100%			
10	33 KV Sub-station Construction & Accessory - works	1 unit			100%			
11	Raw Water Pipe Line & Pumping Station	1 unit					80%	
12	Road	1 unit			90%			

progress (%): 100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0%

添付資料6-50

Planned Actual

Clear Water Reservoir

No	Particular	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																					1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)																					1239	1239	100%	
3	Roof Beam-Slab																					815	815	100%	
4	Mechanical and Electrical work																					1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																					1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																					1858	1858	100%	
3	Filter Precast Slab																					155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																					718	718	100%	
5	Brick Work & Plastering																					102	102	100%	
6	Mechanical and Electrical work																					1set	-	50%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																					1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																					1858	1858	100%	
3	Filter Precast Slab																					155	151.2	98%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																					718	718	100%	
5	Brick Work & Plastering																					102	102	100%	
6	Mechanical and Electrical work																					1set	-	50%	

Sedimentation Basin (1)

No	Particular	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																					1027.22	1027.22	100%	
3	Roof slab																					216	216	100%	
4	Mechanicl and Electrrical work																					1set	-	70%	

Sedimentation Basin (2)

No	Particular	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																					1027.22	1027.22	100%	
3	Roof slab																					216	216	100%	
4	Mechanicl and Electrrical work																					1set	-	30%	

Sedimentation Basin (3)

No	Particular	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																					1027.22	1027.22	100%	
3	Roof slab																					216	216	100%	
4	Mechanicl and Electrrical work																					1set	-	0%	

Sedimentation Basin (4)

No	Particular	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																					1027.22	1027.22	100%	
3	Roof slab																					216	216	100%	
4	Mechanicl and Electrrical work																					1set	-	0%	

Dividing well

No	Particular	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Base Slab Concreting																					150	150	100%	
2	Tie Beam Level (1)																					60	60	100%	
3	Tie Beam Level (2)																					50	50	100%	
4	Floor slab level																					74	74	100%	
5	Tie Beam Level (3)																					97	97	100%	
6	Tie Beam Level (4)																					97	97	100%	
7	Top Floor Level																					93	93	100%	
8	Mechanical & Electrical Work																					1set	-	80%	

Lift Pumping Station

No	Particular	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Lean concrete																					-	-	100%	
2	Pump House Base Slab																					487	487	100%	
3	Pit Base slab and Mat Beam																					47	47	100%	
4	Pump House & Pit wall (8')																					229	229	100%	
5	Tie Beam Level & Pump House wall																					118	118	100%	
6	Intake Gate Base slab																					148	148	100%	
7	Pump House wall next level																					185	185	100%	
8	Intake Gate wall (0 to 8.48)																					142	142	100%	
9	Intake Gate wall and top slab																					150	150	100%	
10	Pump House top slab																					137	137	100%	
8	Mechanical & Electrical Work																					1set	-	5%	

Intake Pumping Station

No	Particular	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Bored Pile (45 No)																					689	689	100%	
2	Base Slab Concrete																					304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																					147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																					147	147	100%	
5	Floor Beam & Slab (RL 6.2m)																					81	81	100%	
6	Column																					110	110	100%	
7	Window Sea Beam (RL 6.2m)																					10	10	100%	
8	Lintel Beam (RL 7.95)																					6.6	6.6	100%	
9	Tie Beam (RL 9.45)																					28.2	28.2	100%	
10	Roof Beam & Slab (RL 11.5)																					110	110	100%	
11	Brick work																					63	63	100%	
12	Plastering																					33	20	60%	
13	Window & Door																					18 Nos	9	50%	
14	Mechanical & Electrical Work																					1set	-	0%	

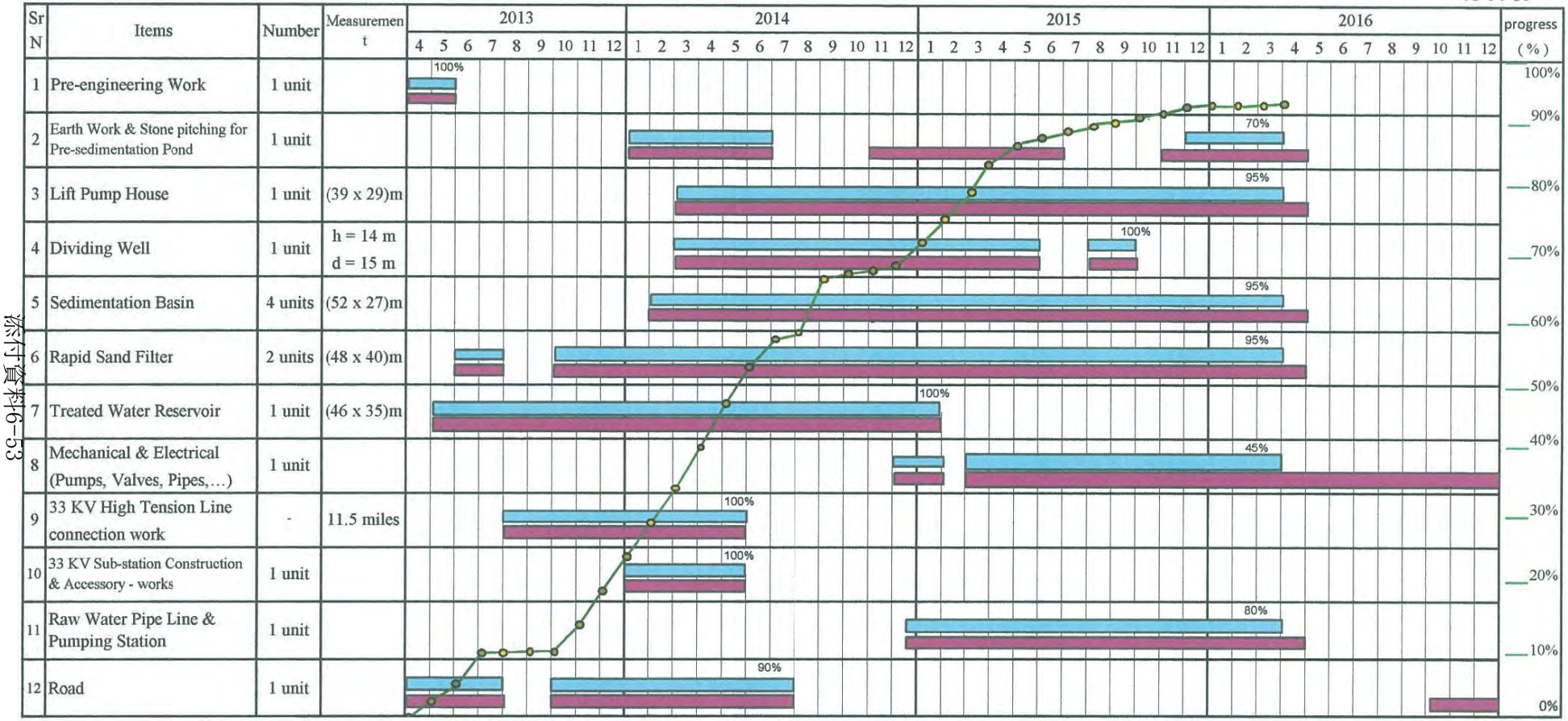
Raw Water Pipe Line

No	Particular	2016 JAN 1	2	3	4	FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	Amount	Finishing		Remark
																						Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)																					420	378	90%	
2	No (2) pip line (Line of inner side)																					420	370	88%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 95%)

01-04-16



添付資料6-53

Planned Actual

Clear Water Reservoir

No	Particular	2016 FEB 1 2 3 4	MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	Amount	Finishing		Remark
							M^3	Amount	Percent	
1	Base Slab Concreting						1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)						1239	1239	100%	
3	Roof Beam-Slab						815	815	100%	
4	Mechanical and Electrical work						1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2016 FEB 1 2 3 4	MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	Amount	Finishing		Remark
							M^3	Amount	Percent	
1	Base Slab Concreting						1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)						1858	1858	100%	
3	Filter Precast Slab						155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)						718	718	100%	
5	Brick Work & Plastering						102	102	100%	
6	Mechanical and Electrical work						1set	-	70%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2016 FEB 1 2 3 4	MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	Amount	Finishing		Remark
							M^3	Amount	Percent	
1	Base Slab Concreting						1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)						1858	1858	100%	
3	Filter Precast Slab						155	151.2	98%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)						718	718	100%	
5	Brick Work & Plastering						102	102	100%	
6	Mechanical and Electrical work						1set	-	70%	

Sedimentation Basin (1)

No	Particular	2016 FEB 1 2 3 4	MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	Amount	Finishing		Remark
							M^3	Amount	Percent	
1	Base Slab Concreting						1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)						1027.22	1027.22	100%	
3	Roof slab						216	216	100%	
4	Mechanicl and Electrrical work						1set	-	85%	

Sedimentation Basin (2)

No	Particular	2016 FEB 1 2 3 4	MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	Amount	Finishing		Remark
							M^3	Amount	Percent	
1	Base Slab Concreting						1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)						1027.22	1027.22	100%	
3	Roof slab						216	216	100%	
4	Mechanicl and Electrrical work						1set	-	85%	

Sedimentation Basin (3)

No	Particular	2016 FEB 1 2 3 4	MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	Amount	Finishing		Remark
							M^3	Amount	Percent	
1	Base Slab Concreting						1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)						1027.22	1027.22	100%	
3	Roof slab						216	216	100%	
4	Mechanicl and Electrrical work						1set	-	50%	

Sedimentation Basin (4)

No	Particular	2016 FEB 1 2 3 4	MAR 1 2 3 4	APR 1 2 3 4	MAY 1 2 3 4	JUN 1 2 3 4	Amount	Finishing		Remark
							M^3	Amount	Percent	
1	Base Slab Concreting						1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)						1027.22	1027.22	100%	
3	Roof slab						216	216	100%	
4	Mechanicl and Electrrical work						1set	-	0%	

Dividing well

No	Particular	2016 FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Base Slab Concreting																					150	150	100%	
2	Tie Beam Level (1)																					60	60	100%	
3	Tie Beam Level (2)																					50	50	100%	
4	Floor slab level																					74	74	100%	
5	Tie Beam Level (3)																					97	97	100%	
6	Tie Beam Level (4)																					97	97	100%	
7	Top Floor Level																					93	93	100%	
8	Mechanical & Electrical Work																					1set	-	90%	

Lift Pumping Station

No	Particular	2016 FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Lean concrete																					-	-	100%	
2	Pump House Base Slab																					487	487	100%	
3	Pit Base slab and Mat Beam																					47	47	100%	
4	Pump House & Pit wall (8')																					229	229	100%	
5	Tie Beam Level & Pump House wall																					118	118	100%	
6	Intake Gate Base slab																					148	148	100%	
7	Pump House wall next level																					185	185	100%	
8	Intake Gate wall (0 to 8.48)																					142	142	100%	
9	Intake Gate wall and top slab																					150	150	100%	
10	Pump House top slab																					137	137	100%	
8	Mechanical & Electrical Work																					1set	-	40%	

Intake Pumping Station

No	Particular	2016 FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																						M^3	Amount	Percent	
1	Bored Pile (45 No)																					689	689	100%	
2	Base Slab Concrete																					304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																					147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																					147	147	100%	
5	Floor Beam & Slab (RL 6.2m)																					81	81	100%	
6	Column																					110	110	100%	
7	Window Sea Beam (RL 6.2m)																					10	10	100%	
8	Lintel Beam (RL 7.95)																					6.6	6.6	100%	
9	Tie Beam (RL 9.45)																					28.2	28.2	100%	
10	Roof Beam & Slab (RL 11.5)																					110	110	100%	
11	Brick work																					63	63	100%	
12	Plastering																					33	20	60%	
13	Window & Door																					18 Nos	9	50%	
14	Mechanical & Electrical Work																					1set	-	0%	

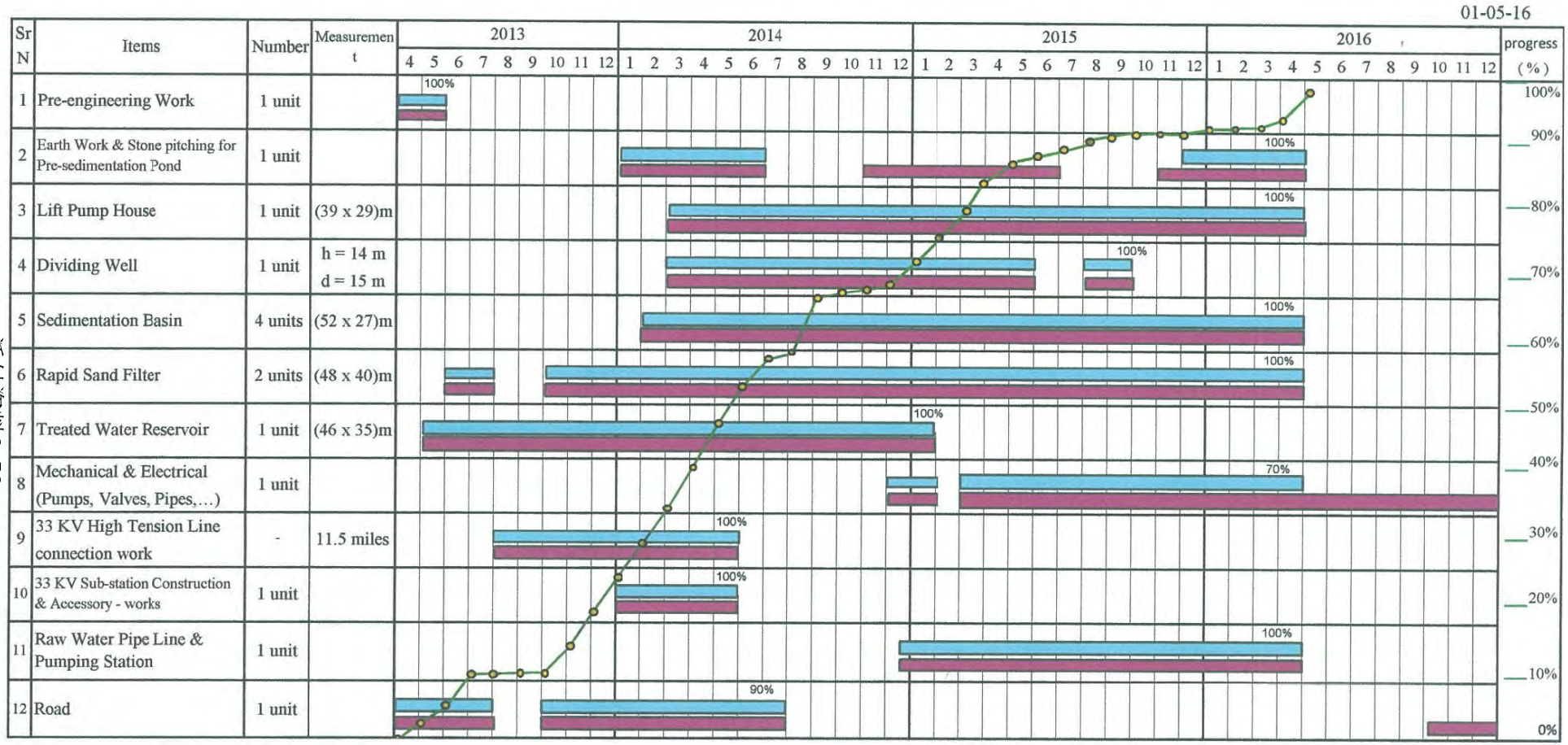
Raw Water Pipe Line

No	Particular	2016 FEB 1	2	3	4	MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																						Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)																					420	420	100%	
2	No (2) pip line (Line of inner side)																					420	420	100%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

01-05-16



添付資料6-56

E:\1.LGB (40)MGD(JICA)\LGB (Schedule).xlsx

Planned Actual

Clear Water Reservoir

No	Particular	2016 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)																	1239	1239	100%	
3	Roof Beam-Slab																	815	815	100%	
4	Mechanical and Electrical work																	1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2016 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																	1858	1858	100%	
3	Filter Precast Slab																	155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																	718	718	100%	
5	Brick Work & Plastering																	102	102	100%	
6	Mechanical and Electrical work																	1set	-	73%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2016 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																	1858	1858	100%	
3	Filter Precast Slab																	155	151.2	98%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																	718	718	100%	
5	Brick Work & Plastering																	102	102	100%	
6	Mechanical and Electrical work																	1set	-	73%	

Sedimentation Basin (1)

No	Particular	2016 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	95%	

Sedimentation Basin (2)

No	Particular	2016 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	95%	

Sedimentation Basin (3)

No	Particular	2016 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	90%	

Sedimentation Basin (4)

No	Particular	2016 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	73%	

Dividing well

No	Particular	2016 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	150	150	100%	
2	Tie Beam Level (1)																	60	60	100%	
3	Tie Beam Level (2)																	50	50	100%	
4	Floor slab level																	74	74	100%	
5	Tie Beam Level (3)																	97	97	100%	
6	Tie Beam Level (4)																	97	97	100%	
7	Top Floor Level																	93	93	100%	
8	Mechanical & Electrical Work																	1set	-	95%	

Lift Pumping Station

No	Particular	2016 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Lean concrete																	-	-	100%	
2	Pump House Base Slab																	487	487	100%	
3	Pit Base slab and Mat Beam																	47	47	100%	
4	Pump House & Pit wall (8')																	229	229	100%	
5	Tie Beam Level & Pump House wall																	118	118	100%	
6	Intake Gate Base slab																	148	148	100%	
7	Pump House wall next level																	185	185	100%	
8	Intake Gate wall (0 to 8.48)																	142	142	100%	
9	Intake Gate wall and top slab																	150	150	100%	
10	Pump House top slab																	137	137	100%	
8	Mechanical & Electrical Work																	1set	-	67%	

Intake Pumping Station

No	Particular	2016 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Bored Pile (45 No)																	689	689	100%	
2	Base Slab Concrete																	304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																	147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																	147	147	100%	
5	Floor Beam & Slab (RL 6.2m)																	81	81	100%	
6	Column																	110	110	100%	
7	Window Sea Beam (RL 6.2m)																	10	10	100%	
8	Lintel Beam (RL 7.95)																	6.6	6.6	100%	
9	Tie Beam (RL 9.45)																	28.2	28.2	100%	
10	Roof Beam & Slab (RL 11.5)																	110	110	100%	
11	Brick work																	63	63	100%	
12	Plastering																	33	20	60%	
13	Window & Door																	18 Nos	9	50%	
14	Mechanical & Electrical Work																	1set	-	0%	

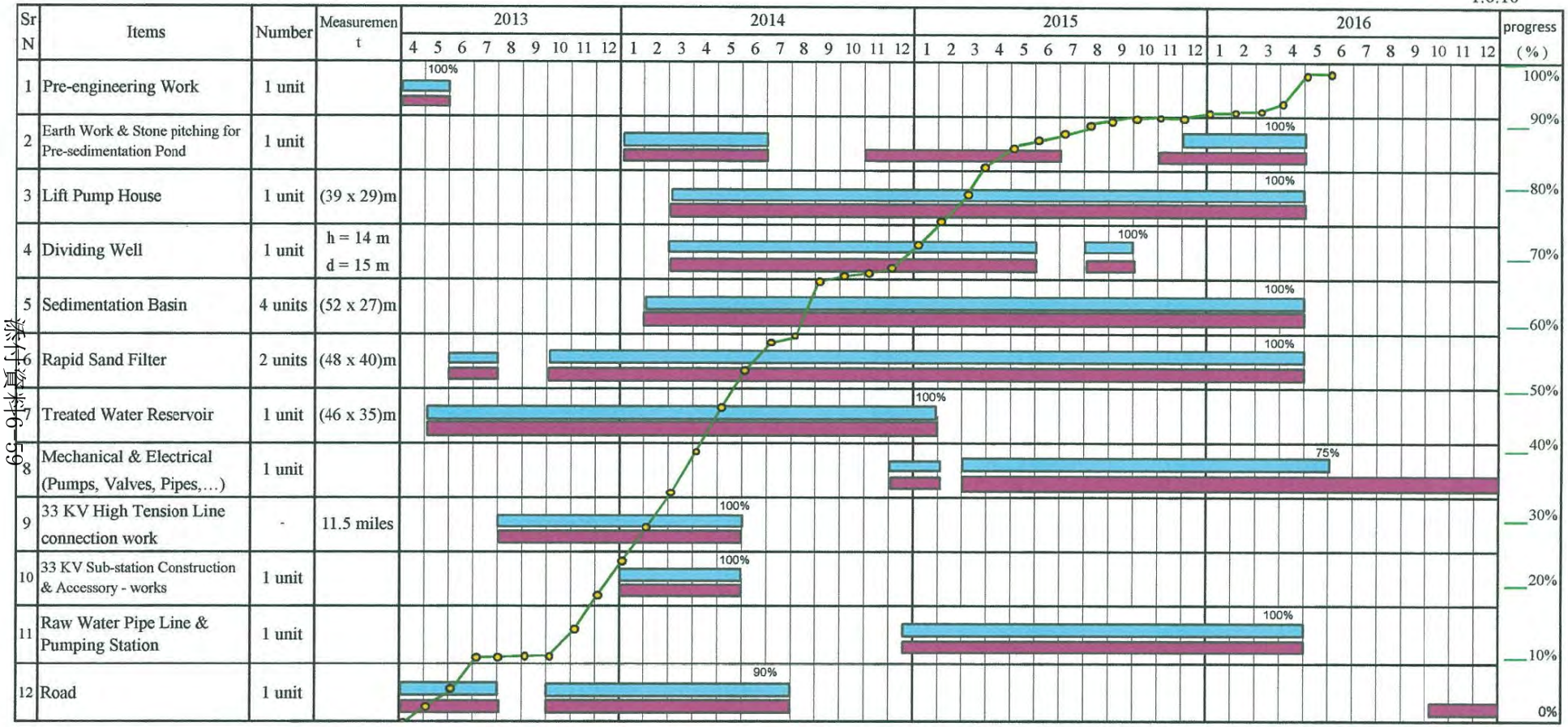
Raw Water Pipe Line

No	Particular	2016 MAR 1	2	3	4	APR 1	2	3	4	MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
																		Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)																	420	420	100%	
2	No (2) pip line (Line of inner side)																	420	420	100%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

1.6.16



Planned Actual

Clear Water Reservoir

No	Particular	2016 MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
										M^3	Amount	Percent	
1	Base Slab Concreting									1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)									1239	1239	100%	
3	Roof Beam-Slab									815	815	100%	
4	Mechanical and Electrical work									1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2016 MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
										M^3	Amount	Percent	
1	Base Slab Concreting									1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)									1858	1858	100%	
3	Filter Precast Slab									155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)									718	718	100%	
5	Brick Work & Plastering									102	102	100%	
6	Mechanical and Electrical work									1set	-	80%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2016 MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
										M^3	Amount	Percent	
1	Base Slab Concreting									1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)									1858	1858	100%	
3	Filter Precast Slab									155	151.2	98%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)									718	718	100%	
5	Brick Work & Plastering									102	102	100%	
6	Mechanical and Electrical work									1set	-	80%	

Sedimentation Basin (1)

No	Particular	2016 MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
										M^3	Amount	Percent	
1	Base Slab Concreting									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)									1027.22	1027.22	100%	
3	Roof slab									216	216	100%	
4	Mechanicl and Electrrical work									1set	-	95%	

Sedimentation Basin (2)

No	Particular	2016 MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
										M^3	Amount	Percent	
1	Base Slab Concreting									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)									1027.22	1027.22	100%	
3	Roof slab									216	216	100%	
4	Mechanicl and Electrrical work									1set	-	95%	

Sedimentation Basin (3)

No	Particular	2016 MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
										M^3	Amount	Percent	
1	Base Slab Concreting									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)									1027.22	1027.22	100%	
3	Roof slab									216	216	100%	
4	Mechanicl and Electrrical work									1set	-	95%	

Sedimentation Basin (4)

No	Particular	2016 MAY 1	2	3	4	JUN 1	2	3	4	Amount	Finishing		Remark
										M^3	Amount	Percent	
1	Base Slab Concreting									1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)									1027.22	1027.22	100%	
3	Roof slab									216	216	100%	
4	Mechanicl and Electrrical work									1set	-	95%	

Dividing well

No	Particular	2016								Amount	Finishing		Remark
		MAY				JUN							
		1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting									150	150	100%	
2	Tie Beam Level (1)									60	60	100%	
3	Tie Beam Level (2)									50	50	100%	
4	Floor slab level									74	74	100%	
5	Tie Beam Level (3)									97	97	100%	
6	Tie Beam Level (4)									97	97	100%	
7	Top Floor Level									93	93	100%	
8	Mechanical & Electrical Work									1set	-	95%	

Lift Pumping Station

No	Particular	2016								Amount	Finishing		Remark
		MAY				JUN							
		1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Lean concrete									-	-	100%	
2	Pump House Base Slab									487	487	100%	
3	Pit Base slab and Mat Beam									47	47	100%	
4	Pump House & Pit wall (8')									229	229	100%	
5	Tie Beam Level & Pump House wall									118	118	100%	
6	Intake Gate Base slab									148	148	100%	
7	Pump House wall next level									185	185	100%	
8	Intake Gate wall (0 to 8.48)									142	142	100%	
9	Intake Gate wall and top slab									150	150	100%	
10	Pump House top slab									137	137	100%	
8	Mechanical & Electrical Work									1set	-	75%	

Intake Pumping Station

No	Particular	2016								Amount	Finishing		Remark
		MAY				JUN							
		1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Bored Pile (45 No)									689	689	100%	
2	Base Slab Concrete									304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)									147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)									147	147	100%	
5	Floor Beam & Slab (RL 6.2m)									81	81	100%	
6	Column									110	110	100%	
7	Window Sea Beam (RL 6.2m)									10	10	100%	
8	Lintel Beam (RL 7.95)									6.6	6.6	100%	
9	Tie Beam (RL 9.45)									28.2	28.2	100%	
10	Roof Beam & Slab (RL 11.5)									110	110	100%	
11	Brick work									63	63	100%	
12	Plastering									33	33	100%	
13	Window & Door									18 Nos	18	100%	
14	Mechanical & Electrical Work									1set	-	0%	

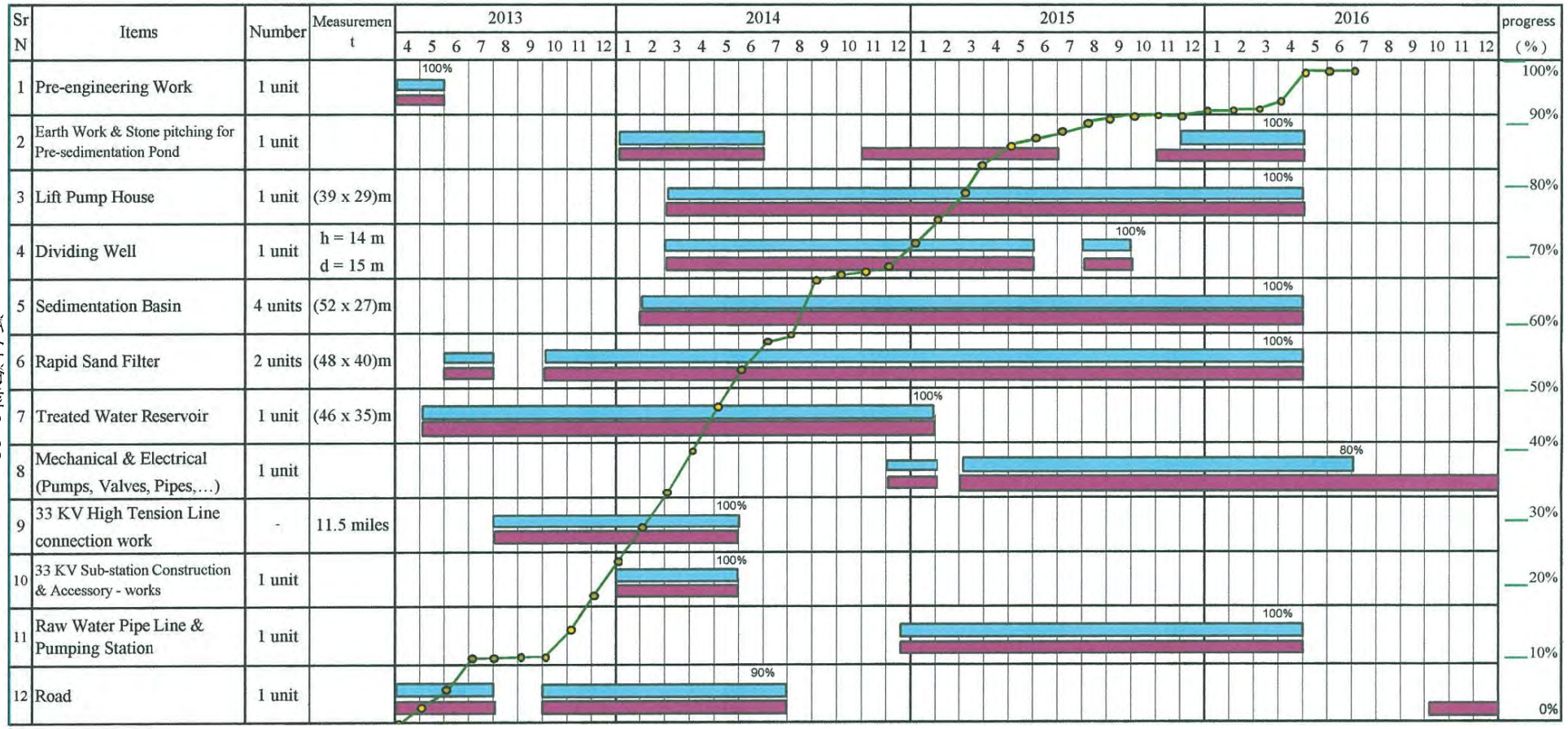
Raw Water Pipe Line

No	Particular	2016								Amount	Finishing		Remark
		MAY				JUN							
		1	2	3	4	1	2	3	4	Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)									420	420	100%	
2	No (2) pip line (Line of inner side)									420	420	100%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

1.7.16



添付資料6-62

E:\1.LGB (40)MGD(JICA)\LGB (Schedule).xlsx

Planned Actual

Clear Water Reservoir

No	Particular	2016 JUN 1 2 3 4	JULY 1 2 3 4	AUG 1 2 3 4	SEP 1 2 3 4	Amount	Finishing		Remark
						M^3	Amount	Percent	
1	Base Slab Concreting					1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)					1239	1239	100%	
3	Roof Beam-Slab					815	815	100%	
4	Mechanical and Electrical work					1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2016 JUN 1 2 3 4	JULY 1 2 3 4	AUG 1 2 3 4	SEP 1 2 3 4	Amount	Finishing		Remark
						M^3	Amount	Percent	
1	Base Slab Concreting					1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)					1858	1858	100%	
3	Filter Precast Slab					155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)					718	718	100%	
5	Brick Work & Plastering					102	102	100%	
6	Mechanical and Electrical work					1set	-	90%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2016 JUN 1 2 3 4	JUL 1 2 3 4	AUG 1 2 3 4	SEP 1 2 3 4	Amount	Finishing		Remark
						M^3	Amount	Percent	
1	Base Slab Concreting					1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)					1858	1858	100%	
3	Filter Precast Slab					155	151.2	98%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)					718	718	100%	
5	Brick Work & Plastering					102	102	100%	
6	Mechanical and Electrical work					1set	-	90%	

Sedimentation Basin (1)

No	Particular	2016 JUN 1 2 3 4	JULY 1 2 3 4	AUG 1 2 3 4	SEP 1 2 3 4	Amount	Finishing		Remark
						M^3	Amount	Percent	
1	Base Slab Concreting					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)					1027.22	1027.22	100%	
3	Roof slab					216	216	100%	
4	Mechanicl and Electrrical work					1set	-	100%	

Sedimentation Basin (2)

No	Particular	2016 JUN 1 2 3 4	JULY 1 2 3 4	AUG 1 2 3 4	SEP 1 2 3 4	Amount	Finishing		Remark
						M^3	Amount	Percent	
1	Base Slab Concreting					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)					1027.22	1027.22	100%	
3	Roof slab					216	216	100%	
4	Mechanicl and Electrrical work					1set	-	100%	

Sedimentation Basin (3)

No	Particular	2016 JUN 1 2 3 4	JULY 1 2 3 4	AUG 1 2 3 4	SEP 1 2 3 4	Amount	Finishing		Remark
						M^3	Amount	Percent	
1	Base Slab Concreting					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)					1027.22	1027.22	100%	
3	Roof slab					216	216	100%	
4	Mechanicl and Electrrical work					1set	-	100%	

Sedimentation Basin (4)

No	Particular	2016 JUN 1 2 3 4	JULY 1 2 3 4	AUG 1 2 3 4	SEP 1 2 3 4	Amount	Finishing		Remark
						M^3	Amount	Percent	
1	Base Slab Concreting					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)					1027.22	1027.22	100%	
3	Roof slab					216	216	100%	
4	Mechanicl and Electrrical work					1set	-	100%	

Dividing well

No	Particular	2016																Amount	Finishing		Remark
		JUN				JULY				AUG				SEP							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting																	150	150	100%	
2	Tie Beam Level (1)																	60	60	100%	
3	Tie Beam Level (2)																	50	50	100%	
4	Floor slab level																	74	74	100%	
5	Tie Beam Level (3)																	97	97	100%	
6	Tie Beam Level (4)																	97	97	100%	
7	Top Floor Level																	93	93	100%	
8	Mechanical & Electrical Work																	1set	-	95%	

Lift Pumping Station

No	Particular	2016																Amount	Finishing		Remark
		JUN				JULY				AUG				SEP							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Lean concrete																	-	-	100%	
2	Pump House Base Slab																	487	487	100%	
3	Pit Base slab and Mat Beam																	47	47	100%	
4	Pump House & Pit wall (8')																	229	229	100%	
5	Tie Beam Level & Pump House wall																	118	118	100%	
6	Intake Gate Base slab																	148	148	100%	
7	Pump House wall next level																	185	185	100%	
8	Intake Gate wall (0 to 8.48)																	142	142	100%	
9	Intake Gate wall and top slab																	150	150	100%	
10	Pump House top slab																	137	137	100%	
8	Mechanical & Electrical Work																	1set	-	90%	

Intake Pumping Station

No	Particular	2016																Amount	Finishing		Remark
		JUN				JULY				AUG				SEP							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Bored Pile (45 No)																	689	689	100%	
2	Base Slab Concrete																	304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																	147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																	147	147	100%	
5	Floor Beam & Slab (RL 6.2m)																	81	81	100%	
6	Column																	110	110	100%	
7	Window Sea Beam (RL 6.2m)																	10	10	100%	
8	Lintel Beam (RL 7.95)																	6.6	6.6	100%	
9	Tie Beam (RL 9.45)																	28.2	28.2	100%	
10	Roof Beam & Slab (RL 11.5)																	110	110	100%	
11	Brick work																	63	63	100%	
12	Plastering																	33	33	100%	
13	Window & Door																	18 Nos	18	100%	
14	Mechanical & Electrical Work																	1set	-	0%	

Raw Water Pipe Line

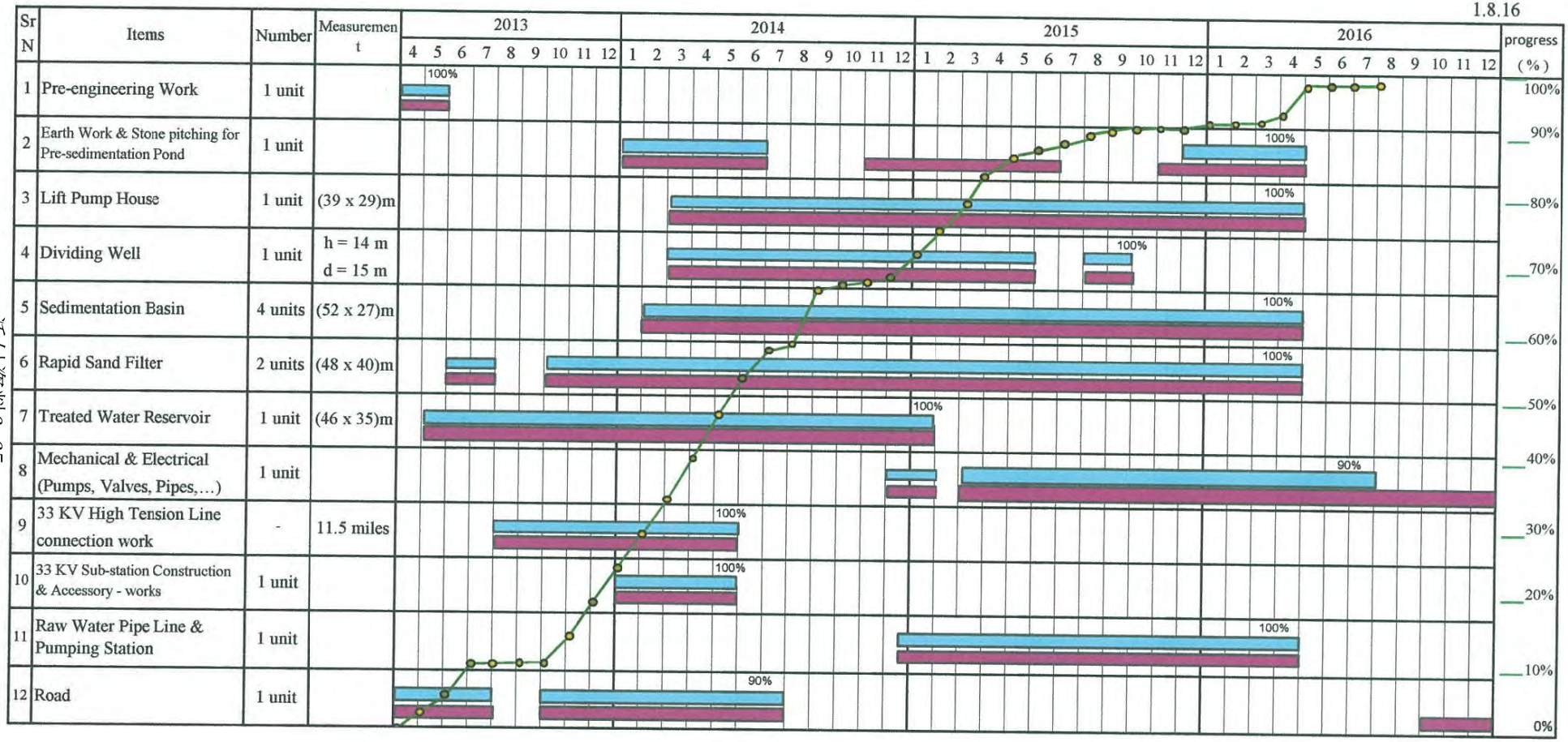
No	Particular	2016																Amount	Finishing		Remark
		JUN				JULY				AUG				SEP							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)																	420	420	100%	
2	No (2) pip line (Line of inner side)																	420	420	100%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

1.8.16

Sr N	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
3	Lift Pump House	1 unit	(39 x 29)m
4	Dividing Well	1 unit	h = 14 m d = 15 m
5	Sedimentation Basin	4 units	(52 x 27)m
6	Rapid Sand Filter	2 units	(48 x 40)m
7	Treated Water Reservoir	1 unit	(46 x 35)m
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Raw Water Pipe Line & Pumping Station	1 unit	
12	Road	1 unit	



Planned Actual

Clear Water Reservoir

No	Particular	2016 JUN 1	2	3	4	JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)																	1239	1239	100%	
3	Roof Beam-Slab																	815	815	100%	
4	Mechanical and Electrical work																	1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2016 JUN 1	2	3	4	JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																	1858	1858	100%	
3	Filter Precast Slab																	155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																	718	718	100%	
5	Brick Work & Plastering																	102	102	100%	
6	Mechanical and Electrical work																	1set	-	95%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2016 JUN 1	2	3	4	JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																	1858	1858	100%	
3	Filter Precast Slab																	155	151.2	98%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																	718	718	100%	
5	Brick Work & Plastering																	102	102	100%	
6	Mechanical and Electrical work																	1set	-	95%	

Sedimentation Basin (1)

No	Particular	2016 JUN 1	2	3	4	JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	100%	

Sedimentation Basin (2)

No	Particular	2016 JUN 1	2	3	4	JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	100%	

Sedimentation Basin (3)

No	Particular	2016 JUN 1	2	3	4	JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	100%	

Sedimentation Basin (4)

No	Particular	2016 JUN 1	2	3	4	JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	100%	

Dividing well

No	Particular	2016 JUN 1	2	3	4	JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	150	150	100%	
2	Tie Beam Level (1)																	60	60	100%	
3	Tie Beam Level (2)																	50	50	100%	
4	Floor slab level																	74	74	100%	
5	Tie Beam Level (3)																	97	97	100%	
6	Tie Beam Level (4)																	97	97	100%	
7	Top Floor Level																	93	93	100%	
8	Mechanical & Electrical Work																	1set	-	95%	

Lift Pumping Station

No	Particular	2016 JUN 1	2	3	4	JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Lean concrete																	-	-	100%	
2	Pump House Base Slab																	487	487	100%	
3	Pit Base slab and Mat Beam																	47	47	100%	
4	Pump House & Pit wall (8')																	229	229	100%	
5	Tie Beam Level & Pump House wall																	118	118	100%	
6	Intake Gate Base slab																	148	148	100%	
7	Pump House wall next level																	185	185	100%	
8	Intake Gate wall (0 to 8.48)																	142	142	100%	
9	Intake Gate wall and top slab																	150	150	100%	
10	Pump House top slab																	137	137	100%	
8	Mechanical & Electrical Work																	1set	-	95%	

Intake Pumping Station

No	Particular	2016 JUN 1	2	3	4	JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Bored Pile (45 No)																	689	689	100%	
2	Base Slab Concrete																	304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																	147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																	147	147	100%	
5	Floor Beam & Slab (RL 6.2m)																	81	81	100%	
6	Column																	110	110	100%	
7	Window Sea Beam (RL 6.2m)																	10	10	100%	
8	Lintel Beam (RL 7.95)																	6.6	6.6	100%	
9	Tie Beam (RL 9.45)																	28.2	28.2	100%	
10	Roof Beam & Slab (RL 11.5)																	110	110	100%	
11	Brick work																	63	63	100%	
12	Plastering																	33	33	100%	
13	Window & Door																	18 Nos	18	100%	
14	Mechanical & Electrical Work																	1set	-	0%	

Raw Water Pipe Line

No	Particular	2016 JUN 1	2	3	4	JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
																		Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)																	420	420	100%	
2	No (2) pip line (Line of inner side)																	420	420	100%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

1.9.16

Sr N	Items	Number	Measurement	2013 (4 5 6 7 8 9 10 11 12)	2014 (1 2 3 4 5 6 7 8 9 10 11 12)	2015 (1 2 3 4 5 6 7 8 9 10 11 12)	2016 (1 2 3 4 5 6 7 8 9 10 11 12)	progress (%)
1	Pre-engineering Work	1 unit		100%				
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit					100%	
3	Lift Pump House	1 unit	(39 x 29)m				100%	
4	Dividing Well	1 unit	h = 14 m d = 15 m			100%		
5	Sedimentation Basin	4 units	(52 x 27)m				100%	
6	Rapid Sand Filter	2 units	(48 x 40)m				100%	
7	Treated Water Reservoir	1 unit	(46 x 35)m		100%			
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit				90%		
9	33 KV High Tension Line connection work	-	11.5 miles		100%			
10	33 KV Sub-station Construction & Accessory - works	1 unit			100%			
11	Raw Water Pipe Line & Pumping Station	1 unit					100%	
12	Road	1 unit			90%			

100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0%

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Planned Actual

Clear Water Reservoir

No	Particular	2016 JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting													1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)													1239	1239	100%	
3	Roof Beam-Slab													815	815	100%	
4	Mechanical and Electrical work													1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2016 JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting													1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)													1858	1858	100%	
3	Filter Precast Slab													155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)													718	718	100%	
5	Brick Work & Plastering													102	102	100%	
6	Mechanical and Electrical work													1set	-	96%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2016 JUL 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting													1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)													1858	1858	100%	
3	Filter Precast Slab													155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)													718	718	100%	
5	Brick Work & Plastering													102	102	100%	
6	Mechanical and Electrical work													1set	-	96%	

Sedimentation Basin (1)

No	Particular	2016 JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting													1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)													1027.22	1027.22	100%	
3	Roof slab													216	216	100%	
4	Mechanicl and Electrrical work													1set	-	100%	

Sedimentation Basin (2)

No	Particular	2016 JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting													1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)													1027.22	1027.22	100%	
3	Roof slab													216	216	100%	
4	Mechanicl and Electrrical work													1set	-	100%	

Sedimentation Basin (3)

No	Particular	2016 JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting													1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)													1027.22	1027.22	100%	
3	Roof slab													216	216	100%	
4	Mechanicl and Electrrical work													1set	-	100%	

Sedimentation Basin (4)

No	Particular	2016 JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting													1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)													1027.22	1027.22	100%	
3	Roof slab													216	216	100%	
4	Mechanicl and Electrrical work													1set	-	100%	

Dividing well

No	Particular	2016 JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
														M^3	Amount	Percent	
1	Base Slab Concreting													150	150	100%	
2	Tie Beam Level (1)													60	60	100%	
3	Tie Beam Level (2)													50	50	100%	
4	Floor slab level													74	74	100%	
5	Tie Beam Level (3)													97	97	100%	
6	Tie Beam Level (4)													97	97	100%	
7	Top Floor Level													93	93	100%	
8	Mechanical & Electrical Work													1set	-	95%	

Lift Pumping Station

No	Particular	2016 JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
														M^3	Amount	Percent	
1	Lean concrete													-	-	100%	
2	Pump House Base Slab													487	487	100%	
3	Pit Base slab and Mat Beam													47	47	100%	
4	Pump House & Pit wall (8')													229	229	100%	
5	Tie Beam Level & Pump House wall													118	118	100%	
6	Intake Gate Base slab													148	148	100%	
7	Pump House wall next level													185	185	100%	
8	Intake Gate wall (0 to 8.48)													142	142	100%	
9	Intake Gate wall and top slab													150	150	100%	
10	Pump House top slab													137	137	100%	
8	Mechanical & Electrical Work													1set	-	96%	

Intake Pumping Station

No	Particular	2016 JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
														M^3	Amount	Percent	
1	Bored Pile (45 No)													689	689	100%	
2	Base Slab Concrete													304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)													147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)													147	147	100%	
5	Floor Beam & Slab (RL 6.2m)													81	81	100%	
6	Column													110	110	100%	
7	Window Sea Beam (RL 6.2m)													10	10	100%	
8	Lintel Beam (RL 7.95)													6.6	6.6	100%	
9	Tie Beam (RL 9.45)													28.2	28.2	100%	
10	Roof Beam & Slab (RL 11.5)													110	110	100%	
11	Brick work													63	63	100%	
12	Plastering													33	33	100%	
13	Window & Door													18 Nos	18	100%	
14	Mechanical & Electrical Work													1set	-	0%	

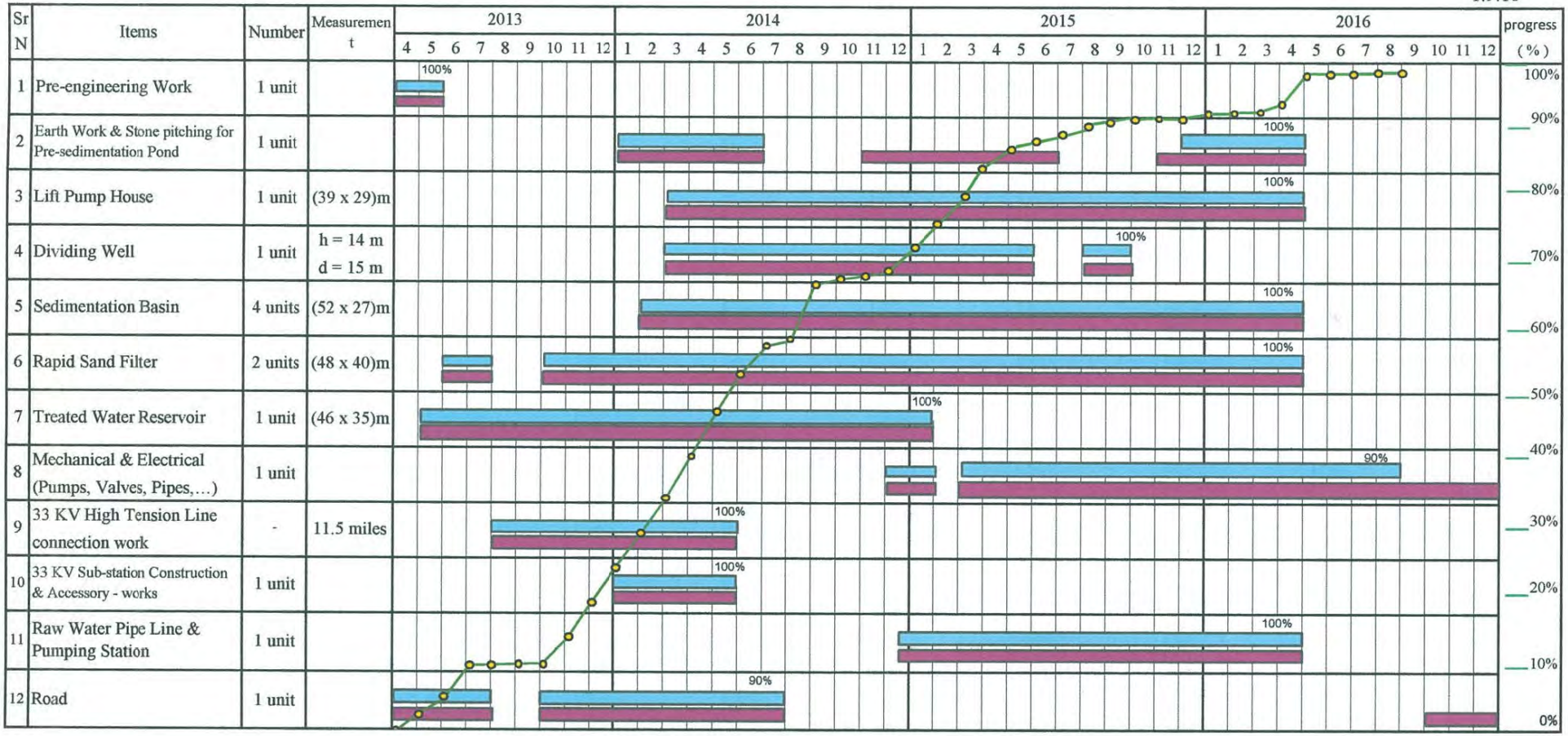
Raw Water Pipe Line

No	Particular	2016 JULY 1	2	3	4	AUG 1	2	3	4	SEP 1	2	3	4	Amount	Finishing		Remark
														Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)													420	420	100%	
2	No (2) pip line (Line of inner side)													420	420	100%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

1.9.16



添付資料6-71

E:\1.LGB (40)MGD(JICA)\LGB (Schedule).xlsx

Planned Actual

Clear Water Reservoir

No	Particular	2016 AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)																	1239	1239	100%	
3	Roof Beam-Slab																	815	815	100%	
4	Mechanical work																	1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2016 AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																	1858	1858	100%	
3	Filter Precast Slab																	155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																	718	718	100%	
5	Brick Work & Plastering																	102	102	100%	
6	Mechanical and Electrical work																	1set	-	96%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2016 AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																	1858	1858	100%	
3	Filter Precast Slab																	155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																	718	718	100%	
5	Brick Work & Plastering																	102	102	100%	
6	Mechanical and Electrical work																	1set	-	96%	

Sedimentation Basin (1)

No	Particular	2016 AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	100%	

Sedimentation Basin (2)

No	Particular	2016 AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	100%	

Sedimentation Basin (3)

No	Particular	2016 AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	100%	

Sedimentation Basin (4)

No	Particular	2016 AUG 1	2	3	4	SEP 1	2	3	4	OCT 1	2	3	4	NOV 1	2	3	4	Amount M^3	Finishing Amount	Finishing Percent	Remark
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	100%	

Dividing well

No	Particular	2016																Amount	Finishing		Remark
		AUG				SEP				OCT				NOV							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting																	150	150	100%	
2	Tie Beam Level (1)																	60	60	100%	
3	Tie Beam Level (2)																	50	50	100%	
4	Floor slab level																	74	74	100%	
5	Tie Beam Level (3)																	97	97	100%	
6	Tie Beam Level (4)																	97	97	100%	
7	Top Floor Level																	93	93	100%	
8	Mechanical & Electrical Work																	1set	-	95%	

Lift Pumping Station

No	Particular	2016																Amount	Finishing		Remark
		AUG				SEP				OCT				NOV							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Lean concrete																	-	-	100%	
2	Pump House Base Slab																	487	487	100%	
3	Pit Base slab and Mat Beam																	47	47	100%	
4	Pump House & Pit wall (8')																	229	229	100%	
5	Tie Beam Level & Pump House wall																	118	118	100%	
6	Intake Gate Base slab																	148	148	100%	
7	Pump House wall next level																	185	185	100%	
8	Intake Gate wall (0 to 8.48)																	142	142	100%	
9	Intake Gate wall and top slab																	150	150	100%	
10	Pump House top slab																	137	137	100%	
8	Mechanical & Electrical Work																	1set	-	96%	

Intake Pumping Station

No	Particular	2016																Amount	Finishing		Remark
		AUG				SEP				OCT				NOV							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Bored Pile (45 No)																	689	689	100%	
2	Base Slab Concrete																	304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																	147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																	147	147	100%	
5	Floor Beam & Slab (RL 6.2m)																	81	81	100%	
6	Column																	110	110	100%	
7	Window Sea Beam (RL 6.2m)																	10	10	100%	
8	Lintel Beam (RL 7.95)																	6.6	6.6	100%	
9	Tie Beam (RL 9.45)																	28.2	28.2	100%	
10	Roof Beam & Slab (RL 11.5)																	110	110	100%	
11	Brick work																	63	63	100%	
12	Plastering																	33	33	100%	
13	Window & Door																	18 Nos	18	100%	
14	Mechanical & Electrical Work																	1set	-	0%	

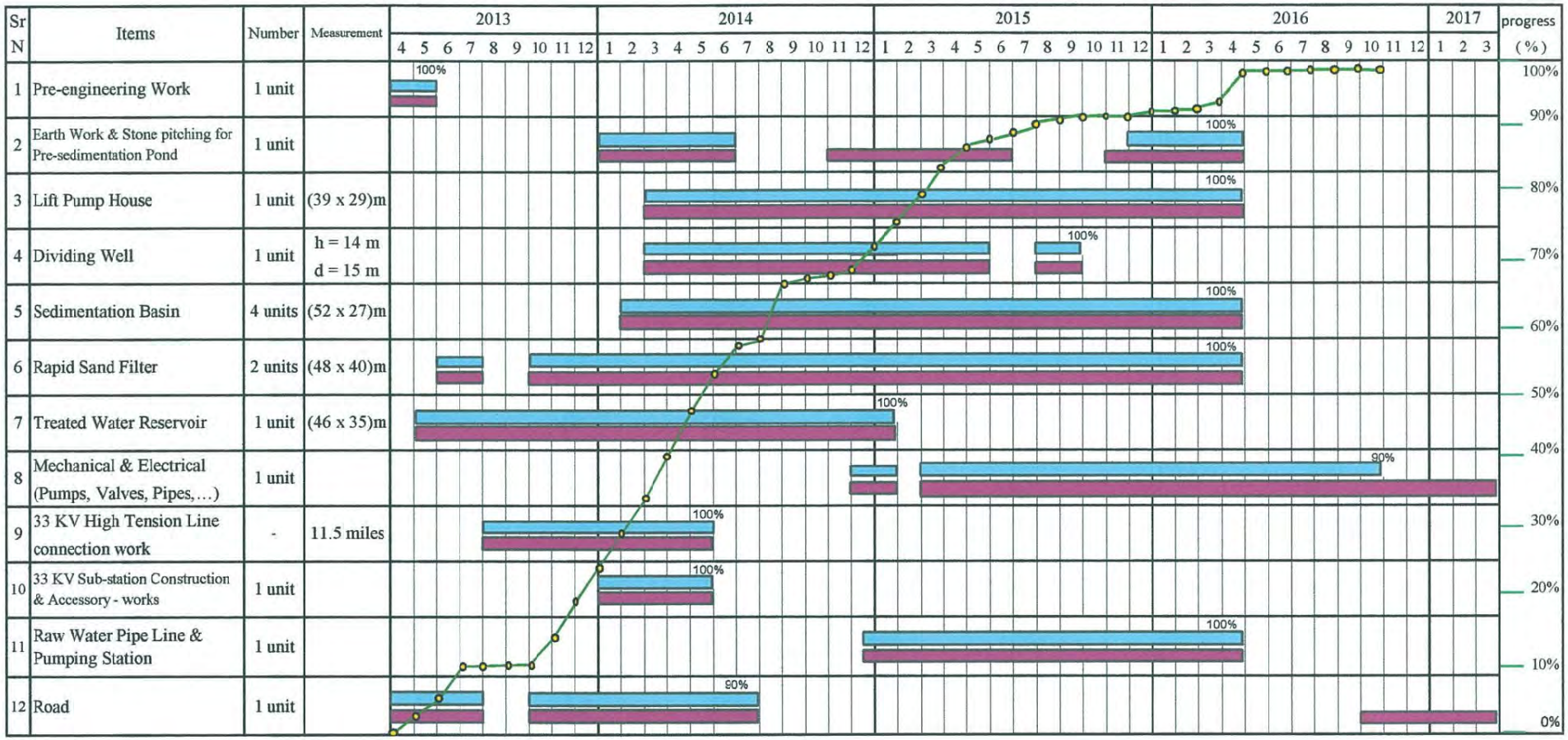
Raw Water Pipe Line

No	Particular	2016																Amount	Finishing		Remark
		AUG				SEP				OCT				NOV							
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)																	420	420	100%	
2	No (2) pip line (Line of inner side)																	420	420	100%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

1.11.16



Planned Actual

Clear Water Reservoir

No	Particular	2016 SEP	OCT	NOV	DEC 1	2	3	4	Amount M^3	Finishing Amount	Percent	Remark
1	Base Slab Concreting								1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)								1239	1239	100%	
3	Roof Beam-Slab								815	815	100%	
4	Mechanical and Electrical work								1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2016 SEP	OCT	NOV	DEC 1	2	3	4	Amount M^3	Finishing Amount	Percent	Remark
1	Base Slab Concreting								1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)								1858	1858	100%	
3	Filter Precast Slab								155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)								718	718	100%	
5	Brick Work & Plastering								102	102	100%	
6	Mechanical and Electrical work								1set	-	96%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2016 SEP	OCT	NOV	DEC 1	2	3	4	Amount M^3	Finishing Amount	Percent	Remark
1	Base Slab Concreting								1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)								1858	1858	100%	
3	Filter Precast Slab								155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)								718	718	100%	
5	Brick Work & Plastering								102	102	100%	
6	Mechanical and Electrical work								1set	-	96%	

Sedimentation Basin (1)

No	Particular	2016 SEP	OCT	NOV	DEC 1	2	3	4	Amount M^3	Finishing Amount	Percent	Remark
1	Base Slab Concreting								1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)								1027.22	1027.22	100%	
3	Roof slab								216	216	100%	
4	Mechanicl and Electrrical work								1set	-	100%	

Sedimentation Basin (2)

No	Particular	2016 SEP	OCT	NOV	DEC 1	2	3	4	Amount M^3	Finishing Amount	Percent	Remark
1	Base Slab Concreting								1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)								1027.22	1027.22	100%	
3	Roof slab								216	216	100%	
4	Mechanicl and Electrrical work								1set	-	100%	

Sedimentation Basin (3)

No	Particular	2016 SEP	OCT	NOV	DEC 1	2	3	4	Amount M^3	Finishing Amount	Percent	Remark
1	Base Slab Concreting								1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)								1027.22	1027.22	100%	
3	Roof slab								216	216	100%	
4	Mechanicl and Electrrical work								1set	-	100%	

Sedimentation Basin (4)

No	Particular	2016 SEP	OCT	NOV	DEC 1	2	3	4	Amount M^3	Finishing Amount	Percent	Remark
1	Base Slab Concreting								1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)								1027.22	1027.22	100%	
3	Roof slab								216	216	100%	
4	Mechanicl and Electrrical work								1set	-	100%	

Dividing well

No	Particular	2016										Amount	Finishing		Remark
		SEP				OCT				NOV		DEC							
												1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting															150	150	100%	
2	Tie Beam Level (1)															60	60	100%	
3	Tie Beam Level (2)															50	50	100%	
4	Floor slab level															74	74	100%	
5	Tie Beam Level (3)															97	97	100%	
6	Tie Beam Level (4)															97	97	100%	
7	Top Floor Level															93	93	100%	
8	Mechanical & Electrical Work															1set	-	97%	

Lift Pumping Station

No	Particular	2016										Amount	Finishing		Remark
		SEP				OCT				NOV		DEC							
												1	2	3	4	M^3	Amount	Percent	
1	Lean concrete															-	-	100%	
2	Pump House Base Slab															487	487	100%	
3	Pit Base slab and Mat Beam															47	47	100%	
4	Pump House & Pit wall (8')															229	229	100%	
5	Tie Beam Level & Pump House wall															118	118	100%	
6	Intake Gate Base slab															148	148	100%	
7	Pump House wall next level															185	185	100%	
8	Intake Gate wall (0 to 8.48)															142	142	100%	
9	Intake Gate wall and top slab															150	150	100%	
10	Pump House top slab															137	137	100%	
8	Mechanical & Electrical Work															1set	-	96%	

Intake Pumping Station

No	Particular	2016										Amount	Finishing		Remark
		SEP				OCT				NOV		DEC							
												1	2	3	4	M^3	Amount	Percent	
1	Bored Pile (45 No)															689	689	100%	
2	Base Slab Concrete															304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)															147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)															147	147	100%	
5	Floor Beam & Slab (RL 6.2m)															81	81	100%	
6	Column															110	110	100%	
7	Window Sea Beam (RL 6.2m)															10	10	100%	
8	Lintel Beam (RL 7.95)															6.6	6.6	100%	
9	Tie Beam (RL 9.45)															28.2	28.2	100%	
10	Roof Beam & Slab (RL 11.5)															110	110	100%	
11	Brick work															63	63	100%	
12	Plastering															33	33	100%	
13	Window & Door															18 Nos	18	100%	
14	Mechanical & Electrical Work															1set	-	0%	

Raw Water Pipe Line

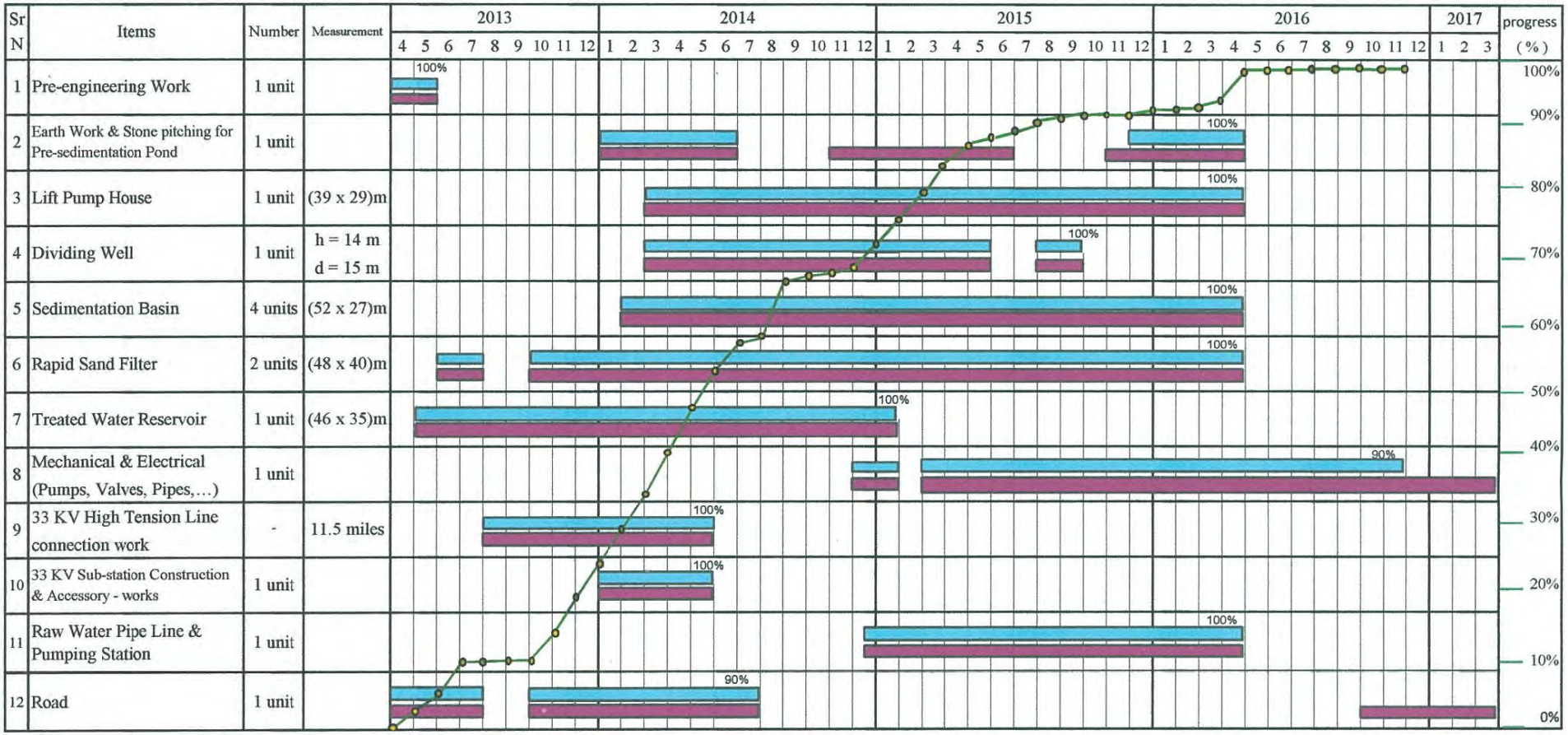
No	Particular	2016										Amount	Finishing		Remark
		SEP				OCT				NOV		DEC							
												1	2	3	4	Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)															420	420	100%	
2	No (2) pip line (Line of inner side)															420	420	100%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

1.12.16

Sr N	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
3	Lift Pump House	1 unit	(39 x 29)m
4	Dividing Well	1 unit	h = 14 m d = 15 m
5	Sedimentation Basin	4 units	(52 x 27)m
6	Rapid Sand Filter	2 units	(48 x 40)m
7	Treated Water Reservoir	1 unit	(46 x 35)m
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Raw Water Pipe Line & Pumping Station	1 unit	
12	Road	1 unit	



添付資料6-77

E:\1.LGB (40)MGD(JICA)\LGB (Schedule).xlsx

Planned Actual

Clear Water Reservoir

No	Particular	2016 OCT	2016 NOV	2016 DEC	2017 JAN	Amount	Finishing		Remark
				1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting					1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)					1239	1239	100%	
3	Roof Beam-Slab					815	815	100%	
4	Mechanical and Electrical work					1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2016 OCT	2016 NOV	2016 DEC	2017 JAN	Amount	Finishing		Remark
				1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting					1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)					1858	1858	100%	
3	Filter Precast Slab					155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)					718	718	100%	
5	Brick Work & Plastering					102	102	100%	
6	Mechanical and Electrical work					1set	-	96%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2016 OCT	2016 NOV	2016 DEC	2017 JAN	Amount	Finishing		Remark
				1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting					1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)					1858	1858	100%	
3	Filter Precast Slab					155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)					718	718	100%	
5	Brick Work & Plastering					102	102	100%	
6	Mechanical and Electrical work					1set	-	96%	

Sedimentation Basin (1)

No	Particular	2016 OCT	2016 NOV	2016 DEC	2017 JAN	Amount	Finishing		Remark
				1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)					1027.22	1027.22	100%	
3	Roof slab					216	216	100%	
4	Mechanicl and Electrrical work					1set	-	100%	

Sedimentation Basin (2)

No	Particular	2016 OCT	2016 NOV	2016 DEC	2017 JAN	Amount	Finishing		Remark
				1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)					1027.22	1027.22	100%	
3	Roof slab					216	216	100%	
4	Mechanicl and Electrrical work					1set	-	100%	

Sedimentation Basin (3)

No	Particular	2016 OCT	2016 NOV	2016 DEC	2017 JAN	Amount	Finishing		Remark
				1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)					1027.22	1027.22	100%	
3	Roof slab					216	216	100%	
4	Mechanicl and Electrrical work					1set	-	100%	

Sedimentation Basin (4)

No	Particular	2016 OCT	2016 NOV	2016 DEC	2017 JAN	Amount	Finishing		Remark
				1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting					1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)					1027.22	1027.22	100%	
3	Roof slab					216	216	100%	
4	Mechanicl and Electrrical work					1set	-	100%	

Dividing well

No	Particular	2016 OCT	2016 NOV	2016 DEC	2017 JAN	Amount	Finishing		Remark
				1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Base Slab Concreting					150	150	100%	
2	Tie Beam Level (1)					60	60	100%	
3	Tie Beam Level (2)					50	50	100%	
4	Floor slab level					74	74	100%	
5	Tie Beam Level (3)					97	97	100%	
6	Tie Beam Level (4)					97	97	100%	
7	Top Floor Level					93	93	100%	
8	Mechanical & Electrical Work					1set	-	97%	

Lift Pumping Station

No	Particular	2016 OCT	2016 NOV	2016 DEC	2017 JAN	Amount	Finishing		Remark
				1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Lean concrete					-	-	100%	
2	Pump House Base Slab					487	487	100%	
3	Pit Base slab and Mat Beam					47	47	100%	
4	Pump House & Pit wall (8')					229	229	100%	
5	Tie Beam Level & Pump House wall					118	118	100%	
6	Intake Gate Base slab					148	148	100%	
7	Pump House wall next level					185	185	100%	
8	Intake Gate wall (0 to 8.48)					142	142	100%	
9	Intake Gate wall and top slab					150	150	100%	
10	Pump House top slab					137	137	100%	
8	Mechanical & Electrical Work					1set	-	96%	

Intake Pumping Station

No	Particular	2016 OCT	2016 NOV	2016 DEC	2017 JAN	Amount	Finishing		Remark
				1 2 3 4	1 2 3 4	M^3	Amount	Percent	
1	Bored Pile (45 No)					689	689	100%	
2	Base Slab Concrete					304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)					147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)					147	147	100%	
5	Floor Beam & Slab (RL 6.2m)					81	81	100%	
6	Column					110	110	100%	
7	Window Sea Beam (RL 6.2m)					10	10	100%	
8	Lintel Beam (RL 7.95)					6.6	6.6	100%	
9	Tie Beam (RL 9.45)					28.2	28.2	100%	
10	Roof Beam & Slab (RL 11.5)					110	110	100%	
11	Brick work					63	63	100%	
12	Plastering					33	33	100%	
13	Window & Door					18 Nos	18	100%	
14	Mechanical & Electrical Work					1set	-	0%	

Raw Water Pipe Line

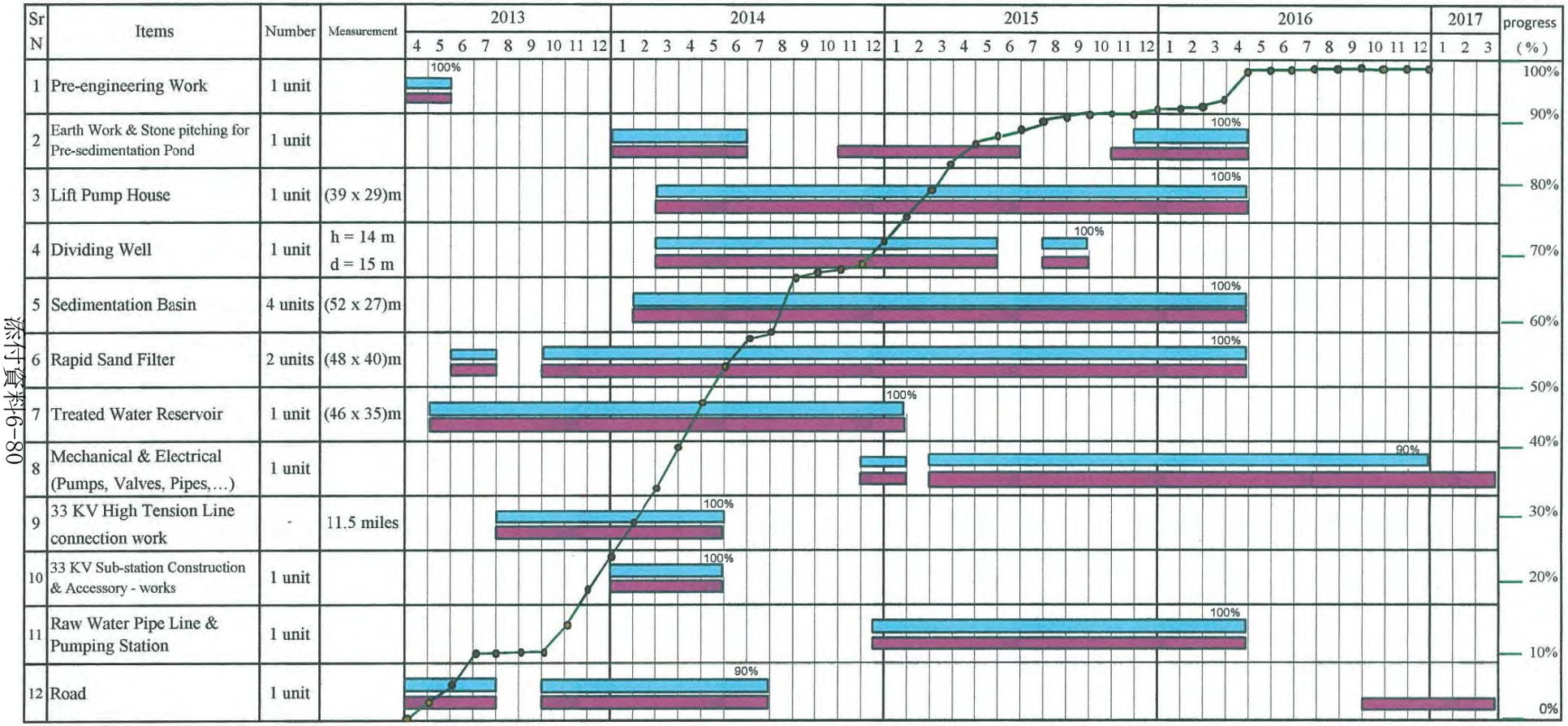
No	Particular	2016 OCT	2016 NOV	2016 DEC	2017 JAN	Amount	Finishing		Remark
				1 2 3 4	1 2 3 4	Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)					420	420	100%	
2	No (2) pip line (Line of inner side)					420	420	100%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

2.1.17

Sr N	Items	Number	Measurement	progress (%)
1	Pre-engineering Work	1 unit		100%
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit		100%
3	Lift Pump House	1 unit	(39 x 29)m	100%
4	Dividing Well	1 unit	h = 14 m d = 15 m	100%
5	Sedimentation Basin	4 units	(52 x 27)m	100%
6	Rapid Sand Filter	2 units	(48 x 40)m	100%
7	Treated Water Reservoir	1 unit	(46 x 35)m	100%
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit		90%
9	33 KV High Tension Line connection work	-	11.5 miles	100%
10	33 KV Sub-station Construction & Accessory - works	1 unit		100%
11	Raw Water Pipe Line & Pumping Station	1 unit		100%
12	Road	1 unit		90%



添付資料6-80

Planned Actual

Clear Water Reservoir

No	Particular	2016								2017								Amount	Finishing		Remark
		NOV				DEC				JAN				FEB							
						1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting																	1776	1776	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)																	1239	1239	100%	
3	Roof Beam-Slab																	815	815	100%	
4	Mechanical and Electrical work																	1set	-	0%	

Rapid Sand Filter Work Schedule (1)

No	Particular	2016								2017								Amount	Finishing		Remark
		NOV				DEC				JAN				FEB							
						1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting																	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																	1858	1858	100%	
3	Filter Precast Slab																	155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																	718	718	100%	
5	Brick Work & Plastering																	102	102	100%	
6	Mechanical and Electrical work																	1set	-	98%	

Rapid Sand Filter Work Schedule (2)

No	Particular	2016								2017								Amount	Finishing		Remark
		NOV				DEC				JAN				FEB							
						1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting																	1773	1773	100%	
2	Super Structure Concreting-I (Wall,Beam,Column,Slab)(4.3to8.4)																	1858	1858	100%	
3	Filter Precast Slab																	155	155	100%	
4	Super Structure Concreting-II (Wall,Beam,Column,Slab)(8.4to10.5)																	718	718	100%	
5	Brick Work & Plastering																	102	102	100%	
6	Mechanical and Electrical work																	1set	-	98%	

Sedimentation Basin (1)

No	Particular	2016								2017								Amount	Finishing		Remark
		NOV				DEC				JAN				FEB							
						1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	100%	

Sedimentation Basin (2)

No	Particular	2016								2017								Amount	Finishing		Remark
		NOV				DEC				JAN				FEB							
						1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	100%	

Sedimentation Basin (3)

No	Particular	2016								2017								Amount	Finishing		Remark
		NOV				DEC				JAN				FEB							
						1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	100%	

Sedimentation Basin (4)

No	Particular	2016								2017								Amount	Finishing		Remark
		NOV				DEC				JAN				FEB							
						1	2	3	4	1	2	3	4	1	2	3	4	M^3	Amount	Percent	
1	Base Slab Concreting																	1051	1051	100%	
2	Super Structure Concreting (Wall,Beam,Column)																	1027.22	1027.22	100%	
3	Roof slab																	216	216	100%	
4	Mechanicl and Electrrical work																	1set	-	100%	

Dividing well

No	Particular	2016 NOV 1	2016 NOV 2	2016 NOV 3	2016 NOV 4	2016 DEC 1	2016 DEC 2	2016 DEC 3	2016 DEC 4	2017 JAN 1	2017 JAN 2	2017 JAN 3	2017 JAN 4	2017 FEB 1	2017 FEB 2	2017 FEB 3	2017 FEB 4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Base Slab Concreting																	150	150	100%	
2	Tie Beam Level (1)																	60	60	100%	
3	Tie Beam Level (2)																	50	50	100%	
4	Floor slab level																	74	74	100%	
5	Tie Beam Level (3)																	97	97	100%	
6	Tie Beam Level (4)																	97	97	100%	
7	Top Floor Level																	93	93	100%	
8	Mechanical & Electrical Work																	1set	-	97%	

Lift Pumping Station

No	Particular	2016 NOV 1	2016 NOV 2	2016 NOV 3	2016 NOV 4	2016 DEC 1	2016 DEC 2	2016 DEC 3	2016 DEC 4	2017 JAN 1	2017 JAN 2	2017 JAN 3	2017 JAN 4	2017 FEB 1	2017 FEB 2	2017 FEB 3	2017 FEB 4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Lean concrete																	-	-	100%	
2	Pump House Base Slab																	487	487	100%	
3	Pit Base slab and Mat Beam																	47	47	100%	
4	Pump House & Pit wall (8')																	229	229	100%	
5	Tie Beam Level & Pump House wall																	118	118	100%	
6	Intake Gate Base slab																	148	148	100%	
7	Pump House wall next level																	185	185	100%	
8	Intake Gate wall (0 to 8.48)																	142	142	100%	
9	Intake Gate wall and top slab																	150	150	100%	
10	Pump House top slab																	137	137	100%	
8	Mechanical & Electrical Work																	1set	-	100%	

Intake Pumping Station

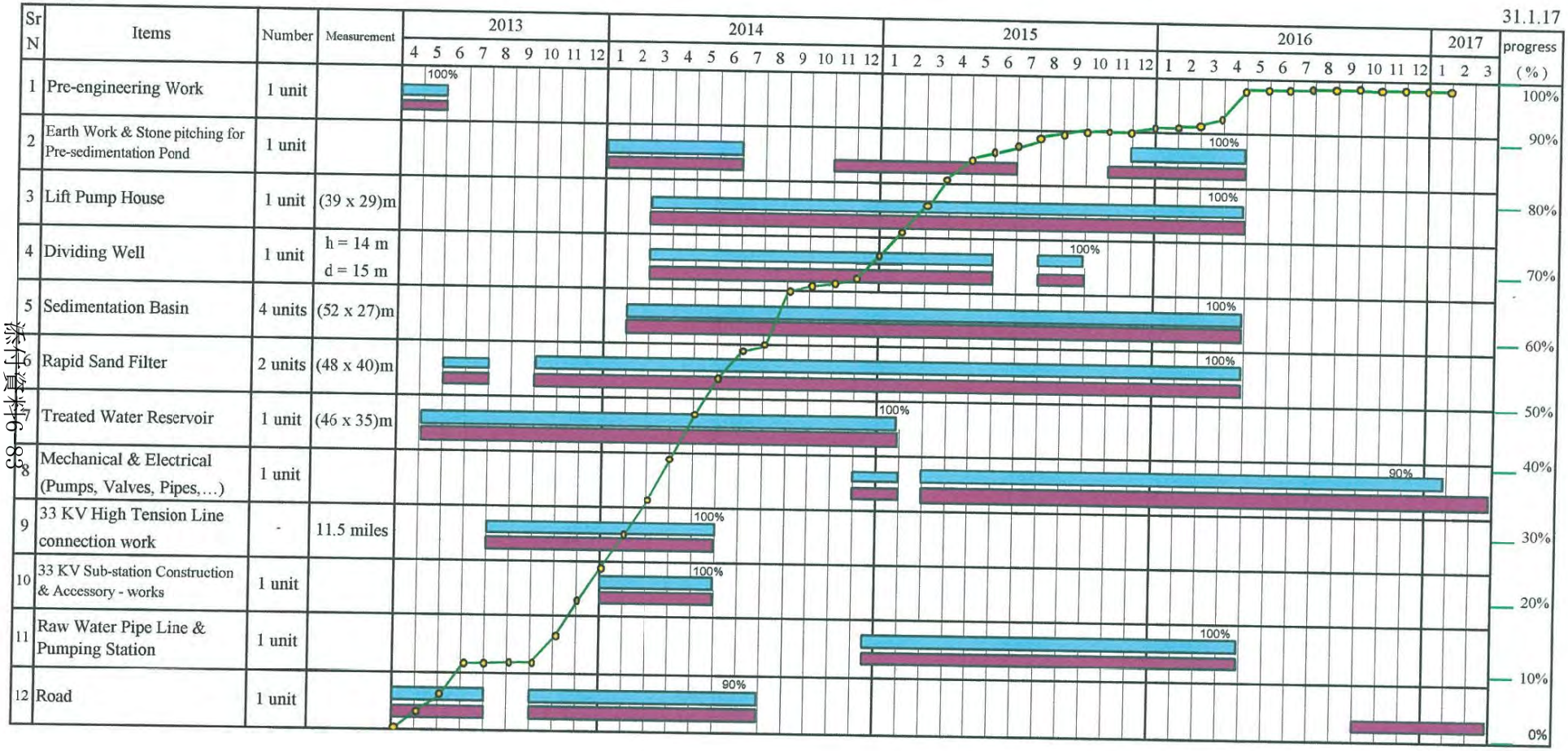
No	Particular	2016 NOV 1	2016 NOV 2	2016 NOV 3	2016 NOV 4	2016 DEC 1	2016 DEC 2	2016 DEC 3	2016 DEC 4	2017 JAN 1	2017 JAN 2	2017 JAN 3	2017 JAN 4	2017 FEB 1	2017 FEB 2	2017 FEB 3	2017 FEB 4	Amount	Finishing		Remark
																		M^3	Amount	Percent	
1	Bored Pile (45 No)																	689	689	100%	
2	Base Slab Concrete																	304	304	100%	
3	8 ft Height Wall (to RL 2.44 m)																	147	147	100%	
4	8 ft Height Wall (to RL 4.88 m)																	147	147	100%	
5	Floor Beam & Slab (RL 6.2m)																	81	81	100%	
6	Column																	110	110	100%	
7	Window Sea Beam (RL 6.2m)																	10	10	100%	
8	Lintel Beam (RL 7.95)																	6.6	6.6	100%	
9	Tie Beam (RL 9.45)																	28.2	28.2	100%	
10	Roof Beam & Slab (RL 11.5)																	110	110	100%	
11	Brick work																	63	63	100%	
12	Plastering																	33	33	100%	
13	Window & Door																	18 Nos	18	100%	
14	Mechanical & Electrical Work																	1set	-	0%	

Raw Water Pipe Line

No	Particular	2016 NOV 1	2016 NOV 2	2016 NOV 3	2016 NOV 4	2016 DEC 1	2016 DEC 2	2016 DEC 3	2016 DEC 4	2017 JAN 1	2017 JAN 2	2017 JAN 3	2017 JAN 4	2017 FEB 1	2017 FEB 2	2017 FEB 3	2017 FEB 4	Amount	Finishing		Remark
																		Nos	Amount	Percent	
1	No (1) pipe line (Line of road side)																	420	420	100%	
2	No (2) pip line (Line of inner side)																	420	420	100%	

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)



Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

1.3.17

Sr N	Items	Number	Measurement	2013 (4 5 6 7 8 9 10 11 12)	2014 (1 2 3 4 5 6 7 8 9 10 11 12)	2015 (1 2 3 4 5 6 7 8 9 10 11 12)	2016 (1 2 3 4 5 6 7 8 9 10 11 12)	2017 (1 2 3)	progress (%)
1	Pre-engineering Work	1 unit		100%					
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit					100%		
3	Lift Pump House	1 unit	(39 x 29)m				100%		
4	Dividing Well	1 unit	h = 14 m d = 15 m				100%		
5	Sedimentation Basin	4 units	(52 x 27)m				100%		
6	Rapid Sand Filter	2 units	(48 x 40)m				100%		
7	Treated Water Reservoir	1 unit	(46 x 35)m			100%			
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit						90%	
9	33 KV High Tension Line connection work	-	11.5 miles		100%				
10	33 KV Sub-station Construction & Accessory - works	1 unit			100%				
11	Raw Water Pipe Line & Pumping Station	1 unit					100%		
12	Road	1 unit			90%				

100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0%

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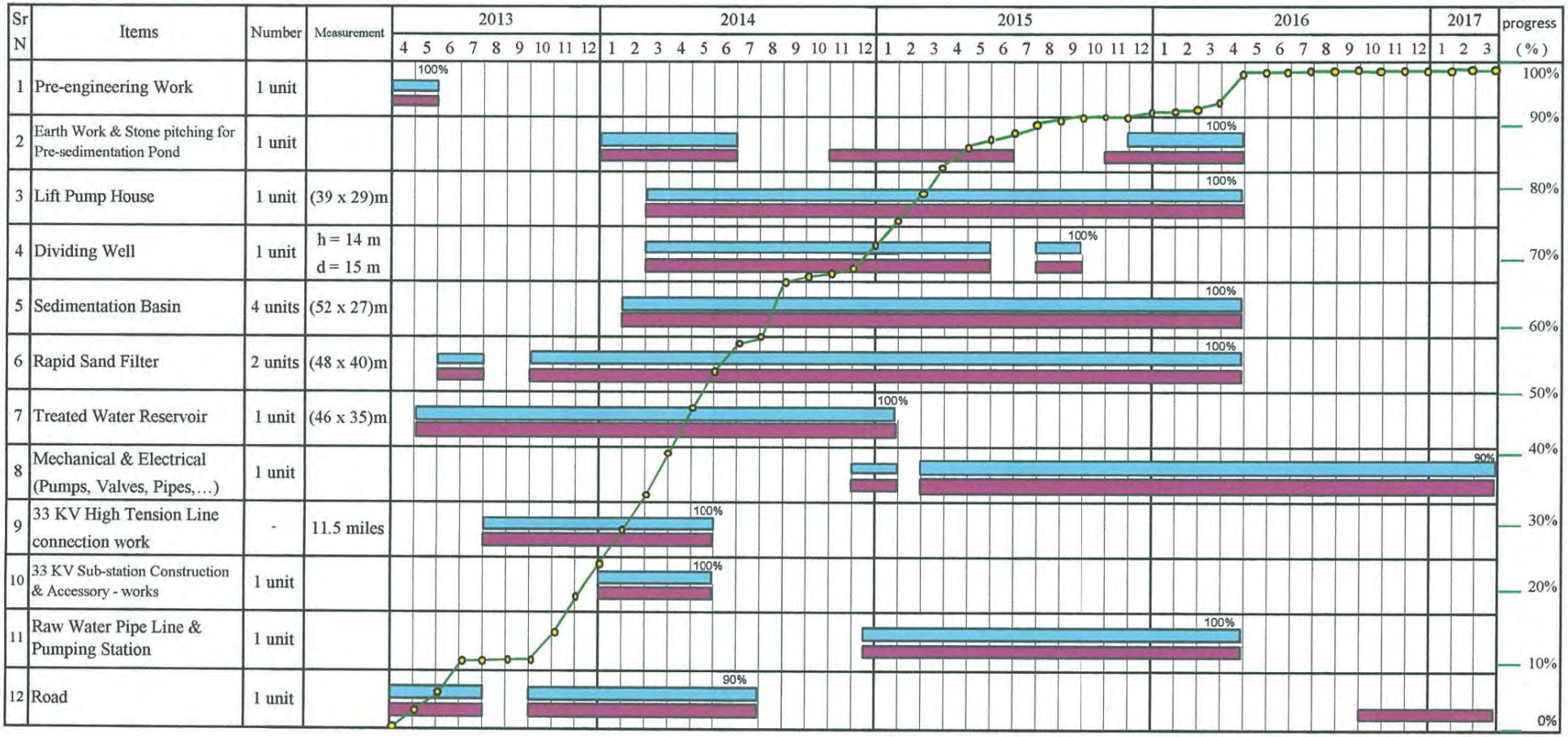
Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

31.3.17

Sr N	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
3	Lift Pump House	1 unit	(39 x 29)m
4	Dividing Well	1 unit	h = 14 m d = 15 m
5	Sedimentation Basin	4 units	(52 x 27)m
6	Rapid Sand Filter	2 units	(48 x 40)m
7	Treated Water Reservoir	1 unit	(46 x 35)m
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Raw Water Pipe Line & Pumping Station	1 unit	
12	Road	1 unit	

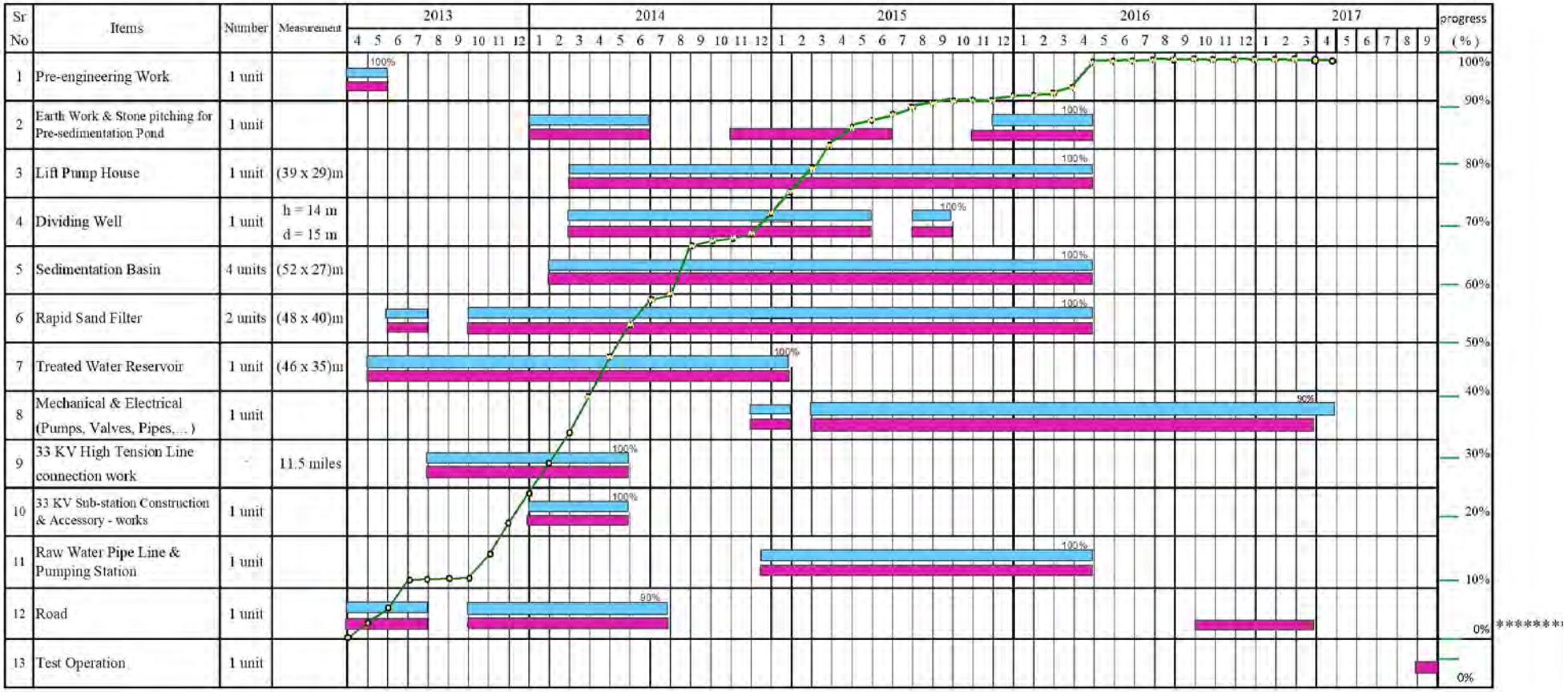


添付資料6-85

Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

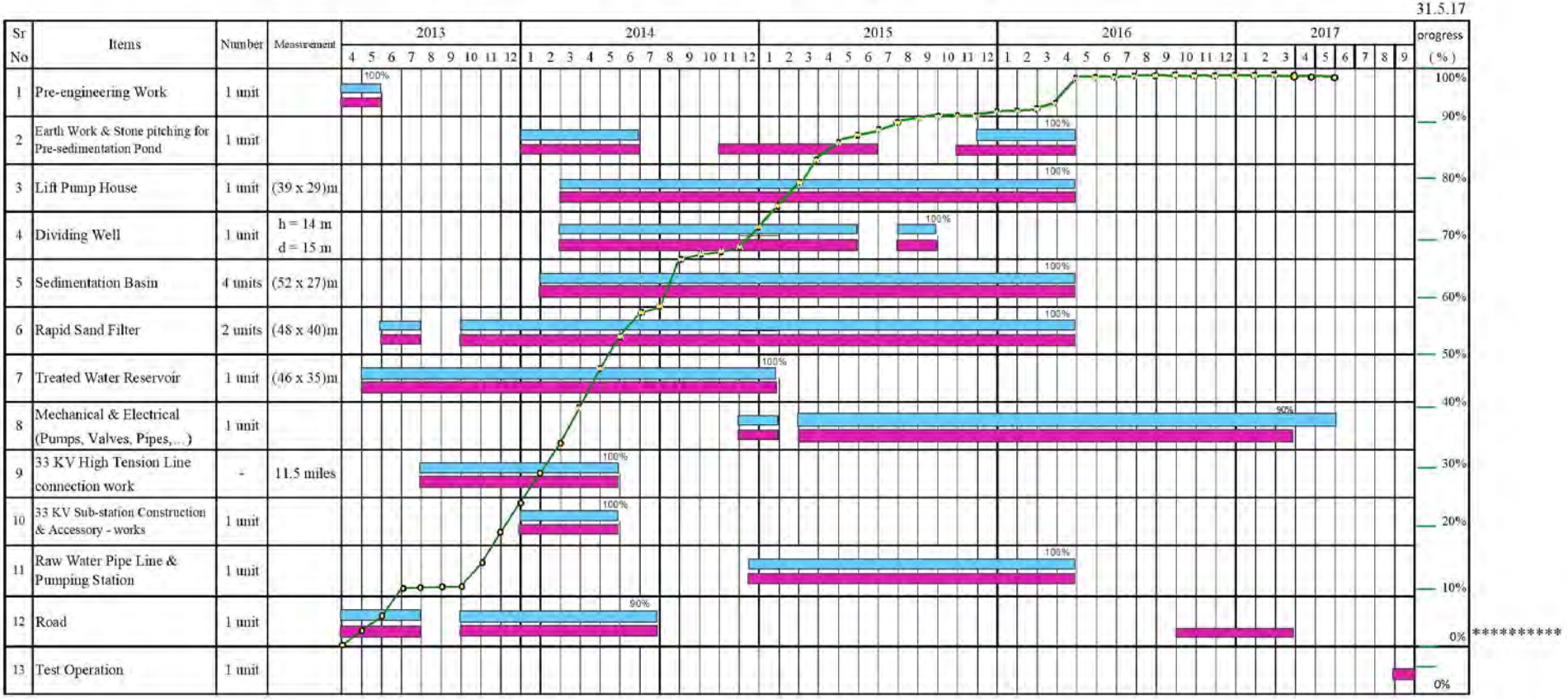
31.3.17



Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

31.5.17



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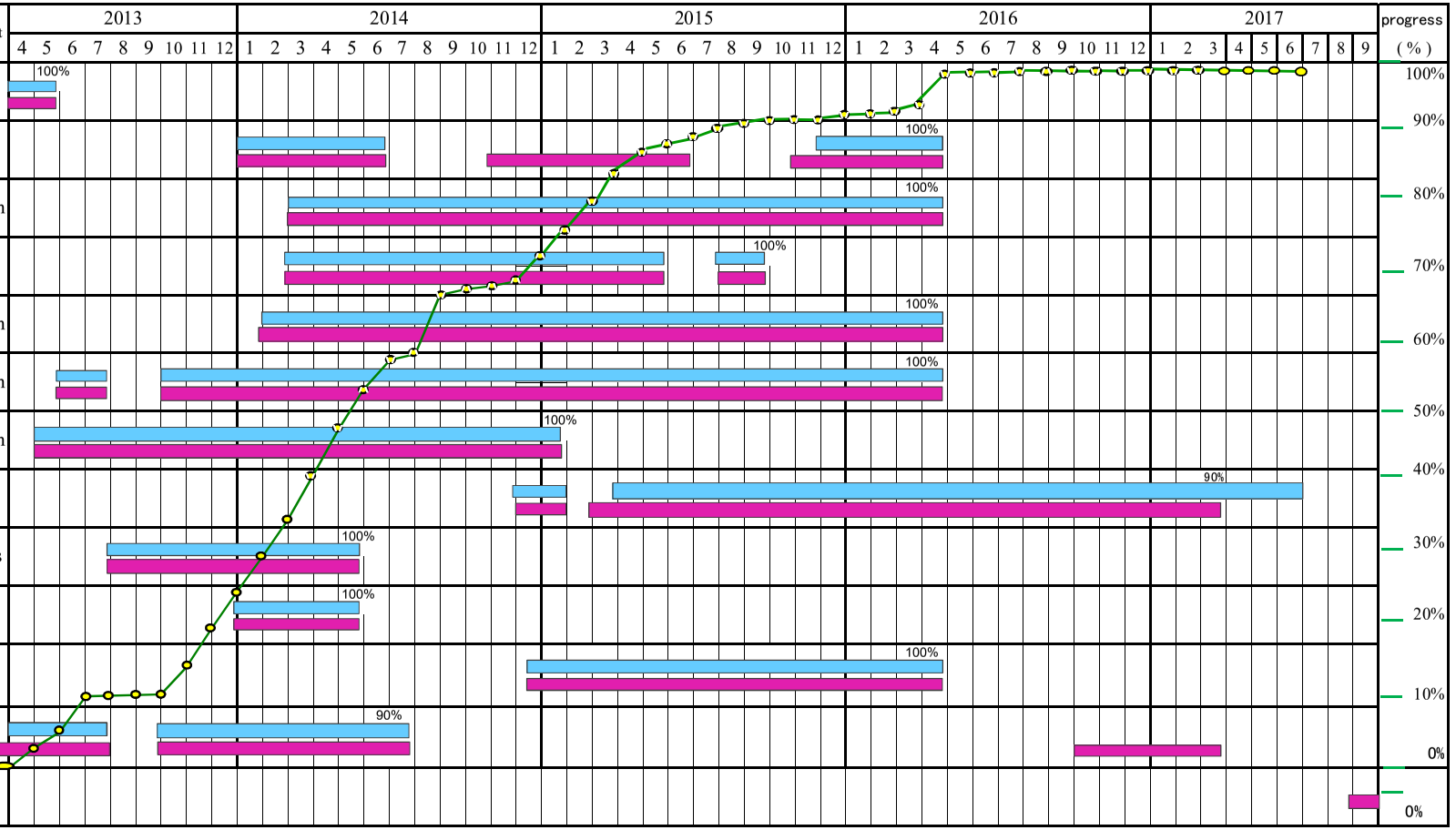
Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

30.6.17

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
3	Lift Pump House	1 unit	(39 x 29)m
4	Dividing Well	1 unit	h = 14 m d = 15 m
5	Sedimentation Basin	4 units	(52 x 27)m
6	Rapid Sand Filter	2 units	(48 x 40)m
7	Treated Water Reservoir	1 unit	(46 x 35)m
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Raw Water Pipe Line & Pumping Station	1 unit	
12	Road	1 unit	
13	Test Operation	1 unit	

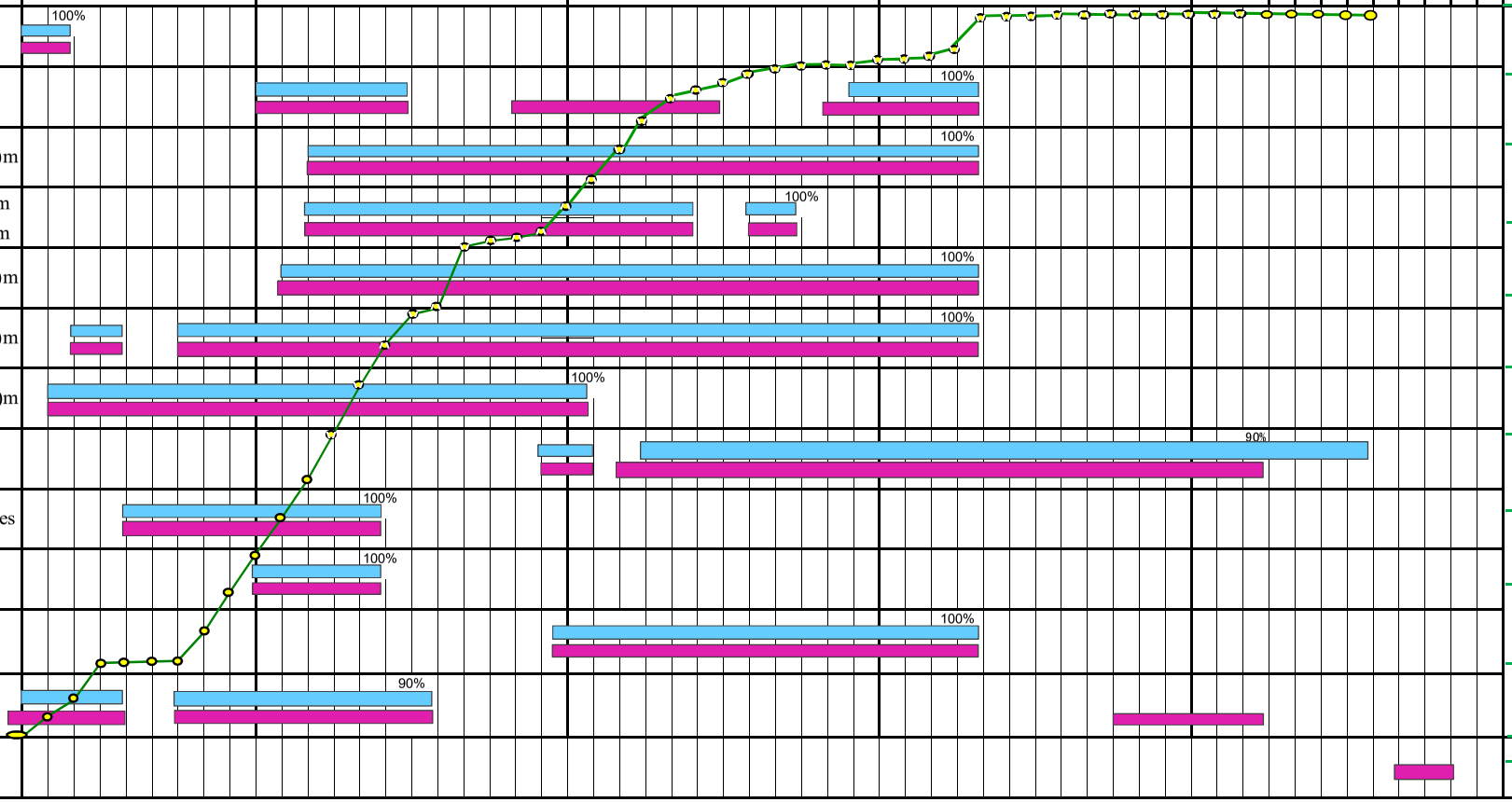


Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

31.7.17

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
3	Lift Pump House	1 unit	(39 x 29)m
4	Dividing Well	1 unit	h = 14 m d = 15 m
5	Sedimentation Basin	4 units	(52 x 27)m
6	Rapid Sand Filter	2 units	(48 x 40)m
7	Treated Water Reservoir	1 unit	(46 x 35)m
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Raw Water Pipe Line & Pumping Station	1 unit	
12	Road	1 unit	
13	Test Operation	1 unit	

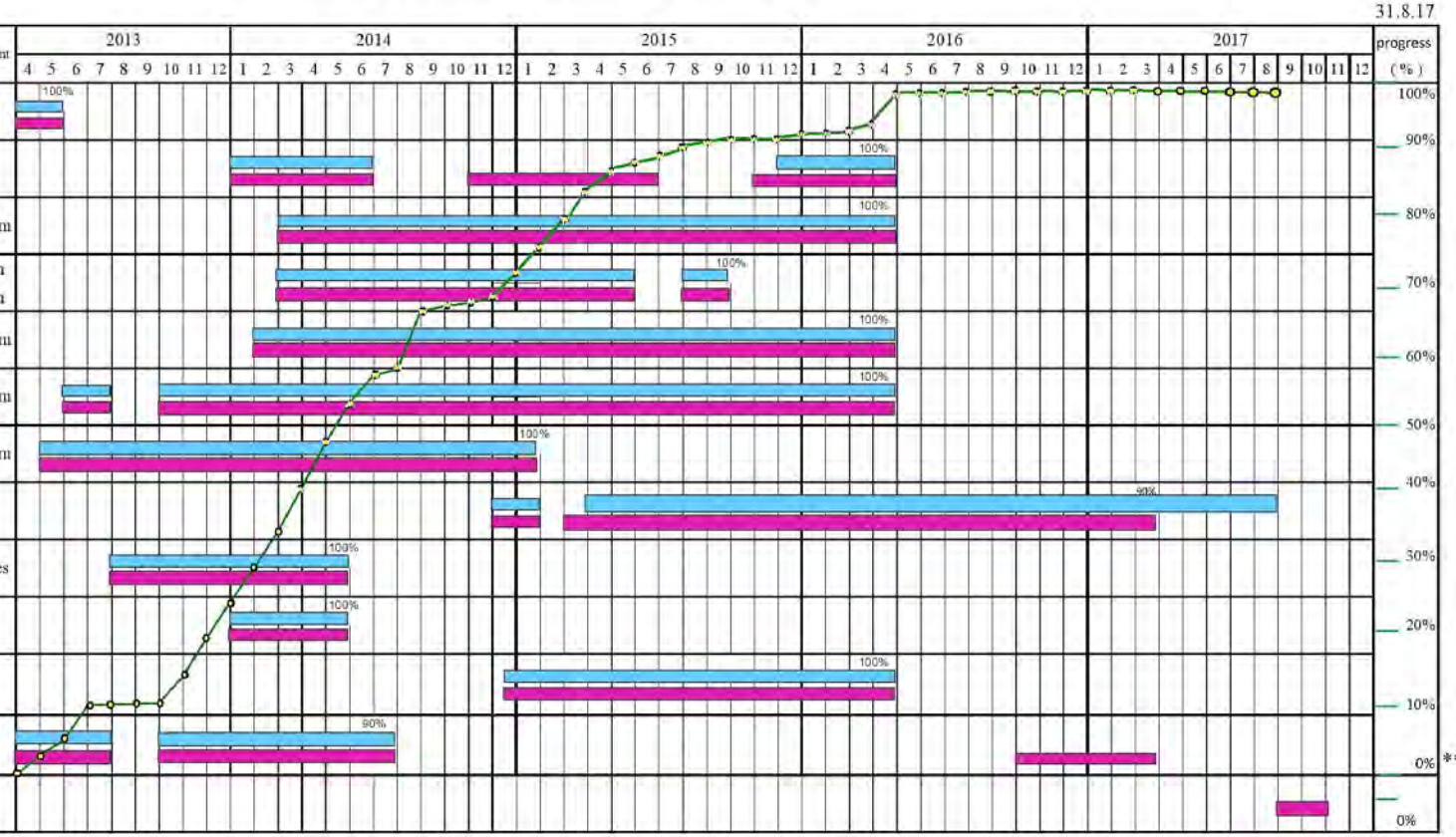


Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

31.8.17

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
3	Lift Pump House	1 unit	(39 x 29)m
4	Dividing Well	1 unit	h = 14 m d = 15 m
5	Sedimentation Basin	4 units	(52 x 27)m
6	Rapid Sand Filter	2 units	(48 x 40)m
7	Treated Water Reservoir	1 unit	(46 x 35)m
8	Mechanical & Electrical (Pumps, Valves, Pipes, ...)	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Raw Water Pipe Line & Pumping Station	1 unit	
12	Road	1 unit	
13	Test Operation	1 unit	

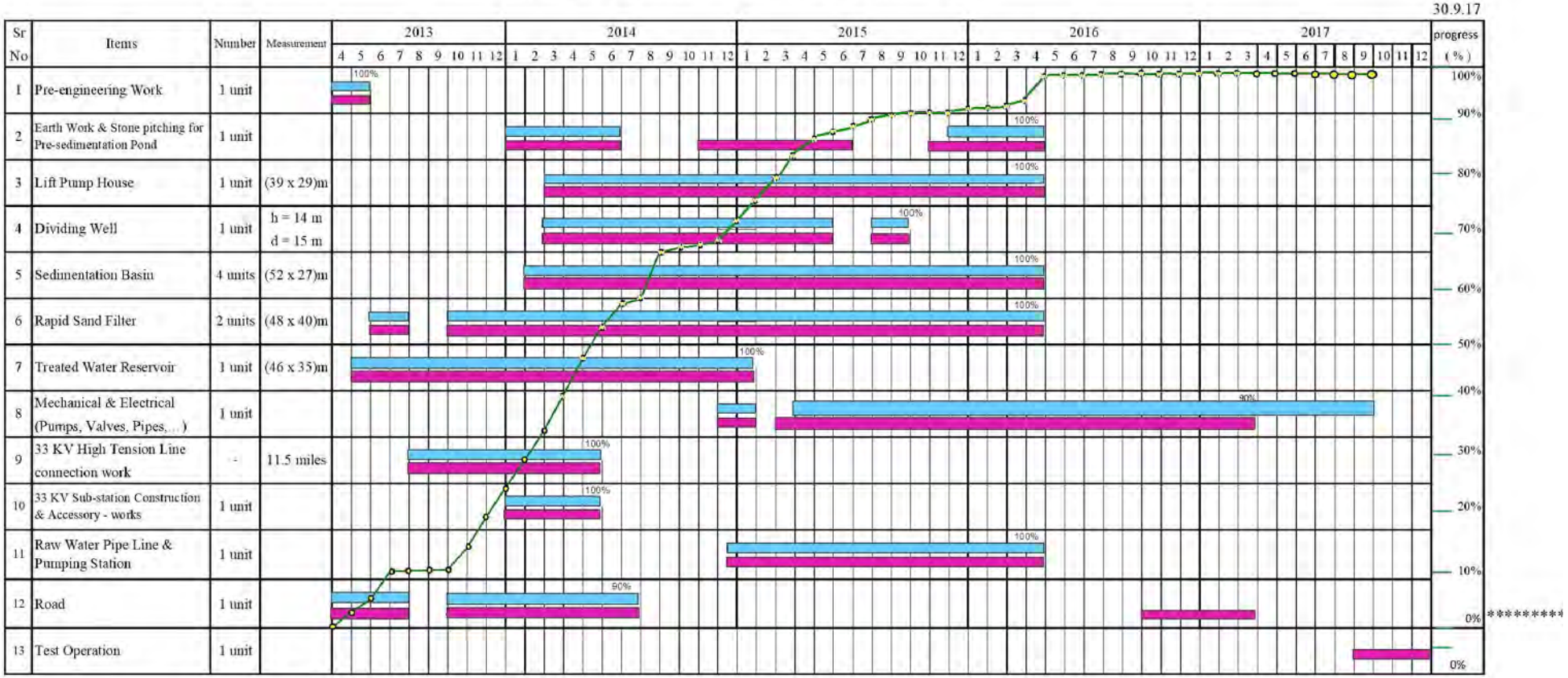


Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

30.9.17

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
3	Lift Pump House	1 unit	(39 x 29)m
4	Dividing Well	1 unit	h = 14 m d = 15 m
5	Sedimentation Basin	4 units	(52 x 27)m
6	Rapid Sand Filter	2 units	(48 x 40)m
7	Treated Water Reservoir	1 unit	(46 x 35)m
8	Mechanical & Electrical (Pumps, Valves, Pipes, ...)	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Raw Water Pipe Line & Pumping Station	1 unit	
12	Road	1 unit	
13	Test Operation	1 unit	

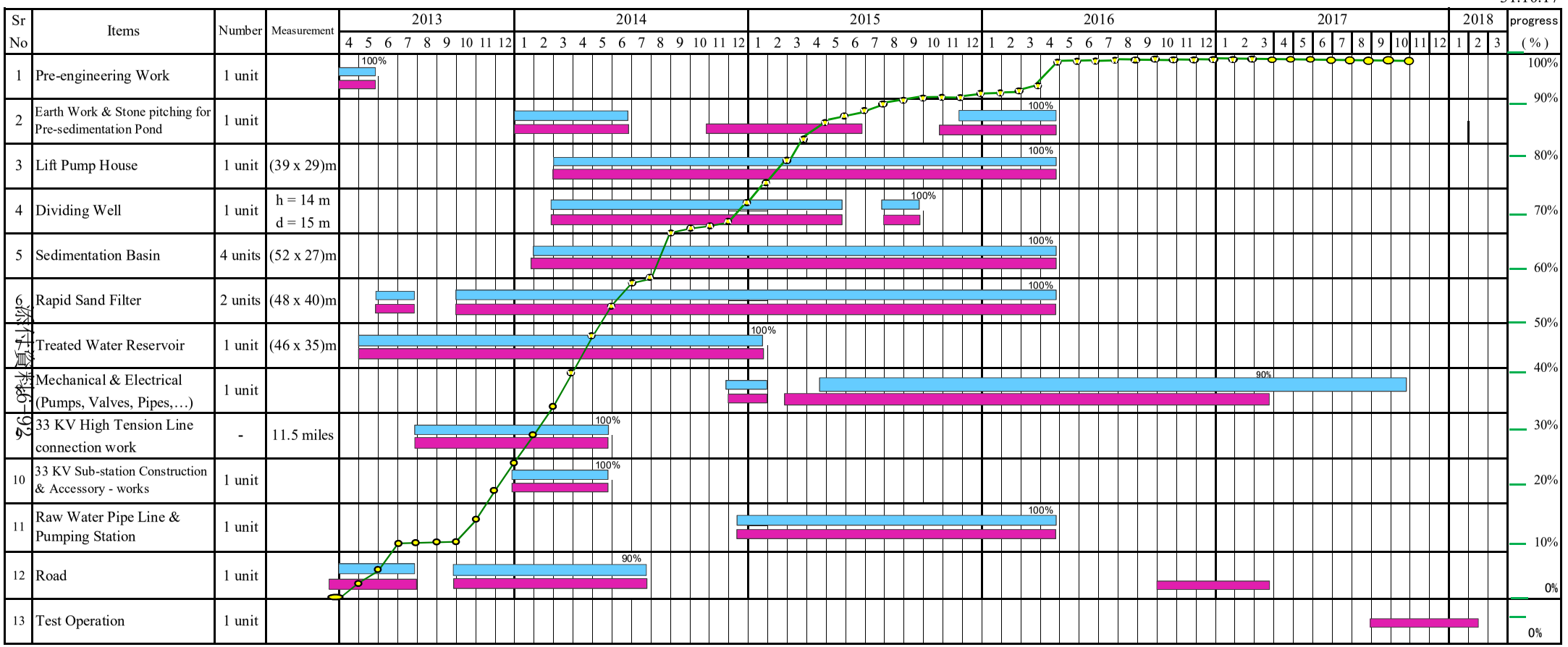


Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

31.10.17

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
3	Lift Pump House	1 unit	(39 x 29)m
4	Dividing Well	1 unit	h = 14 m d = 15 m
5	Sedimentation Basin	4 units	(52 x 27)m
6	Rapid Sand Filter	2 units	(48 x 40)m
7	Treated Water Reservoir	1 unit	(46 x 35)m
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Raw Water Pipe Line & Pumping Station	1 unit	
12	Road	1 unit	
13	Test Operation	1 unit	

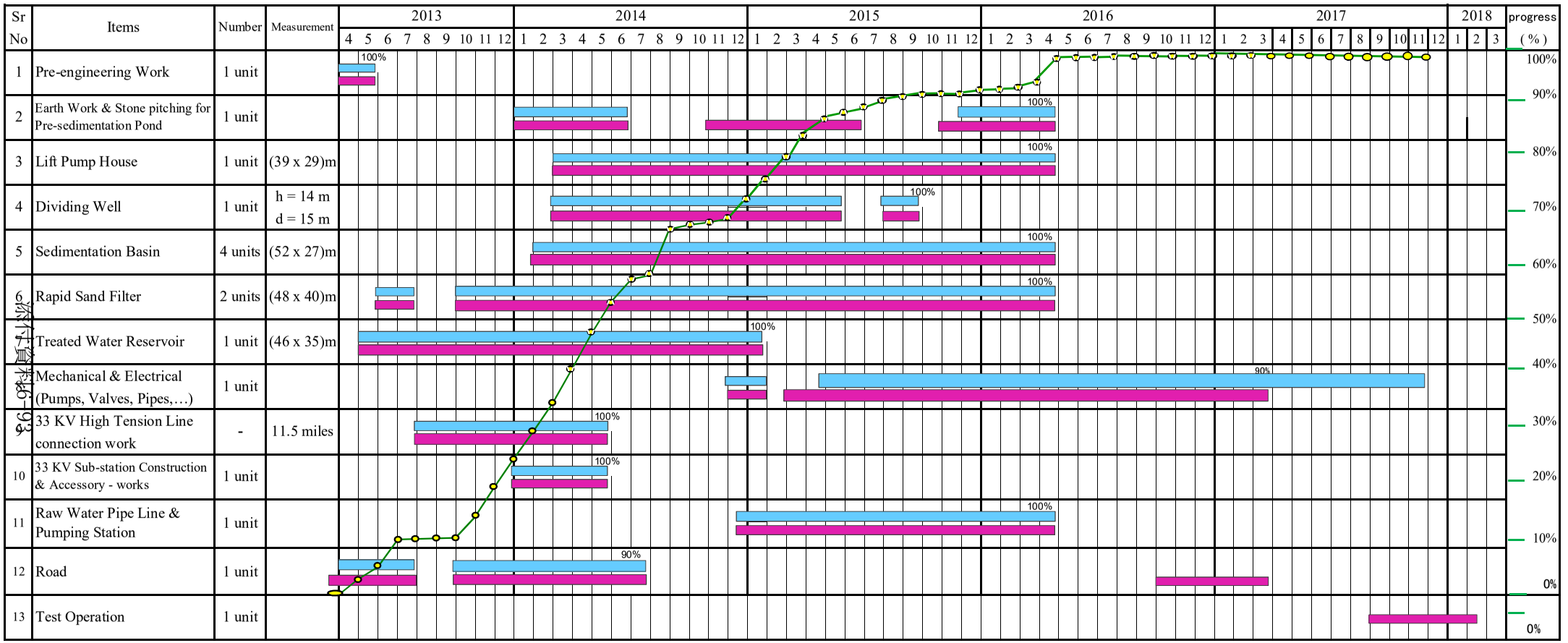


Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

30.11.17

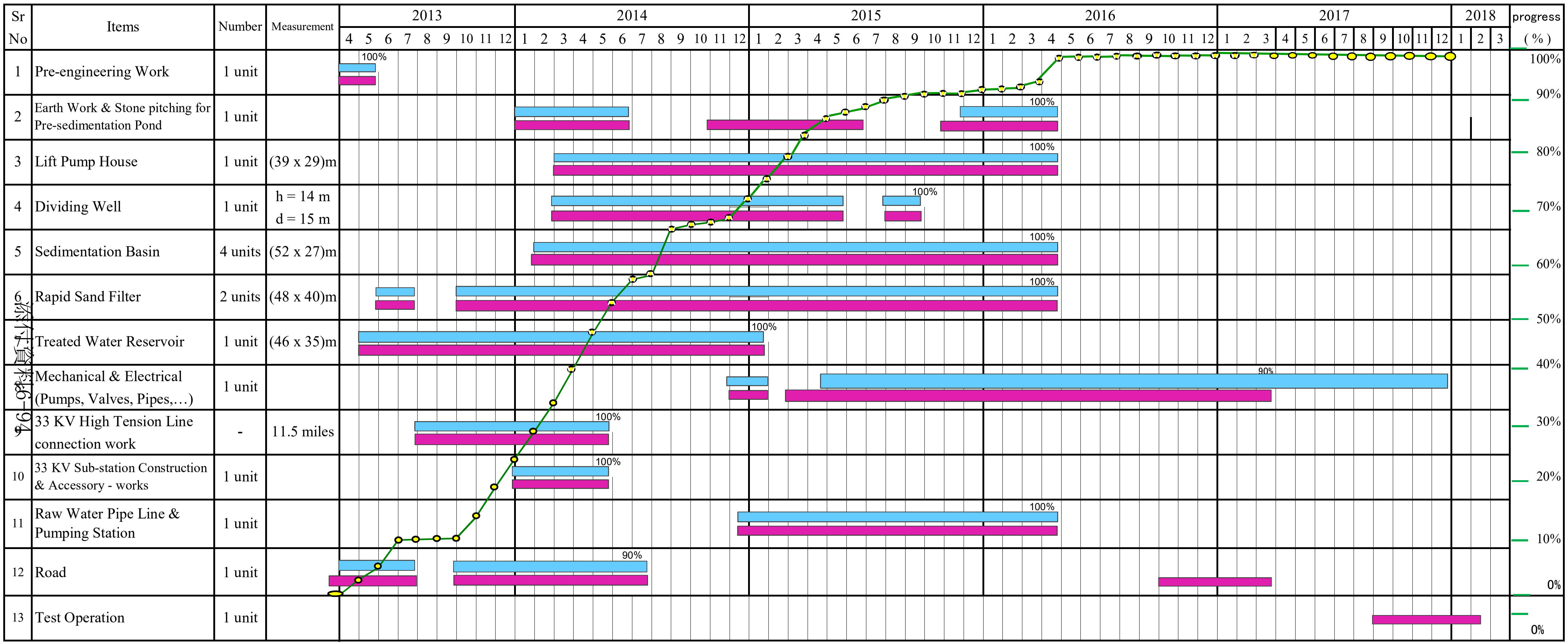
Sr No	Items	Number	Measurement	progress (%)
1	Pre-engineering Work	1 unit		100%
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit		100%
3	Lift Pump House	1 unit	(39 x 29)m	100%
4	Dividing Well	1 unit	h = 14 m d = 15 m	100%
5	Sedimentation Basin	4 units	(52 x 27)m	100%
6	Rapid Sand Filter	2 units	(48 x 40)m	100%
7	Treated Water Reservoir	1 unit	(46 x 35)m	100%
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit		90%
9	33 KV High Tension Line connection work	-	11.5 miles	100%
10	33 KV Sub-station Construction & Accessory - works	1 unit		100%
11	Raw Water Pipe Line & Pumping Station	1 unit		100%
12	Road	1 unit		90%
13	Test Operation	1 unit		0%



Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

31.12.17

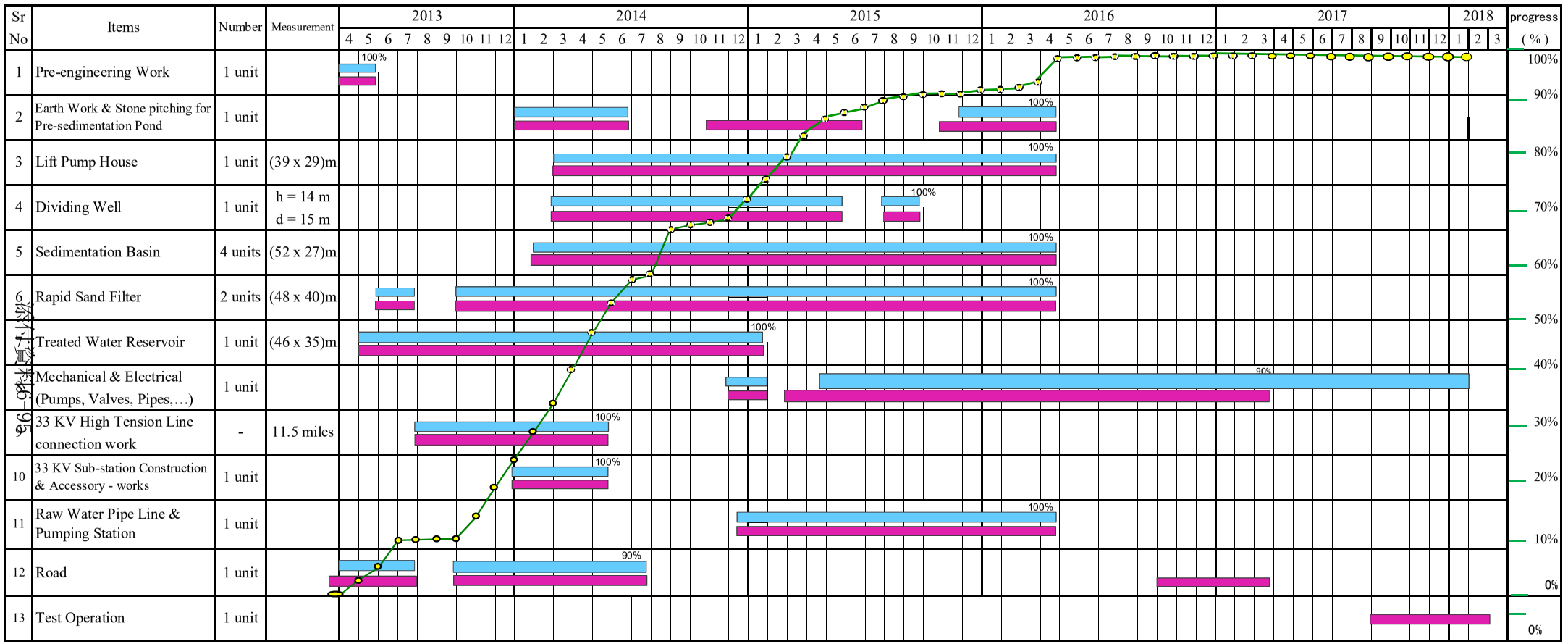


Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

31.1.18

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
3	Lift Pump House	1 unit	(39 x 29)m
4	Dividing Well	1 unit	h = 14 m d = 15 m
5	Sedimentation Basin	4 units	(52 x 27)m
6	Rapid Sand Filter	2 units	(48 x 40)m
7	Treated Water Reservoir	1 unit	(46 x 35)m
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Raw Water Pipe Line & Pumping Station	1 unit	
12	Road	1 unit	
13	Test Operation	1 unit	

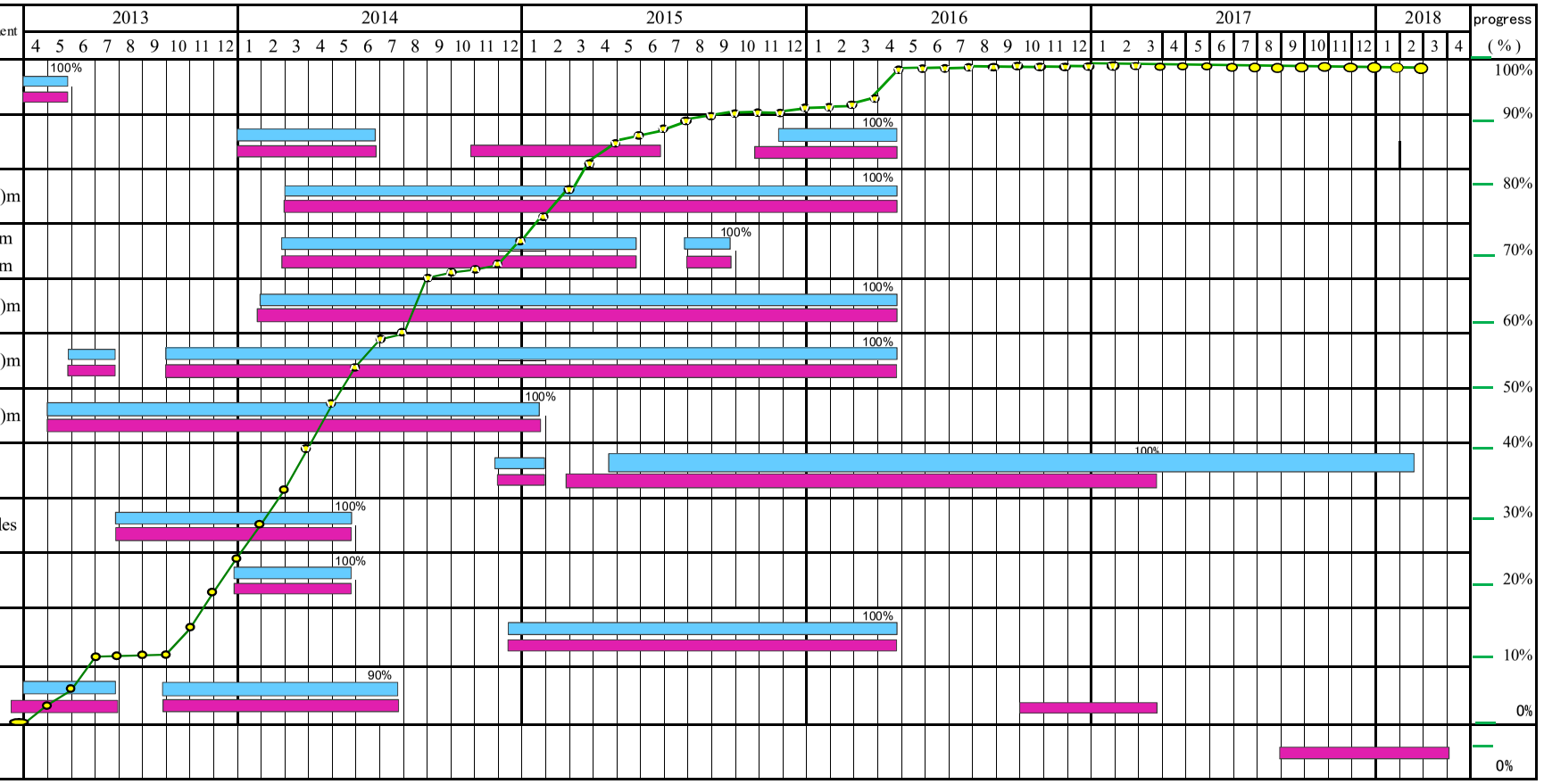


Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 98%)

28.2.18

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
3	Lift Pump House	1 unit	(39 x 29)m
4	Dividing Well	1 unit	h = 14 m d = 15 m
5	Sedimentation Basin	4 units	(52 x 27)m
6	Rapid Sand Filter	2 units	(48 x 40)m
7	Treated Water Reservoir	1 unit	(46 x 35)m
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Raw Water Pipe Line & Pumping Station	1 unit	
12	Road	1 unit	
13	Test Operation	1 unit	

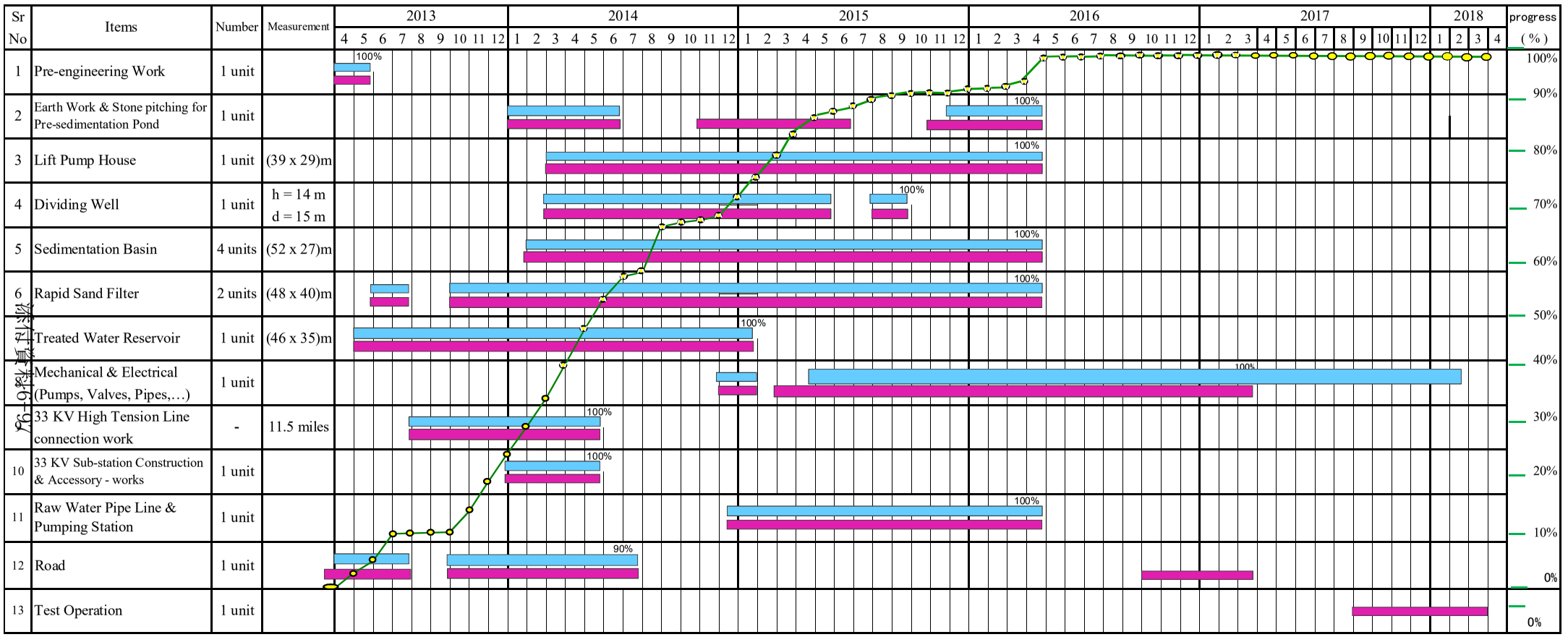


Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 99%)

31.3.18

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
3	Lift Pump House	1 unit	(39 x 29)m
4	Dividing Well	1 unit	h = 14 m d = 15 m
5	Sedimentation Basin	4 units	(52 x 27)m
6	Rapid Sand Filter	2 units	(48 x 40)m
7	Treated Water Reservoir	1 unit	(46 x 35)m
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Raw Water Pipe Line & Pumping Station	1 unit	
12	Road	1 unit	
13	Test Operation	1 unit	

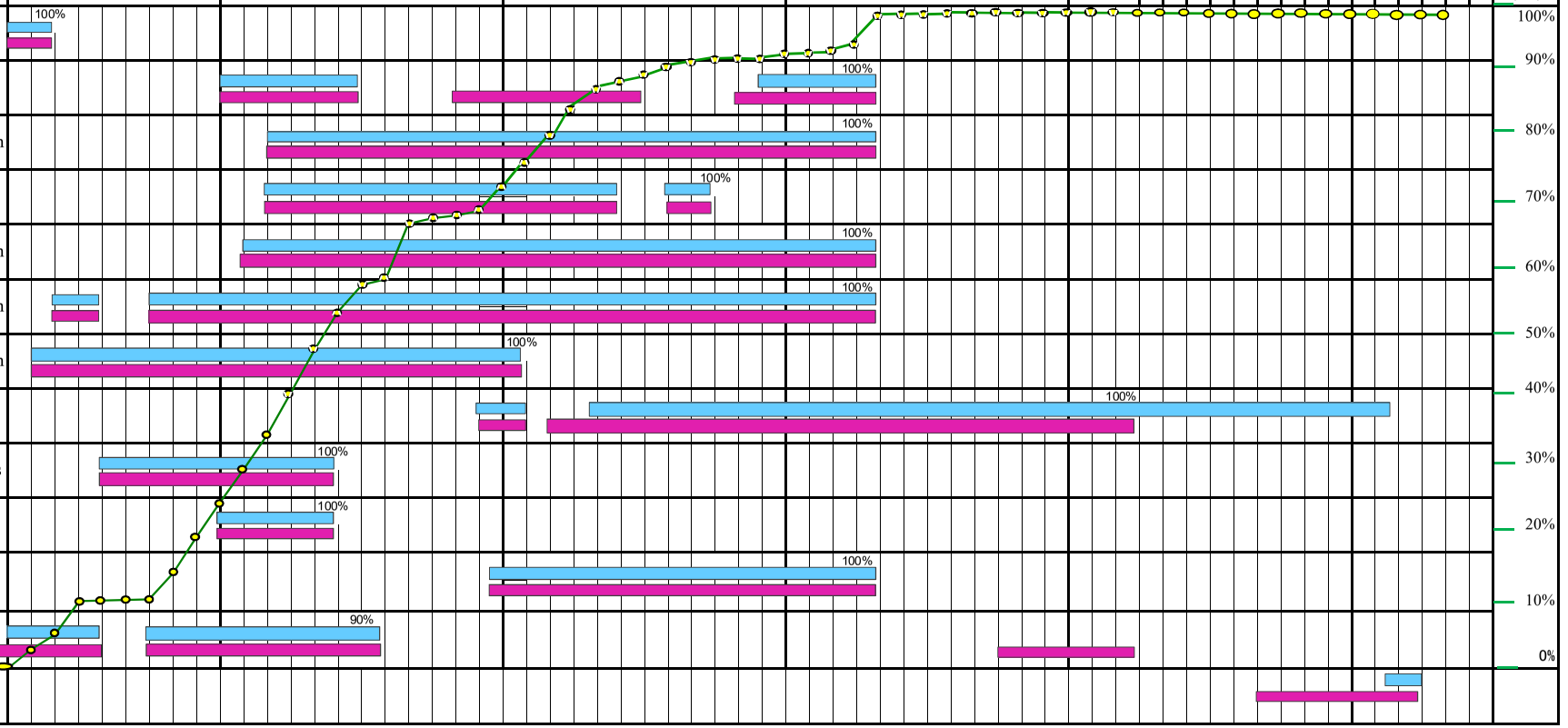


Lagunbyin Water Treatment Plant

Schedule & Workdone Chart (Total Workdone 99%)

30.4.18

Sr No	Items	Number	Measurement
1	Pre-engineering Work	1 unit	
2	Earth Work & Stone pitching for Pre-sedimentation Pond	1 unit	
3	Lift Pump House	1 unit	(39 x 29)m
4	Dividing Well	1 unit	h = 14 m d = 15 m
5	Sedimentation Basin	4 units	(52 x 27)m
6	Rapid Sand Filter	2 units	(48 x 40)m
7	Treated Water Reservoir	1 unit	(46 x 35)m
8	Mechanical & Electrical (Pumps, Valves, Pipes,…)	1 unit	
9	33 KV High Tension Line connection work	-	11.5 miles
10	33 KV Sub-station Construction & Accessory - works	1 unit	
11	Raw Water Pipe Line & Pumping Station	1 unit	
12	Road	1 unit	
13	Test Operation	1 unit	



MEMO

Date: 4 June 2014

To: Messrs. YCDC Head Office and Site Office

From: LWTP Advisory Team dispatched by JICA

Subject:

JICA Assisted Capacity Development on Lagunbyin Water Treatment Plant under Greater Yangon Water Supply Improvement Project implemented by YCDC

Safety – Temporary Electrical Circuit

Further to the tragic incident happened in Nyunghnabyin on 30 May 2014, may we remind you that Safety on Site is the paramount objective for all stakeholders including staff and labours.

In order to improve your safety standard of the project (Lagunbyin Water Treatment Construction) we would like to draw your attention particularly to the temporary electrical circuit on site. Because the power supply to electrical tools connected by cables on the ground without switch boards, circuit breakers or waterproof plugs in rainy season has always potential risks of short circuit to the bare feet workers. Hence a serious incident could be happened at any time.

Temporary electrical wiring in Lagunbyin
NOT acceptable

Switch board

Waterproof plugs
Recommended to use on site

We should appreciate very much if you could spend a time for the temporary power supply and improve the standard of Safety on Site.

Yours Faithfully,

Signed by Akiba J

_____

Akiba J

Safety Check Record for the Lot 1 Project

Pre TEST

Date; 6 Oct	Location;	Kind of works;
Checker; PyiKyaw Hein		Witness; Zin Min Latt

No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	not	Need for wearing
	(b) Wear	Neat for work or not	Not	Need
	(c) Footwear	Neat for work or not	Not	need
2	With Heavy Machineries Work : Earth Work			
	(a)Maintenance	Implementation or not for all machines	Good	
	(b)Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
3	Earth Work			
	(a)Inclination	Protection for erosion	Good	
	(b)Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
4	Spruce-up of site		Good	But some place are needed to clean nail and wood
5	Prevention measures for third party incident		Good	
6	Emergency case			
	Provision or not	Preparation of First aid kit	Not	Not only all of the site people haven't not but also each group have
		Emergency contact network	Not	They haven't show contact ph number , so , I was suggested prepare for this informatoion
7	Others			

Safety Check Record for the Lot 1 Project

Date;9-10-2014		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars ,	
Checker; PyiKyaw Hein			Witness; Zin Min Latt	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	not	Need for wearing
	(b) Wear	Neat for work or not	Not	Need
	(c) Footwear	Neat for work or not	Not	need
2	With Heavy Machineries Work : Earth Work			
	(a)Maintenance	Implementation or not for all machines	Good	
	(b)Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
3	Earth Work			
	(a)Inclination	Protection for erosion	Good	
	(b)Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
4	Spruce-up of site		Good	
5	Prevention measures for third party incident		Good	
6	Emergency case			
	Provision or not	Preparation of First aid kit	Not	Need to work that next week I suggest to make
		Emergency contact network	Not	Find not ready to show emergency contact
7	Others			

Safety Check Record for the Lot 1 Project

Date;13-10-2014		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars ,	
Checker; PyiKyaw Hein			Witness; Zin Min Latt	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	not	Need for wearing
	(b) Wear	Neat for work or not	Not	Need for wearing
	(c) Footwear	Neat for work or not	Not	Need for wearing
2	With Heavy Machineries Work : Earth Work			
	(a)Maintenance	Implementation or not for all machines	Good	
	(b)Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
3	Earth Work			
	(a)Inclination	Protection for erosion	Good	
	(b)Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
4	Spruce-up of site		Good	
5	Prevention measures for third party incident		Good	
6	Emergency case			
	Provision or not	Preparation of First aid kit	Not	Need to work that next week I suggest to make
		Emergency contact network	Not	Find not ready to show emergency contact
7	Others			

Safety Check Record for the Lagunbyin WTP Project

Date;20-10-2014		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars ,	
Checker; Pyi Kyaw Hein			Witness; Zin Min Latt	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Not	Need for wearing
	(b) Wear	Neat for work or not	Not	Need for wearing
	(c) Footwear	Neat for work or not	Not	Need for wearing
2	High place work	Height of position H= 8.45 m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Need	Need the platform for workers to safe and get workability
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Middle	Some place , nails are not safe to walk .
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Spruce-up of site		Good	
6	Prevention measures for third party incident		Good	
7	Emergency case			
	Provision or not	Preparation of First aid kit	Not	Need to work that next week I suggest to make it
		Emergency contact network	Not	Find not ready to show emergency contact
8	Others			

Safety Check Record for the Lagunbyin WTP Project

Date;29-10-2014		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars ,	
Checker; Pyi Kyaw Hein			Witness; Zin Min Latt	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Not	Need for wearing
	(b) Wear	Neat for work or not	Not	Need for wearing
	© Footwear	Neat for work or not	Not	Need for wearing
2	High place work	Height of position H= m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Improve	Some place are need to make platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Spruce-up of site		Good	
6	Prevention measures for third party incident		Good	
7	Emergency case			
	Provision or not	Preparation of First aid kit	Not	Need to work that next week I suggest to make it
		Emergency contact network	Not	Find not ready to show emergency contact
8	Others			

Safety Check Record for the Lagunbyin WTP Project

Date;7-11-2014		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars ,	
Checker; Pyi Kyaw Hein			Witness; Mr Tun Tun Hlaing	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Improve	Some people are need to wear
	(b) Wear	Neat for work or not	Not	Need for wearing
	© Footwear	Neat for work or not	Improve	Some people are need to wear
2	High place work	Height of position H= m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Improve	Some place are need to make platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Need	But they were made to safety in the site
6	Spruce-up of site		Good	
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Not	Need to work that next week I suggest to make it
		Emergency contact network	Not	Find not ready to show emergency contact
9	Others			

Safety Check Record for the Lagunbyin WTP Project

Date;11-11-2014		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars ,	
Checker; Pyi Kyaw Hein			Witness; Mr Tun Tun Hlaing	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Good	
	(b) Wear	Neat for work or not	Good	
	© Footwear	Neat for work or not	Good	
2	High place work	Height of position H= m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Improve	Some place are need to make platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Improve	But they were made to safety in the site
6	Spruce-up of site		Good	
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Not	Need to work that next week I suggest to make it
		Emergency contact network	Not	Find not ready to show emergency contact
9	Others			

Safety Check Record for the Lagunbyin WTP Project

Date;20-11-2014		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars ,	
Checker; Pyi Kyaw Hein			Witness; Mr Zin Min Latt	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Good	
	(b) Wear	Neat for work or not	Good	
	© Footwear	Neat for work or not	Good	
2	High place work	Height of position H= m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Improve	Some place are need to make platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Improve	But they were made to safety in the site
6	Spruce-up of site		Good	A few place are need to hold nail at formwork for safety
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Good	They were prepare of first aid kit
		Emergency contact network	Not	Find not ready to show emergency contact
9	Others			

Safety Check Record for the Lagunbyin WTP Project

Date;26-11-2014		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars ,	
Checker; Pyi Kyaw Hein			Witness; Mr Zin Min Latt	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Good	
	(b) Wear	Neat for work or not	Good	
	© Footwear	Neat for work or not	Good	Some workers are need to wear
2	High place work	Height of position H= m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Improve	Some place are need to make platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Improve	But they were made to safety in the site
6	Spruce-up of site		Good	Some places are need to hold nail at formwork for safety
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Good	
		Emergency contact network	Not	Find not ready to show emergency contact
9	Others			

Safety Check Record for the Lagunbyin WTP Project

Date;12 -12-2014		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars ,	
Checker; Pyi Kyaw Hein			Witness; Mr Zin Min Latt	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Good	
	(b) Wear	Neat for work or not	Good	
	© Footwear	Neat for work or not	Good	Some workers are need to wear
2	High place work	Height of position H= m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Good	They are making enough and good platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Improve	But they were made to safety in the site
6	Spruce-up of site		Good	
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Good	
		Emergency contact network	Not	Find not ready to show emergency contact
9	Others			

Safety Check Record for the Lagunbyin WTP Project

Date;19 -12-2014		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars ,	
Checker; Pyi Kyaw Hein			Witness; Mr Zin Min Latt	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Good	
	(b) Wear	Neat for work or not	Good	
	© Footwear	Neat for work or not	Good	Some workers are need to wear
2	High place work	Height of position H= m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Good	They are making enough and good platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Improve	But they were made to safety in the site
6	Spruce-up of site		Good	Some places are needed to clean weir nail
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Good	
		Emergency contact network	Not	Find not ready to show emergency contact
9	Others			

Safety Check Record for the Lagunbyin WTP Project

Date;23 -12-2014		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars ,	
Checker; Pyi Kyaw Hein			Witness; Mr Zin Min Latt	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Good	
	(b) Wear	Neat for work or not	Good	
	© Footwear	Neat for work or not	Good	Some workers are need to wear
2	High place work	Height of position H= m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Good	They are making enough and good platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Improve	But they were made to safety in the site
6	Spruce-up of site		Good	Some places are needed to clean weir nail and woods
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Good	
		Emergency contact network	Not	Find not ready to show emergency contact
9	Others			

Safety Check Record for the Lagunbyin WTP Project

Date;2 -1-2015		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars ,	
Checker; Pyi Kyaw Hein			Witness; Mr Tun Tun Hlaing	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Good	
	(b) Wear	Neat for work or not	Good	
	© Footwear	Neat for work or not	Good	Some workers are need to wear
2	High place work	Height of position H= m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Good	They are making enough and good platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Improve	But they were made to safety in the site
6	Spruce-up of site		Good	
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Good	
		Emergency contact network	Not	Find not ready to show emergency contact
9	Others			

Safety Check Record for the Lagunbyin WTP Project

Date;7 -1-2015		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars ,	
Checker; Pyi Kyaw Hein			Witness; Mr Tun Tun Hlaing	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Good	
	(b) Wear	Neat for work or not	Good	
	© Footwear	Neat for work or not	Good	Some workers are need to wear
2	High place work	Height of position H= m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Good	They are making enough and good platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	But now, they are met bed earth sliding in lift pump and they try to protect this sliding by good facilities
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Improve	But they were made to safety in the site
6	Spruce-up of site		Good	
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Good	
		Emergency contact network	Not	Find not ready to show emergency contact
9	Others			

Safety Check Record for the Lagunbyin WTP Project

Date;14 -1-2015		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars , safe for worker	
Checker; Pyi Kyaw Hein			Witness; Mr Zin Minn Latt	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Good	
	(b) Wear	Neat for work or not	Good	
	© Footwear	Neat for work or not	Good	Some workers are need to wear
2	High place work	Height of position H= m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Good	They are making enough and good platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	They have made enough sheet pile to protect erosion and they were stop erosion.
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Improve	But they were made to safety in the site
6	Spruce-up of site		Good	
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Good	
		Emergency contact network	Not	Find not ready to show emergency contact
9	Others			The temporary ladder is not safe to climb and down because it is not install railing.

Safety Check Record for the Lagunbyin WTP Project

Date;20 -1-2015		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars , safe for worker	
Checker; Pyi Kyaw Hein			Witness; Mr Zin Minn Latt	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Good	
	(b) Wear	Neat for work or not	Good	
	© Footwear	Neat for work or not	Good	Some workers are need to wear
2	High place work	Height of position H= m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Good	They are making enough and good platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Improve	But they were made to safety in the site
6	Spruce-up of site		Good	
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Good	
		Emergency contact network	Not	Find not ready to show emergency contact
9	Others			

Safety Check Record for the Lagunbyin WTP Project

Date;27 -1-2015		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars , safe for worker	
Checker; Pyi Kyaw Hein			Witness; Mr Zin Minn Latt	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Good	
	(b) Wear	Neat for work or not	Good	
	© Footwear	Neat for work or not	Good	Some workers are need to wear
2	High place work	Height of position H= m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Good	They are making enough and good platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Improve	Need some place to safe
6	Spruce-up of site		Good	
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Good	
		Emergency contact network	Not	Find not ready to show emergency contact
9	Others			Improve concreting work, re-bars and maintain work of structure and platform

Safety Check Record for the Lagunbyin WTP Project

Date;4-2-2015		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars , safe for worker	
Checker; Pyi Kyaw Hein			Witness; Mr Zin Minn Latt	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Good	
	(b) Wear	Neat for work or not	Good	
	© Footwear	Neat for work or not	Good	Some workers are need to wear
2	High place work	Height of position H= 10.5 and 8.4 m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Good	They are making enough and good platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Improve	Need some place to safe
6	Spruce-up of site		Good	
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Good	
		Emergency contact network	Not	Find not ready to show emergency contact
9	Others			Improve safety work in site and quality control

Safety Check Record for the Lagunbyin WTP Project

Date;10-2-2015		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars , safe for worker	
Checker; Pyi Kyaw Hein			Witness; Mr Than Win	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Good	
	(b) Wear	Neat for work or not	Good	
	© Footwear	Neat for work or not	Good	Some workers are need to wear
2	High place work	Height of position H= 10.5 and 8.4 m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Good	They are making enough and good platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Improve	Need some place to safe
6	Spruce-up of site		Good	
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Good	
		Emergency contact network	Not	
9	Others			Take care some place for formwork.

Safety Check Record for the Lagunbyin WTP Project

Date;17-2-2015		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars , safe for worker	
Checker; Pyi Kyaw Hein			Witness; Mr Saw That Naing Win	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Good	
	(b) Wear	Neat for work or not	Good	
	© Footwear	Neat for work or not	Good	Some workers are need to wear
2	High place work	Height of position H= 10.5 and 8.4 m		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Good	They are making enough and good platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Improve	Need some place to safe
6	Spruce-up of site		Good	
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Good	
		Emergency contact network	Not	
9	Others			

Safety Check Record for the Lagunbyin WTP Project

Date;24-2-2015		Location; Lagunbyin WTP	Kind of works; Formwork , re-bars , safe for worker	
Checker; Pyi Kyaw Hein			Witness; Mr Than Win, Mr Zin Minn Latt	
No.	Item	Check Point	Findings	Response/Comment
1	Worker's gear			
	(a) Helmet	Wearing or not	Good	
	(b) Wear	Neat for work or not	Good	
	© Footwear	Neat for work or not	Good	
2	High place work m	Height of position H= 10.5 and 8.4		
	(a) Workers	Appropriateness of skill.	Good	
	(b)Vertical works	Abidance of the prohibition works.	Good	They are making enough and good platform
	(c) Scaffolding	Appropriateness of facility.	Good	
	(d)Neglected materials	Spruce-up. (for fear of drop down from high place)	Good	
3	With Heavy Machineries Work : Earth Work			
	(a) Maintenance	Implementation or not for all machines	Good	
	(b) Handling tools	Appropriateness of the materials (strength enough)	Good	
	(c)Working position	Ground stability & appropriateness of the posturing	Good	
	(d)Working signal	Appropriateness of the cue between operator and worker	Good	
4	Earth Work			
	(a) Inclination	Protection for erosion	Good	
	(b) Dewatering	Working conditions	Good	
	-'do -	Wiring for pumps	Good	
5	Electrical work		Improve	Need some place to safe
6	Spruce-up of site		Good	
7	Prevention measures for third party incident		Good	
8	Emergency case			
	Provision or not	Preparation of First aid kit	Good	
		Emergency contact network	Not	
9	Others			

Maintenance Works before Full-Scale Operation

12 December 2016

JICA Advisor

1. Purpose

Lagunbyin Water Treatment Plant shall be maintained without operation for a few years until full-scale operation.

The maintenance works are to keep major equipment in better conditions until the Full-Scale operation.

2. Maintenance Works for Major Equipment

A. Mechanical Equipment

2-1. Intake Pump Station

a. Main Pump/Motor

(Pumps shall be disconnected from the motor to prevent damaging mechanical seals.)

No.	Maintenance Task	Weekly	Annually
1	Run all motor for 5-10 minutes	○	
2	Check/record motor current	○	
3	Check motor body/bearing temperature	○	
4	Check ventilation condition	○	
5	Check motor operating noise	○	
6	Check motor vibration	○	
7	Check any strange smell coming from the motor	○	
8	Check any damage/crack on the motor	○	
9	Check the tightening bolts of pump/motor		○
10	Check insulation resistance of motor		○
11	Make-up or replace grease of bearing		○
12	Check mechanical seal of pump		○

b. Motorized Butterfly Valve

No.	Maintenance Task	Weekly	Annually
1	Open/Close all Valves	○	
2	Check valve operating noise	○	
3	Check valve operating vibration	○	
4	Check actuator operating noise	○	
5	Check actuator operating vibration	○	
6	Check insulation resistance of valve actuator		○
7	Check Change-over mechanism of hand wheel		○

2-2. Lift Pump Station

a. Main Pump/Motor

(Pumps shall be disconnected from the motor to prevent damaging mechanical seals.)

No.	Maintenance Task	Weekly	Annually
1	Run all motor for 5-10 minutes	○	
2	Check/record motor current	○	
3	Check motor body/bearing temperature	○	
4	Check ventilation condition	○	
5	Check motor operating noise	○	
6	Check motor vibration	○	
7	Check any strange smell coming from the motor	○	
8	Check any damage/crack on the motor	○	
9	Check the tightening bolts of pump/motor		○
10	Check insulation resistance of motor		○
11	Make-up or replace grease of bearing		○
12	Check mechanical seal of pump		○

b. Motorized Butterfly Valve

No.	Maintenance Task	Weekly	Annually
1	Open/Close all Valves	○	
2	Check valve operating noise	○	
3	Check valve operating vibration	○	
4	Check actuator operating noise	○	
5	Check actuator operating vibration	○	
6	Check insulation resistance of valve actuator		○
7	Check Change-over mechanism of hand wheel		○

2-3. Filter

a. Motorized Butterfly Valve

No.	Maintenance Task	Weekly	Annually
1	Open/Close all Valves	○	
2	Check valve operating noise	○	
3	Check valve operating vibration	○	
4	Check actuator operating noise	○	
5	Check actuator operating vibration	○	
6	Check insulation resistance of valve actuator		○
7	Check Change-over mechanism of hand wheel		○

b. Backwash Water Pump

No.	Maintenance Task	Weekly	Annually
1	Run all pump/motor for 5-10 minutes	○	
2	Check/record motor current	○	
3	Check pump/motor bearing temperature	○	
4	Check pump/motor vibration	○	
5	Check pump/motor operating noise	○	
7	Check any strange smell coming from the motor	○	
6	Check insulation resistance of motor		○
7	Check grand packing of pump		○

c. Air Blower

(Discharge Valve and Air Valve shall be open for Air Blower operation to prevent Air Blower overloading.)

No.	Maintenance Task	Weekly	Annually
1	Open discharge valve	○	
2	Run all blower/motor for 5-10 minutes	○	
3	Check/record motor current	○	
4	Check blower/motor bearing temperature	○	
5	Check blower/motor vibration	○	
6	Check blower/motor operating noise	○	
7	Check leakage of lubricant	○	
8	Check any strange smell coming from the motor	○	
9	Check insulation resistance of motor		○
10	Check tension of V-belt		○
11	Clean suction air filter		○
12	Make-up or replace lubricant		○

B. Electrical Equipment

2-4. Intake Pump Station

a. Main Panel, Distribution Panel

No.	Maintenance Task	Weekly	Monthly	Annually
1	Exterior visual check	○		
2	Power indication lamp check	○		
3	Voltage and current check	○		
4	ACB status check	○		
5	Interior visual check		○	
6	MCCB status check		○	
7	Visual check of the wiring			○
8	Visual check of status of the devices			○

b. Pump Starter Panel

No.	Maintenance Task	Weekly	Monthly	Annually
1	Exterior visual check	○		
2	Power indication lamp check	○		
3	Voltage and current check	○		
4	Annunciator check	○		
5	Indication lamp check	○		
6	Interior visual check		○	
7	Visual check of the wiring			○
8	Visual check of status of the devices			○

c. Pump Control Panel

No.	Maintenance Task	Weekly	Monthly	Annually
1	Exterior visual check	○		
2	HMI Indication check	○		
3	Indication Lamp check	○		
4	Lamp test check		○	
5	Interior visual check		○	
6	Visual check of the wiring			○
7	Visual check of status of the devices			○

d. Flow Meter

No.	Maintenance Task	Weekly	Monthly	Annually
1	Exterior of Main Unit visual check	○		
2	Indication of Main Unit check	○		

3	Flow Rate Indication check (PCP)	○		
4	Exterior of Transducer (Sensor) visual check (FM Chamber)		○	
5	Check of Transducer installation			○

e. Water Level Switch (Pump Pit)

No.	Maintenance Task	Weekly	Monthly	Annually
1	Exterior of Electrode visual check	○		
2	Selector Switch check (Tank 1 or Tank 2)	○		

f. Water Level Transmitter (river)

No.	Maintenance Task	Weekly	Monthly	Annually
1	Exterior visual check	○		
2	Water Level Indication check (PCP)	○		

2-5. Lift Pump Station

a. Main Panel

No.	Maintenance Task	Weekly	Monthly	Annually
1	Exterior visual check	○		
2	Power indication lamp check	○		
3	Voltage and current check	○		
4	Main CB status check	○		
5	Interior visual check		○	
6	MCCB status check		○	
7	Visual check of the wiring			○
8	Visual check of status of the devices			○

b. Pump Starter Panel

No.	Maintenance Task	Weekly	Monthly	Annually
1	Exterior visual check	○		
2	Power indication lamp check	○		
3	Voltage and current check	○		
4	Annunciator check	○		
5	Indication lamp check	○		
6	Interior visual check		○	
7	Lamp test check		○	
8	Visual check of the wiring			○
9	Visual check of status of the devices			○

c. Distribution Panel

No.	Maintenance Task	Weekly	Monthly	Annually
1	Exterior visual check	○		
2	Power indication lamp check	○		
3	Main MCCB trip lamp			
4	Voltage and current check	○		
5	Interior visual check		○	
6	MCCB status check		○	
7	Visual check of the wiring			○
8	Visual check of status of the devices			○

d. Water Level Indicator Panel

No.	Maintenance Task	Weekly	Monthly	Annually
1	Exterior visual check	○		
2	Indication lamp check	○		
3	Selector Switch check	○		
4	Interior visual check		○	
5	Visual check of the wiring			○
6	Visual check of status of the devices			○

e. Water Level Switch

No.	Maintenance Task	Weekly	Monthly	Annually
1	Exterior visual check	○		

f. Common Item

No.	Maintenance Task	Weekly	Monthly	Annually
1	Measuring of grounding resistance			○
2	Measuring of insulation resistance for all the electrical equipment			○

2-6. Filter

a. 400V Main Panel

No.	Maintenance Task	Weekly	Monthly	Annually
1	Exterior visual check	○		
2	Power indication lamp check	○		
3	Voltage and current check	○		
4	Interior visual check		○	
5	MCCB status check		○	
6	Visual check of the wiring			○

7	Visual check of status of the devices			○

b. Valve Starter Panel

No.	Maintenance Task	Weekly	Monthly	Annually
1	Exterior visual check	○		
2	Power indication lamp check	○		
3	Voltage and current check	○		
4	Indication lamp & MCCB check	○		
5	Interior visual check		○	
6	Visual check of the wiring			○
7	Visual check of status of the devices of each unit			○

c. Filter Local Control Panel

No.	Maintenance Task	Weekly	Monthly	Annually
1	Exterior visual check	○		
2	Indication lamp check	○		
3	Interior visual check(including fan)		○	
4	Indication lamp check of PLC local unit		○	
5	Visual check of the wiring			○
6	Visual check of status of the devices			○

d. Filter Control Panel

No.	Maintenance Task	Weekly	Monthly	Annually
1	Exterior visual check	○		
2	Power indication lamp check	○		
3	Fault lamp, Emergency lamp check	○		
6	Interior visual check (including fan)		○	
7	Alarm check of LCD unit		○	
8	Indication lamp of PLC check		○	
9	Visual check of the wiring			○
10	Visual check of status of the devices			○

e. Common Item

No.	Maintenance Task	Weekly	Monthly	Annually
1	Measuring of grounding resistance			○
2	Measuring of insulation resistance for all the electrical equipment			○

Weekly Record (Mechanical - Sample)

1-1. Intake Pump Station

a. Main Pump/Motor

(Pumps are disconnected from the motor to prevent damaging mechanical seals.)

[Pump No.]

No.	Maintenance Task	Check	Comment
1	Run all motor for 5-10 minutes		
2	Check/record motor current		
3	Check motor body/bearing temperature		
4	Check ventilation condition		
5	Check motor operating noise		
6	Check motor vibration		
7	Check any strange smell coming from the motor		
8	Check any damage/crack on the motor		

b. Motorized Butterfly Valve

[Pump No.]

No.	Maintenance Task	check	Comment
1	Open/Close all Valves		
2	Check valve operating noise		
3	Check valve operating vibration		
4	Check actuator operating noise		
5	Check actuator operating vibration		

1-2. Lift Pump Station

c. Main Pump/Motor

(Pumps are disconnected from the motor to prevent damaging mechanical seals.)

[Pump No.]

No.	Maintenance Task	Check	Comment
1	Run all motor for 5-10 minutes		
2	Check/record motor current		
3	Check motor body/bearing temperature		
4	Check ventilation condition		
5	Check motor operating noise		
6	Check motor vibration		
7	Check any strange smell coming from the motor		
8	Check any damage/crack on the motor		

d. Motorized Butterfly Valve

[Pump No.]

No.	Maintenance Task	check	Comment
1	Open/Close all Valves		
2	Check valve operating noise		
3	Check valve operating vibration		
4	Check actuator operating noise		
5	Check actuator operating vibration		

1-3. Filter

a. Motorized Butterfly Valve

[Filter No.]

[Inlet Valve] **[Outlet Valve]**

No.	Maintenance Task	Check	Comment	Check	Comment
1	Open/Close all Valves				
2	Check valve operating noise				
3	Check valve operating vibration				
4	Check actuator operating noise				
5	Check actuator operating vibration				

[Air Valve] **[BW Water Valve]**

No.	Maintenance Task	Check	Comment	Check	Comment
1	Open/Close all Valves				
2	Check valve operating noise				
3	Check valve operating vibration				
4	Check actuator operating noise				
5	Check actuator operating vibration				

[Drain Valve] **[Others]**

No.	Maintenance Task	Check	Comment	Comment
1	Open/Close all Valves			
2	Check valve operating noise			
3	Check valve operating vibration			
4	Check actuator operating noise			
5	Check actuator operating vibration			

b. Backwash Water Pump

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Run all pump/motor for 5-10 minutes				
2	Check/record motor current				
3	Check pump/motor bearing temperature				
4	Check pump/motor vibration				
5	Check pump/motor operating noise				
7	Check any strange smell coming from the motor				

c. Air Blower

(Discharge Valve and Air Valve shall be open for Air Blower operation to prevent Air Blower overloading.)

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Open discharge valve/air valve				
2	Run all blower/motor for 5-10 minutes				
3	Check/record motor current				
4	Check blower/motor bearing temperature				
5	Check blower/motor vibration				
6	Check blower/motor operating noise				
7	Check leakage of lubricant				
8	Check any strange smell coming from the motor				

Weekly Record (Electrical – Sample)

2-1. Intake Pump Station

a. Main Panel, Distribution Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)		
2	Power indication lamp check		
3	Voltage and current check	R-S V S-T V T-S V R A S A T A	
4	ACB status check (On/Off/Trip)		

b. Pump Starter Panel

No.	Maintenance Task	No.1	No.2	No.3	No.4	No.5	No.6
1	Exterior visual check (Damage, Smell, etc.)						
2	Power indication lamp check (R-S-T)						
3	Voltage (S-T phase)	/ V	/ V	/ V	/ V	/ V	/ V
	Current (S- phase)	A	A	A	A	A	A
	Power	kW	kW	kW	kW	kW	kW
4	Annunciator check						
5	Indication lamp check (ON/OFF,OPEN/CLOSE,FAULT Indication)						
Comment							

c. Pump Control Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)		
2	HMI Indication		
3	Indication lamp check		

d. Flow Meter

No.	Maintenance Task	Result	Comment
1	Main Unit Exterior visual check (Damage, Indication, etc.)		
2	Flow Rate Indication check (PCP)		

e. Water Level Switch

No.	Maintenance Task	Result	Comment
1	Exterior of Electrode visual check		
2	Selector Switch check (Tank 1 or Tank 2)		

f. Water Level Transmitter

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)		
2	Water Level Indication on PCP HMI		

2-2. Lift Pump Station

a. Main Panel

No.	Maintenance Task	Result	Comment
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)		
2	MCCB status check (ON/OFF/TRIP)		

b. Pump Starter Panel

No.	Maintenance Task	No.1	No.2	No.3	No.4	No.5	No.6
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)						
2	Lamp test check						
Comment							

c. Distribution Panel

No.	Maintenance Task	Result	Comment
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)		
2	MCCB status check (ON/OFF/TRIP)		

d. Water Level Indicator Panel

No.	Maintenance Task	Result	Comment
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)		

2-3. Filter [No.]

a. 400V Main Panel

No.	Maintenance Task	Result	Comment
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)		
2	MCCB status check (ON/OFF/TRIP)		

b. Valve Starter Panel

No.	Maintenance Task	Result	Comment
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)		

c. Filter Local Control Panel

No.	Maintenance Task	1-1	1-2	1-3	1-4	1-5	1-6
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)						
2	Indication lamp check of PLC local unit						
No.	Maintenance Task	1-7	1-8	1-9	1-10	1-11	1-12
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)						
2	Indication lamp check of PLC local unit						
Comment							

2-2 Filter [No.]

a. 400V Main Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)		
2	Power indication lamp check		
3	Voltage and current check	R-S V S-T V T-S V R A S A T A	

b. Valve Starter Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)		
2	Power indication lamp check		
3	Voltage (S-T phase) Current (S- phase)	V A	
4	Indication lamp & MCCB check for each unit		

c. Filter Local Control Panel

No.	Maintenance Task	1-1	1-2	1-3	1-4	1-5	1-6
1	Exterior visual check (Damage, Smell, etc.)						
2	Indication lamp check (OPEN/CLOSE/FAULT, ON/OFF etc.)						
No.	Maintenance Task	1-7	1-8	1-9	1-10	1-11	1-12
1	Exterior visual check (Damage, Smell, etc.)						
2	Indication lamp check (OPEN/CLOSE/FAULT, ON/OFF etc.)						
Comment							

d. Filter Control Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)		
2	Power indication lamp check		
3	Fault lamp, Emergency lamp check		

e. Backwash Pump Starter Panel

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Exterior visual check (Damage, Smell, etc.)				
2	Power indication lamp check				
3	Voltage (S-T phase) Current (S- phase)	V A	V A	V A	

f. Backwash Pump Local Control Panel

No.	Maintenance Task	Result	comment
1	Exterior visual check		
2	Annunciator check		

g. Air Blower Starter Panel

No.	Maintenance Task	No.1	No.2	Comment
1	Exterior visual check (Damage, Smell, etc.)			
2	Power indication lamp check			
3	Voltage (S-T phase) Current (S- phase)	V A	V A	

h. Air Blower Local Control Panel

No.	Maintenance Task	Result	comment
1	Exterior visual check		
2	Annunciator check		

Capacity Development On Construction Of Lagunbyin Water Treatment Plant Under Greater Yangon Water Supply Improvement Project

Training course for Operation Work

Site Meeting Room (9-12-2016)

No	Name	Designation	Sign
	JICA		
1	Mr Koichi Naoi	Electrical Engineer	
2	Mr Shinichi Osaka	Mechanical Engineer	
3	Mr Pyi Kyaw Hein	Assistant Engineer	
	YCDC		
1	Mr Thit Lwin	SAE (Electrical Engineer)	
2	Mr Min Yan Htet	Work Check (Electrical)	
3	Mr Thet Yan Paing Oo	Work Check (Electrical)	
4	Mr Aung Ko Ko Win	SAE(Mechanical Engineer)	
5	Mr Aung Mor Kyaw	SAE(Mechanical Engineer)	
6	Mr Phone Thet Naing	SAE (Mechanical Engineer)	
	Contractors		
1	Mr Aung Si Hein	Han Sein Thant Co.,Ltd	
2	Mr Aye Lwin	*	
3	Mr Aung Kyaw Naing	Machinery & Solution	
4	Mr Tin Myint	*	
5	Mr Htay Aung	*	
6	Mr Win Hlaing	SWTS	
	Mr Min Thu Naing	*	

Date: 05 July 2017

Maintenance works before Full-Scale Operation

Weekly Record (Mechanical)

(1) Rapid Sand Filter (1)

Valve Panel	Inlet valves	Outlet valves	Drain valves	Backwash valves	Air valves
1	✓	✓	✓	✓	✓
2	✓	✓	✓	✓	✓
3	✓	✓	✗	✓	✓
4	✓	✓	✗	✓	✓
5	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓
7	✓	✓	✓	✓	✗
8	✓	✓	✓	✓	✗
9	✓	✓	✓	✓	✓
10	✓	✓	✓	✓	✓
11	✓	✓	✓	✓	✓
12	✓	✓	✓	✓	✓

Comment

(1) No (3 & 4) Drain valves cannot operate by control and manual.
(2) No (7 & 8) Air valves cannot operate by control and can operate by manual.

(3) Air Blower

No (2) Air blower has stopped just a moment after starting operate.

(2) Rapid Sand Filter (2)

Valve Panel	Inlet valves	Outlet valves	Drain valves	Backwash valves	Air valves
1	✓	✓	✓	✓	✓
2	✓	✗	✓	✓	✓
3	✓	✓	✗	✓	✓
4	✓	✓	✓	✓	✓
5	✓	✓	✓	✓	✗
6	✓	✓	✓	✓	✓
7	✓	✓	✓	✓	✗
8	✓	✓	✓	✓	✗
9	✓	✓	✓	✓	✓
10	✓	✗	✗	✓	✓
11	✓	✓	✓	✓	✓
12	✓	✓	✓	✓	✓

Comment

(1) In outlet main panel for no (2), switch is not operating to open and close.

(2) To open drain valve for no (3), it is showing fault signal and it cannot be operate by control and can only manual.

(3) In air valve of no (5), it can operate to open and it is not fully close which it can close half.

(4) In outlet valve of no (10), main panel is not showing open signal but it can operate of all.

(5) In outlet valve of no (11), it is not rotate shaft to operate open and close. In drain valve, main panel is showing open and close signals at the same time.

Date: 14 July 2017

Maintenance works before Full-Scale Operation

Weekly Record (Mechanical) (14-7-2017)

(1) Rapid Sand Filter (1)

Valve / Panel	Inlet valves	Outlet valves	Drain valves	Backwash valves	Air valves
1	✓	✓	✓	✓	✓
2	✓	✓	✓	✓	✓
3	✓	✓	✗	✓	✓
4	✓	✓	✓	✓	✓
5	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓
7	✓	✓	✓	✓	✓
8	✓	✓	✓	✓	✗
9	✓	✓	✓	✓	✓
10	✓	✓	✓	✓	✓
11	✓	✓	✓	✓	✓
12	✓	✓	✓	✓	✓

Comment

(1) No (3) Drain valves has not work shaft although motor operate.
(2) No (8) Air valves, it is not show signal (open and close) of limit switch.

(2)Rapid Sand Filter (2)

Valve Panel	Inlet valves	Outlet valves	Drain valves	Backwash valves	Air valves
1	✓	✓	✓	✓	✓
2	✓	✓	✓	✓	✓
3	✓	✓	✗	✓	✓
4	✓	✓	✓	✓	✓
5	✓	✓	✓	✓	✗
6	✓	✓	✓	✓	✓
7	✓	✓	✓	✓	✓
8	✓	✓	✓	✓	✓
9	✓	✓	✓	✓	✓
10	✓	✓	✓	✓	✓
11	✓	✗	✗	✓	✓
12	✗	✓	✓	✓	✓

Comment

(1) In no (3) drain valve, open signal has not shown on LFCP board of panel.

(2) In no (5) air valve, open signal has not shown on LFCP board of panel.

(3) In no (11) outlet valve, shaft has not worked.
In no (11) drain valve, open and close signal are showing together at the same time. It is need to check limit switch.

(4) In inlet valve no (12), although motor has operated but valve has not operated.

Date: 21 July 2017

Maintenance works before Full-Scale Operation

Weekly Record (Mechanical) (21-7-2017)

(1) Rapid Sand Filter (1)

Valve Panel	Inlet valves	Outlet valves	Drain valves	Backwash valves	Air valves
1	✓	✓	✓	✓	✗
2	✓	✓	✓	✓	✗
3	✓	✓	✗	✓	✓
4	✓	✓	✓	✓	✓
5	✓	✓	✓	✓	✗
6	✓	✓	✓	✓	✗
7	✓	✓	✓	✓	✓
8	✓	✓	✓	✓	✗
9	✓	✓	✓	✓	✓
10	✓	✓	✓	✓	✓
11	✓	✓	✓	✓	✓
12	✓	✓	✓	✓	✓

Comment

(1) No (1,2,5,6,8) air valves have not fully close and they have leakage.
(2) No (3) Drain valve has not work shaft although motor has work.
(3) No(5) Air valve also has not work shaft although motor has work.
(4) No (8) Air valve also has not work shaft although motor has work.
(5) Blower pump no (2) has breaker down while test operate and then it is operate reverse.

(2)Rapid Sand Filter (2)

Valve Panel	Inlet valves	Outlet valves	Drain valves	Backwash valves	Air valves
1	✓	✓	✓	✓	✗
2	✓	✓	✓	✓	✗
3	✗	✓	✗	✓	✓
4	✓	✓	✓	✓	✓
5	✓	✓	✓	✓	✗
6	✓	✓	✓	✗	✗
7	✓	✓	✓	✓	✗
8	✓	✓	✓	✓	✓
9	✓	✓	✓	✓	✗
10	✗	✓	✓	✓	✓
11	✓	✗	✗	✓	✗
12	✗	✓	✓	✓	✗

Comment

(1) No (1,2,6,7,9,11) air valves have not fully close.

(2) No (3,10) inlet valves have not fully close.

(3) No (12) inlet valve has not work although motor has done.

(4) No (11) outlet and drain valve has not work shaft although motor has done.

(5) No (3) drain valve has not work shaft although motor has done.

(6) No (5) air valve also has not work shaft although motor has done.

(7) No (6) back wash valve has not work shaft although motor has done.

(8) No (7) panel has not good situation of switch of blower, backwash and open and close signal are not showing.

(9) Backwash pump no (3) has not operate and it is showing signal of over load trip.

Date: 3 August 2017

Maintenance works before Full-Scale Operation

Weekly Record (Mechanical) (3-8-2017)

(1) Rapid Sand Filter (1)

Valve Panel	Inlet valves	Outlet valves	Drain valves	Backwash valves	Air valves
1	✓	✓	✓	✓	✓
2	✓	✓	✓	✓	✓
3	✓	✓	✗	✓	✓
4	✓	✓	✓	✓	✓
5	✓	✓	✓	✓	✗
6	✓	✓	✓	✓	✓
7	✓	✓	✗	✓	✓
8	✓	✓	✓	✓	✗
9	✓	✓	✓	✓	✓
10	✓	✓	✓	✓	✓
11	✓	✓	✓	✓	✓
12	✓	✓	✓	✓	✓

Comment

(1) No (3) drain valve has not work shaft although motor has work.
(2) No (7) drain valve on main board slide, indicator signal has shown always.
(3) No(5) Air valve also has not work shaft although motor has work.
(4) No (8) Air valve also has not work shaft although motor has work.
(5) LFCP breaker and FCP breaker have trip and also spare breaker have trip.

(2)Rapid Sand Filter (2)

Valve Panel	Inlet valves	Outlet valves	Drain valves	Backwash valves	Air valves
1	✓	✓	✓	✓	✓
2	✓	✓	✓	✓	✓
3	✗	✓	✗	✓	✓
4	✓	✓	✓	✓	✓
5	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓
7	✓	✓	✓	✓	✓
8	✓	✓	✓	✓	✓
9	✓	✓	✓	✓	✓
10	✓	✓	✓	✓	✓
11	✓	✓	✓	✓	✓
12	✓	✓	✓	✓	✓

Comment

(1) No (3) drain valve, pinion has damage and so the contractor ordered new one from local industrial zone.

(2) No (3) inlet valve, rubber seal has not good situation and so, it is need to replace new one.

(3) No (11) drain valve, limit switch has not worked well and so, the contractor has done repair.

(4) Back wash pump no (3) has often over load trip.

(5) Blower no (1) has down breaker.

(6) Blower no (2) has appeared sound. YCDC contacted Han Sein Thant to check again.

Date: 14 August 2017

Maintenance works before Full-Scale Operation

Weekly Record (Mechanical) (14-8-2017)

(1) Rapid Sand Filter (1)

Valve / Panel	Inlet valves	Outlet valves	Drain valves	Backwash valves	Air valves
1	✓	✓	✓	✓	✓
2	✓	✓	✓	✓	✓
3	✓	✓	✓	✓	✓
4	✓	✓	✓	✓	✓
5	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓
7	✓	✓	✓	✓	✓
8	✓	✓	✓	✓	✓
9	✓	✓	✓	✓	✓
10	✓	✓	✓	✓	✓
11	✓	✓	✓	✓	✓
12	✓	✓	✓	✓	✓

Comment

(1) Breakers in Main Panel have not good situation and these are trip.

(2)Rapid Sand Filter (2)

Valve Panel	Inlet valves	Outlet valves	Drain valves	Backwash valves	Air valves
1	✓	✓	✓	✓	✓
2	✓	✓	✓	✓	✓
3	✗	✓	✓	✓	✓
4	✓	✓	✓	✓	✓
5	✓	✓	✓	✓	✓
6	✓	✓	✓	✓	✓
7	✓	✓	✓	✓	✓
8	✓	✓	✓	✓	✓
9	✓	✓	✓	✓	✓
10	✓	✓	✓	✓	✓
11	✓	✓	✓	✓	✓
12	✓	✓	✓	✓	✓

Comment

(1)No (3) inlet valve, rubber seal has not good situation and so, it is need to replace new one.

(1) Blower no (1) has down breaker when start to operate.

(2) Blower no (2) has sound appear inside. YCDC contacted Han Sein Thant to check again.

Weekly Record (Mechanical) (27-10-2017)

1-1. Lift Pump Station

a. Main Pump/Motor

(Pumps are disconnected from the motor to prevent damaging mechanical seals.)

[Pump No.]

No.	Maintenance Task	Check	Comme
1	Run all motor for 5-10 minutes	1,2,3,4,5&6	No-1 pump over start fault, No-3 pump fault & ELR trip, No-5 pump fault
2	Check/record motor current	〃	175 A
3	Check motor body/bearing temperature	〃	Normal
4	Check ventilation condition	〃	Normal
5	Check motor operating noise	〃	Normal
6	Check motor vibration	〃	Normal
7	Check any strange smell coming from the motor	〃	Normal
8	Check any damage/crack on the motor	〃	Normal

b. Motorized Butterfly Valve

[Pump No.]

No.	Maintenance Task	check	Comment
1	Open/Close all Valves	1,2,3,4,5&6	Normal
2	Check valve operating noise	〃	Normal
3	Check valve operating vibration	〃	Normal
4	Check actuator operating noise	〃	Normal
5	Check actuator operating vibration	〃	Normal

2-1. Filter

a. Motorized Butterfly Valve

[Filter No. 2]

[Inlet Valve] **[Outlet Valve]**

No.	Maintenance Task	Check	Comment	Check	Comment
1	Open/Close all Valves	1 to 12	-	1 to 12	No-12 has not operate shaft
2	Check valve operating noise	〃	No-7 has appeared noise sound	〃	No-8 has appeared noise sound
3	Check valve operating vibration	〃	No-8 has moving base	〃	No-9 has moving base
4	Check actuator operating noise	〃	Normal	〃	Normal
5	Check actuator operating vibration	〃	Normal	〃	Normal

[Air Valve] **[BW Water Valve]**

No.	Maintenance Task	Check	Comment	Check	Comment
1	Open/Close all Valves	1 to 12	No-12 fault signal	1 to 12	Normal
2	Check valve operating noise	〃		〃	
3	Check valve operating vibration	〃		〃	
4	Check actuator operating noise	〃		〃	
5	Check actuator operating vibration	〃		〃	

[Drain Valve] **[Others]**

No.	Maintenance Task	Check	Comment	Comment
1	Open/Close all Valves	1 to 12	No-9 ,12 has fault signal	
2	Check valve operating noise		No-7 has appear noise sound from shaft	
3	Check valve operating vibration		No-8 has moving base	
4	Check actuator operating noise		Normal	
5	Check actuator operating vibration		Normal	

b. Backwash Water Pump

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Run all pump/motor for 5-10 minutes	Normal	Normal	Normal	
2	Check/record motor current	23A	23A	23A	
3	Check pump/motor bearing temperature	Normal	Normal	Normal	
4	Check pump/motor vibration	Normal	Normal	Normal	
5	Check pump/motor operating noise	Normal	Normal	Normal	
7	Check any strange smell coming from the motor	Normal	Normal	Normal	

c. Air Blower

(Discharge Valve and Air Valve shall be open for Air Blower operation to prevent Air Blower overloading.)

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Open discharge valve/air valve				When Blower has started run , Ampere is increase and MCCB trip.
2	Run all blower/motor for 5-10 minutes				
3	Check/record motor current				
4	Check blower/motor bearing temperature				
5	Check blower/motor vibration				
6	Check blower/motor operating noise				
7	Check leakage of lubricant				
8	Check any strange smell coming from the motor				

Weekly Record (Electrical)

1-1.Lift Pump Station

a. Main Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal	
2	Power indication lamp check		
3	Voltage and current check	R-S 420 V S-T 420 V R - A S - A T - A	It is need to check Ammeter.
4	Main CB status check (On/Off/Trip)		

b. Pump Starter Panel

No.	Maintenance Task	No.1	No.2	No.3	No.4	No.5	No.6
1	Exterior visual check (Damage, Smell, etc.)	Normal	Normal	Normal	Normal	Normal	Normal
2	Power indication lamp check (R-S-T)	S-phase& P-Lamp has not shown signal	S-phase& P-Lamp has not shown signal	S-phase& P-Lamp has not shown signal	S-phase& P-Lamp has not shown signal	S-phase& P-Lamp has not shown signal	S-phase& P-Lamp has not shown signal
3	Voltage (S-T phase) Current (S- phase)	- V - A	420 V 175 A	- V - A	420 V 175 A	- V - A	420 V 175 A
4	Announciator check	Normal	Normal	Normal	Normal	Normal	Normal
5	Indication lamp check (ON/OFF,OPEN/CLOSE,POWER ON)	Normal	Normal	Normal	Normal	Normal	Normal
Comment		Cannot run because has fault		Cannot run because has fault		Cannot run because has fault	

c. Distribution Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)	N	
2	Power indication lamp check	S.Phase pilot lamp has not shown signal	
3	Voltage (S-T phase) Current (S- phase)	420 V - A	It is need to check Ammeter .
4	Main MCCB trip lamp		

d. Water Level Indicator Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal	
2	Indication lamp check (HWL,LWL,LLWL)	Normal	
3	Selector Switch check (Tank 1 or Tank 2)	Normal	

e. Water Level Switch

No.	Maintenance Task	Result	Comment
1	Exterior visual check	Normal	

2-1 Filter [No. 2]

a. 400V Main Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal	
2	Power indication lamp check	Normal	
3	Voltage and current check	R-S 420V S-T 420 V T-S 420 V R 0 A S 0 A T 0 A	

b. Valve Starter Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal	
2	Power indication lamp check	Normal	
3	Voltage (S-T phase) Current (S- phase)	420 V 0 A	
4	Indication lamp & MCCB check for each unit	Normal	

c. Filter Local Control Panel

No.	Maintenance Task	1-1	1-2	1-3	1-4	1-5	1-6
1	Exterior visual check (Damage, Smell, etc.)	Normal	Normal	Normal	Normal	Normal	Normal
2	Indication lamp check (OPEN/CLOSE/FAULT, ON/OFF etc.)	Normal	Normal	Normal	Normal	Normal	Normal
No.	Maintenance Task	1-7	1-8	1-9	1-10	1-11	1-12
1	Exterior visual check (Damage, Smell, etc.)	Normal	Normal	Normal	Normal	Normal	Normal
2	Indication lamp check (OPEN/CLOSE/FAULT, ON/OFF etc.)	Normal	Normal	Normal	Normal	Normal	Normal
Comment							

d. Filter Control Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal	
2	Power indication lamp check	Normal	
3	Fault lamp, Emergency lamp check	Common fault	

e. Backwash Pump Starter Panel

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal			
2	Power indication lamp check	Normal			
3	Voltage (S-T phase) Current (S- phase)	420 V 23 A	V A	V A	

f. Backwash Pump Local Control Panel

No.	Maintenance Task	Result	comment
1	Exterior visual check	Normal	
2	Announciator check	Normal	

g. Air Blower Starter Panel

No.	Maintenance Task	No.1	No.2	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal	Normal	
2	Power indication lamp check	Normal	Normal	
3	Voltage (S-T phase) Current (S- phase)	420 V A	420 V A	YCDC cannot see Ampere because Ampere has increased sudden and has done MCCB trip.

h. Air Blower Local Control Panel

No.	Maintenance Task	Result	comment
1	Exterior visual check	Normal	
2	Announciator check	Normal	

3-1. Filter

a. Motorized Butterfly Valve

[Filter No. 1]

***** YCDC has been doing installation work of nozzle strainers and so, they cannot doing back wash pump maintenance test operation for Filter No.1**

[Inlet Valve] **[Outlet Valve]**

No.	Maintenance Task	Check	Comment	Check	Comment
1	Open/Close all Valves	1 to 12	Normal	1 to 12	Normal
2	Check valve operating noise	〃	Normal	〃	Normal
3	Check valve operating vibration	〃	Normal	〃	Normal
4	Check actuator operating noise	〃	Normal	〃	Normal
5	Check actuator operating vibration	〃	Normal	〃	Normal

[Air Valve] **[BW Water Valve]**

No.	Maintenance Task	Check	Comment	Check	Comment
1	Open/Close all Valves	1 to 12	No-8 fault signal	1 to 12	Normal
2	Check valve operating noise	〃	Normal	〃	Normal
3	Check valve operating vibration	〃	Normal	〃	Normal
4	Check actuator operating noise	〃	Normal	〃	Normal
5	Check actuator operating vibration	〃	Normal	〃	Normal

[Drain Valve] **[Others]**

No.	Maintenance Task	Check	Comment	Comment
1	Open/Close all Valves	1 to 12	Normal	Although motors of valves can operate, Outlet valves (1,7,9,10,11,12), Inlet valves (2,6,8,9), Drain valves (5,6,8,12) and Air valves (9,11) are not fully close and they have leakage.
2	Check valve operating noise		No-6 drain valve has appeared sound	
3	Check valve operating vibration		No-7 drain valve shaft has moving	
4	Check actuator operating noise		Normal	
5	Check actuator operating vibration		Normal	

b. Backwash Water Pump

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Run all pump/motor for 5-10 minutes	-	-	-	
2	Check/record motor current	-	-	-	
3	Check pump/motor bearing temperature	-	-	-	
4	Check pump/motor vibration	-	-	-	
5	Check pump/motor operating noise	-	-	-	
7	Check any strange smell coming from the motor	-	-	-	

c. Air Blower

(Discharge Valve and Air Valve shall be open for Air Blower operation to prevent Air Blower overloading.)

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Open discharge valve/air valve	Normal	Normal	Normal	
2	Run all blower/motor for 5-10 minutes	Normal	Normal	Normal	
3	Check/record motor current	-	-	-	It is need to check ammeter of blower.
4	Check blower/motor bearing temperature	Normal	Normal	Normal	
5	Check blower/motor vibration	Normal	Normal	Normal	
6	Check blower/motor operating noise	Normal	Normal	Normal	
7	Check leakage of lubricant	Normal	Normal	Normal	
8	Check any strange smell coming from the motor	Normal	Normal	Normal	

Monthly Record (Electrical – Sample)
31-10-2017

1-1.Lift Pump Station

a. Main Panel

No.	Maintenance Task	Result	Comment
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)	Normal	
2	MCCB status check (ON/OFF/TRIP)	Normal	

b. Pump Starter Panel

No.	Maintenance Task	No.1	No.2	No.3	No.4	No.5	No.6
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)	Normal	Normal	Normal	Normal	Normal	Normal
2	Lamp test check	Normal	Normal	Normal	Normal	Normal	Normal
Comment							

c. Distribution Panel

No.	Maintenance Task	Result	Comment
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)	Normal	
2	MCCB status check (ON/OFF/TRIP)	Normal	

d. Water Level Indicator Panel

No.	Maintenance Task	Result	Comment
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)	Normal	

2-1 Filter [No. 2]

a. 400V Main Panel

No.	Maintenance Task	Result	Comment
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)	Normal	
2	MCCB status check (ON/OFF/TRIP)	Normal	

b. Valve Starter Panel

No.	Maintenance Task	Result	Comment
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)	Normal	

c. Filter Local Control Panel

No.	Maintenance Task	1-1	1-2	1-3	1-4	1-5	1-6
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)	Normal	Normal	Normal	Normal	Normal	Normal
2	Indication lamp check of PLC local unit						
No.	Maintenance Task	1-7	1-8	1-9	1-10	1-11	1-12
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)	Normal	Normal	Normal	Normal	Normal	Normal
2	Indication lamp check of PLC local unit						
Comment							

d. Filter Control Panel

No.	Maintenance Task	Result	Comment
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)	Normal	
2	Alarm check of LCD unit	-	
3	Indication lamp of PLC check	Common Fault	

e. Backwash Pump Starter Panel

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)	Normal	Normal	Normal	

f. Backwash Pump Local Control Panel

No.	Maintenance Task	Result	Comment
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)	Normal	

g. Air Blower Starter Panel

No.	Maintenance Task	No.1	No.2	Comment
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)	Nromal		

h. Air Blower Local Control Panel

No.	Maintenance Task	Result	Comment
1	Interior visual check (Damage, Smell, Foreign Materials, etc.)	Normal	

Weekly Record (Mechanical) (8-11-2017)

1-1. Lift Pump Station

a. Main Pump/Motor

[Pump No. 1,2,3,4,5,6]

No.	Maintenance Task	Check	Comme
1	Run all motor for 5-10 minutes	1,2,3,4,5&6	Normal
2	Check/record motor current	〃	175 A
3	Check motor body/bearing temperature	〃	Normal
4	Check ventilation condition	〃	Normal
5	Check motor operating noise	〃	Normal
6	Check motor vibration	〃	Normal
7	Check any strange smell coming from the motor	〃	Normal
8	Check any damage/crack on the motor	〃	Normal

b. Motorized Butterfly Valve

[Pump No. 1,2,3,4,5,6]

No.	Maintenance Task	check	Comment
1	Open/Close all Valves	1,2,3,4,5&6	Normal
2	Check valve operating noise	〃	Normal
3	Check valve operating vibration	〃	Normal
4	Check actuator operating noise	〃	Normal
5	Check actuator operating vibration	〃	Normal

Weekly Record (Electrical)

1-1.Lift Pump Station

a. Main Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal	
2	Power indication lamp check		
3	Voltage and current check	R-S 420 V S-T 420 V R - A S - A T - A	It is need to check Ammeter.
4	Main CB status check (On/Off/Trip)		

b. Pump Starter Panel

No.	Maintenance Task	No.1	No.2	No.3	No.4	No.5	No.6
1	Exterior visual check (Damage, Smell, etc.)	Normal	Normal	Normal	Normal	Normal	Normal
2	Power indication lamp check (R-S-T)	S-phase& P-Lamp has not shown signal	S-phase& P-Lamp has not shown signal	S-phase& P-Lamp has not shown signal	S-phase& P-Lamp has not shown signal	S-phase& P-Lamp has not shown signal	S-phase& P-Lamp has not shown signal
3	Voltage (S-T phase) Current (S- phase)	420 - V 175 - A	420 V 175 A	420 – V 175 - A	420 V 175 A	420 - V 175 - A	420 V 175 A
4	Announciator check	Normal	Normal	Normal	Normal	Normal	Normal
5	Indication lamp check (ON/OFF,OPEN/CLOSE,POWER ON)	Normal	Normal	Normal	Normal	Normal	Normal
Comment							

c. Distribution Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)	N	
2	Power indication lamp check	S.Phase pilot lamp has not shown signal	
3	Voltage (S-T phase) Current (S- phase)	420 V - A	It is need to check Ammeter .
4	Main MCCB trip lamp		

d. Water Level Indicator Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal	
2	Indication lamp check (HWL,LWL,LLWL)	Normal	
3	Selector Switch check (Tank 1 or Tank 2)	Normal	

e. Water Level Switch

No.	Maintenance Task	Result	Comment
1	Exterior visual check	Normal	

3-1. Filter

a. Motorized Butterfly Valve

[Filter No. 1]

***** YCDC has been doing installation work of nozzle strainers and so, they cannot doing back wash pump maintenance test operation for Filter No.1**

[Inlet Valve] **[Outlet Valve]**

No.	Maintenance Task	Check	Comment	Check	Comment
1	Open/Close all Valves	1 to 12	Normal	1 to 12	Normal
2	Check valve operating noise	〃	Normal	〃	Normal
3	Check valve operating vibration	〃	Normal	〃	Normal
4	Check actuator operating noise	〃	Normal	〃	Normal
5	Check actuator operating vibration	〃	Normal	〃	Normal

[Air Valve] **[BW Water Valve]**

No.	Maintenance Task	Check	Comment	Check	Comment
1	Open/Close all Valves	1 to 12	No-8 fault signal	1 to 12	Normal
2	Check valve operating noise	〃	Normal	〃	Normal
3	Check valve operating vibration	〃	Normal	〃	Normal
4	Check actuator operating noise	〃	Normal	〃	Normal
5	Check actuator operating vibration	〃	Normal	〃	Normal

[Drain Valve] **[Others]**

No.	Maintenance Task	Check	Comment	Comment
1	Open/Close all Valves	1 to 12	Normal	Although motors of valves can operate, Outlet valves (1,7,9,10,11,12), Inlet valves (2,6,8,9), Drain valves (5,6,8,12) and Air valves (9,11) are not fully close and they have leakage.
2	Check valve operating noise		No-6 drain valve has appeared sound	
3	Check valve operating vibration		No-7 drain valve shaft has moving	
4	Check actuator operating noise		Normal	
5	Check actuator operating vibration		Normal	

b. Backwash Water Pump

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Run all pump/motor for 5-10 minutes	-	-	-	
2	Check/record motor current	-	-	-	
3	Check pump/motor bearing temperature	-	-	-	
4	Check pump/motor vibration	-	-	-	
5	Check pump/motor operating noise	-	-	-	
7	Check any strange smell coming from the motor	-	-	-	

c. Air Blower

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Open discharge valve/air valve	Normal	Normal	Normal	
2	Run all blower/motor for 5-10 minutes	Normal	Normal	Normal	
3	Check/record motor current	-	-	-	It is need to check ammeter of blower.
4	Check blower/motor bearing temperature	Normal	Normal	Normal	
5	Check blower/motor vibration	Normal	Normal	Normal	
6	Check blower/motor operating noise	Normal	Normal	Normal	
7	Check leakage of lubricant	Normal	Normal	Normal	
8	Check any strange smell coming from the motor	Normal	Normal	Normal	

2-1. Filter

a. Motorized Butterfly Valve

[Filter No. 2] (*Inlet valves cannot test because YCDC has been doing installation work of strainer nozzles)**

[Outlet Valve]

No.	Maintenance Task	Check	Comment	Check	Comment
1	Open/Close all Valves	1 to 12	-	1 to 12	No-12 has not operated shaft
2	Check valve operating noise	〃	-	〃	No-8 has appeared noise sound
3	Check valve operating vibration	〃	-	〃	No-9 has moving base
4	Check actuator operating noise	〃	-	〃	Normal
5	Check actuator operating vibration	〃	-	〃	Normal

[Air Valve] **[BW Water Valve]**

No.	Maintenance Task	Check	Comment	Check	Comment
1	Open/Close all Valves	1 to 12	No-12 fault signal	1 to 12	Normal
2	Check valve operating noise	〃	No-2,5,6,8,9,10 have appeared noise	〃	Normal
3	Check valve operating vibration	〃	No-1,9 has moved base	〃	Normal
4	Check actuator operating noise	〃	Normal	〃	Normal
5	Check actuator operating vibration	〃	Normal	〃	Normal

[Drain Valve] **[Others]**

No.	Maintenance Task	Check	Comment	Comment
1	Open/Close all Valves	1 to 12	No-3,9,12 has fault signal	
2	Check valve operating noise		No-7 has appear noise sound from shaft	
3	Check valve operating vibration		No-8 has moving base	
4	Check actuator operating noise		Normal	
5	Check actuator operating vibration		Normal	

b. Backwash Water Pump

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Run all pump/motor for 5-10 minutes	Normal	Normal	Normal	
2	Check/record motor current	23A	23A	23A	
3	Check pump/motor bearing temperature	Normal	Normal	Normal	
4	Check pump/motor vibration	Normal	Normal	Normal	
5	Check pump/motor operating noise	Normal	Normal	Normal	
7	Check any strange smell coming from the motor	Normal	Normal	Normal	

c. Air Blower

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Open discharge valve/air valve				When Blower has started run , Ampere is increase and MCCB trip.
2	Run all blower/motor for 5-10 minutes				
3	Check/record motor current				
4	Check blower/motor bearing temperature				
5	Check blower/motor vibration				
6	Check blower/motor operating noise				
7	Check leakage of lubricant				
8	Check any strange smell coming from the motor				

2-1 Filter [No. 1, 2]

a. 400V Main Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal	
2	Power indication lamp check	Normal	
3	Voltage and current check	R-S 420V S-T 420 V T-S 420 V R 0 A S 0 A T 0 A	

b. Valve Starter Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal	
2	Power indication lamp check	Normal	
3	Voltage (S-T phase) Current (S- phase)	420 V 0 A	
4	Indication lamp & MCCB check for each unit	Normal	

c. Filter Local Control Panel

No.	Maintenance Task	1-1	1-2	1-3	1-4	1-5	1-6
1	Exterior visual check (Damage, Smell, etc.)	Normal	Normal	Normal	Normal	Normal	Normal
2	Indication lamp check (OPEN/CLOSE/FAULT, ON/OFF etc.)	Normal	Normal	Normal	Normal	Normal	Normal
No.	Maintenance Task	1-7	1-8	1-9	1-10	1-11	1-12
1	Exterior visual check (Damage, Smell, etc.)	Normal	Normal	Normal	Normal	Normal	Normal
2	Indication lamp check (OPEN/CLOSE/FAULT, ON/OFF etc.)	Normal	Normal	Normal	Normal	Normal	Normal
Comment							

d. Filter Control Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal	
2	Power indication lamp check	Normal	
3	Fault lamp, Emergency lamp check	Common fault	

e. Backwash Pump Starter Panel

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal			
2	Power indication lamp check	Normal			
3	Voltage (S-T phase) Current (S- phase)	420 V A	V A	V A	

f. Backwash Pump Local Control Panel

No.	Maintenance Task	Result	comment
1	Exterior visual check	Normal	
2	Announciator check	Normal	

g. Air Blower Starter Panel

No.	Maintenance Task	No.1	No.2	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal	Normal	
2	Power indication lamp check	Normal	Normal	
3	Voltage (S-T phase) Current (S- phase)	420 V A	420 V A	YCDC cannot see Ampere because Ampere has increased sudden and has done MCCB trip.

h. Air Blower Local Control Panel

No.	Maintenance Task	Result	comment
1	Exterior visual check	Normal	
2	Announciator check	Normal	

Weekly Record (Mechanical) (9-5-2018)

1-1. Lift Pump Station

a. Main Pump/Motor

[Pump No. 1,2,3,4,5,6]

No.	Maintenance Task	Check	Comme
1	Run all motor for 5-10 minutes	1,2,3,4,5&6	Normal
2	Check/record motor current	〃	175 A
3	Check motor body/bearing temperature	〃	Normal
4	Check ventilation condition	〃	Normal
5	Check motor operating noise	〃	Normal
6	Check motor vibration	〃	Normal
7	Check any strange smell coming from the motor	〃	Normal
8	Check any damage/crack on the motor	〃	Normal

b. Motorized Butterfly Valve

[Pump No. 1,2,3,4,5,6]

No.	Maintenance Task	check	Comment
1	Open/Close all Valves	1,2,3,4,5&6	Normal
2	Check valve operating noise	〃	Normal
3	Check valve operating vibration	〃	Normal
4	Check actuator operating noise	〃	Normal
5	Check actuator operating vibration	〃	Normal

Weekly Record (Electrical)

1-1.Lift Pump Station

a. Main Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal	
2	Power indication lamp check		
3	Voltage and current check	R-S 420 V S-T 420 V R - A S - A T - A	It is need to check Ammeter.
4	Main CB status check (On/Off/Trip)		

b. Pump Starter Panel

No.	Maintenance Task	No.1	No.2	No.3	No.4	No.5	No.6
1	Exterior visual check (Damage, Smell, etc.)	Normal	Normal	Normal	Normal	Normal	Normal
2	Power indication lamp check (R-S-T)	-	-	-	-	-	-
3	Voltage (S-T phase) Current (S- phase)	420 - V 175 - A	420 V 175 A	420 – V 175 - A	420 V 175 A	420 - V 175 - A	420 V 175 A
4	Announciator check	Normal	Normal	Normal	Normal	Normal	Normal
5	Indication lamp check (ON/OFF,OPEN/CLOSE,POWER ON)	Normal	Normal	Normal	Normal	Normal	Normal
Comment							

c. Distribution Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)	N	
2	Power indication lamp check	-	
3	Voltage (S-T phase) Current (S- phase)	420 V - A	
4	Main MCCB trip lamp		

d. Water Level Indicator Panel

No.	Maintenance Task	Result	Comment
1	Exterior visual check (Damage, Smell, etc.)	Normal	
2	Indication lamp check (HWL,LWL,LLWL)	Normal	
3	Selector Switch check (Tank 1 or Tank 2)	Normal	

e. Water Level Switch

No.	Maintenance Task	Result	Comment
1	Exterior visual check	Normal	

3-1. Filter

a. Motorized Butterfly Valve

[Filter No. 1]

***** YCDC has been filling filter media not finish yet and so, they cannot doing back wash pump maintenance test operation for Filter No.1**

[Inlet Valve] **[Outlet Valve]**

No.	Maintenance Task	Check	Comment	Check	Comment
1	Open/Close all Valves	1 to 12	Need to check valves fully close and open	1 to 12	Need to check valves fully close and open
2	Check valve operating noise	〃	Normal	〃	Normal
3	Check valve operating vibration	〃	Normal	〃	Normal
4	Check actuator operating noise	〃	Normal	〃	Normal
5	Check actuator operating vibration	〃	Normal	〃	Normal

[Air Valve] **[BW Water Valve]**

No.	Maintenance Task	Check	Comment	Check	Comment
1	Open/Close all Valves	1 to 12	Normal	1 to 12	Normal
2	Check valve operating noise	〃	Normal	〃	Normal
3	Check valve operating vibration	〃	Normal	〃	Normal
4	Check actuator operating noise	〃	Normal	〃	Normal
5	Check actuator operating vibration	〃	Normal	〃	Normal

[Drain Valve] **[Others]**

No.	Maintenance Task	Check	Comment	Comment
1	Open/Close all Valves	1 to 12	Normal	Although motors of valves can operate, Outlet valves (1,7,9,10,11,12), Inlet valves (2,6,8,9) are not fully close and they have leakage.
2	Check valve operating noise		Normal	
3	Check valve operating vibration		Normal	
4	Check actuator operating noise		Normal	
5	Check actuator operating vibration		Normal	

b. Backwash Water Pump

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Run all pump/motor for 5-10 minutes	-	-	-	
2	Check/record motor current	-	-	-	
3	Check pump/motor bearing temperature	-	-	-	
4	Check pump/motor vibration	-	-	-	
5	Check pump/motor operating noise	-	-	-	
7	Check any strange smell coming from the motor	-	-	-	

c. Air Blower

No.	Maintenance Task	No.1	No.2	No.3	Comment
1	Open discharge valve/air valve	Normal	Normal	Normal	
2	Run all blower/motor for 5-10 minutes	Normal	Normal	Normal	
3	Check/record motor current	-	-	-	.
4	Check blower/motor bearing temperature	Normal	Normal	Normal	
5	Check blower/motor vibration	Normal	Normal	Normal	
6	Check blower/motor operating noise	Normal	Normal	Normal	
7	Check leakage of lubricant	Normal	Normal	Normal	
8	Check any strange smell coming from the motor	Normal	Normal	Normal	