Alpha
Consulting Engineers Pte Ltd

PROJECT QUALITY PLAN

PROPOSED UPGRADING OF EXISTING JURONG WEST PRIMARY SCHOOL

For

MINISTRY OF EDUCATION

Copy No.	1

Prepared By: Kevin Kee / Chim Heng Leong

Authorised By: Andrew Loh

Date: 21 February 2012

TABLE OF CONTENTS

SECTION	DESCRIPTION
-	**TITLE PAGE**
-	**TABLE OF CONTENTS**
1	**QUALITY PLAN CONTROL AND DISTRIBUTION**
1.1	List of Copy Holders
1.2	Revision Record
2	**PROJECT INFORMATION**
2.1	Project Description
2.2	Project Cost
2.3	Scope of Works
3	**ORGANISATION**
3.1	Organisation Chart
3.2	ACEPL's Project Team Member
3.3	Client/Client's Representative
3.4	Other Consultants
	- Local
	- Overseas – NOT USED
3.5	Contractor/Sub-Contractors
3.6	Authorities – NOT USED
4	**PROGRAMME**
4.1	Overall Programme
4.2	Authority Submission Status for M&E Services – 1st Submission
4.3	Authority Submission Status for M&E Services (Amendment) – 2nd Submission – NOT USED
5	**PROJECT RECORDS**
5.1	List of Internal Files
5.2	Filing of Drawings

TABLE OF CONTENTS

SECTION	DESCRIPTION
6	**INTERFACING**
6.1	Method of Interface
6.2	Internal Design Interface – NOT USED
6.3	Circulation of Documents to External Parties
7	**WORK AUTHORISATION**
8	**DESIGN INPUT AND METHODOLOGY**
8.1	List of Client's Standards, Reference Documents or Brief
8.2	List of Applicable Code of Practice and Regulations
8.3	List of Design Guide or Handbook Used
8.4	List of Applicable Quality System Procedures
8.5	List of Software Used for Design/Analysis
9	**ENVIRONMENTAL CONSIDERATIONS**
9.1	Sustainable Design Features / Criteria
9.2	Site PPE Requirement
9.3	Site Emergency Preparedness
9.4	Reporting of Environmental Non-conformances
9.5	List of Applicable Environmental Management System Procedures
10	**CLIENT'S REQUIREMENTS**
10.1	List of Output Required by Client
10.2	Specific Procedures Required by Client
11	**LIST OF SUB-JOB**
11.1	List of Sub-Job Numbers – NOT USED

SECTION 1

QUALITY PLAN CONTROL AND DISTRIBUTION

1.1 List of Copy Holders

Copy No.	Copy Holder	Date of Issue
1	6118-PQP	21 February 2012

1.2 Revision Record

Revision	Date of Issue	Section Reference	Page(s)	Remarks
0	27 April 2010	1 to 11	28	+ 1 pg (Sect 4.1 – Overall Programme)
1	11 January 2011	1 to 11	28	+ 1 pg (Sect 4.1 – Overall Programme)
2	21 February 2012	1 to 11	28	+ 4 pgs (Sect 4.1 - Overall Programme)

SECTION 2

PROJECT INFORMATION

2.1 Project Description

Type of Development	Institutional

Statistics of Development	
Site Area, m²	17,896.40
Nett Floor Area, m²	-
Gross Floor Area, m²	19,033.85
Covered Carpark, m²	-
No. of Covered Carpark Lots	-
No. of Apartments/Houses	-
No. of Beds (for Hospitals)	-
No. of Guestroom (for Hotels)	-
No. of Blocks / No. of Storeys	1 Block / 5-Storey Classroom Block 1 Block / 3-Storey Indoor Sport Hall cum Basketball Court
No. of Phases	2

2.2 Project Cost

M&E Services Cost Plan (S$ x 1M)										
Services	EI	ACVI	LEI	FFAI	PSI	SPFI				
Estimate	0.71	0.365	0.3	0.11	0.42	-				
Awarded	-	-	-	-	-	-				

Total Project Construction Cost (S$ x1M)			
	Site Clearance	Piling Works	Main Contract
Estimate		1.2	
Awarded			

Site Clearance shall include earth work, soil improvement, service diversion and termination.

2.3 Scope of Works

2.3.1 Scope of Consultancy Services

Conceptual/Schematic Design	✓
Detailed Design	✓
Tender Documentation	✓
Tender Evaluation	✓
Contract Supervision	✓
M&E Costing	✓
Submissions to Authority	✓

(✓*where applicable*)

2.3.2 Scope of M&E Services

ELECTRICAL	✓	AIR CONDITIONING	✓	SPRINKLER		SANITARY	✓	SWIMMING POOL	
LIFT	✓	MECHANICAL VENTILATION	✓	FIRE ALARM	✓	COLD WATER	✓	STEAM BOILER	
ESCALATOR		MECHANICAL SMOKE EXTRACT		HOSEREEL	✓	HOT WATER		FUEL STORAGE	
PABX		COMPUTER A/C		WET RISER		TOWN GAS			
SECURITY		BST CARPARK EXH		DRY RISER	✓	LPG GAS			
TELELIFT		HEATING				MEDICAL GAS			
DATA COMM.	✓								
FLUSHFLOOR TRUNKING									

(✓*where applicable*)

2.3.3 Submission to Relevant Authorities by Others

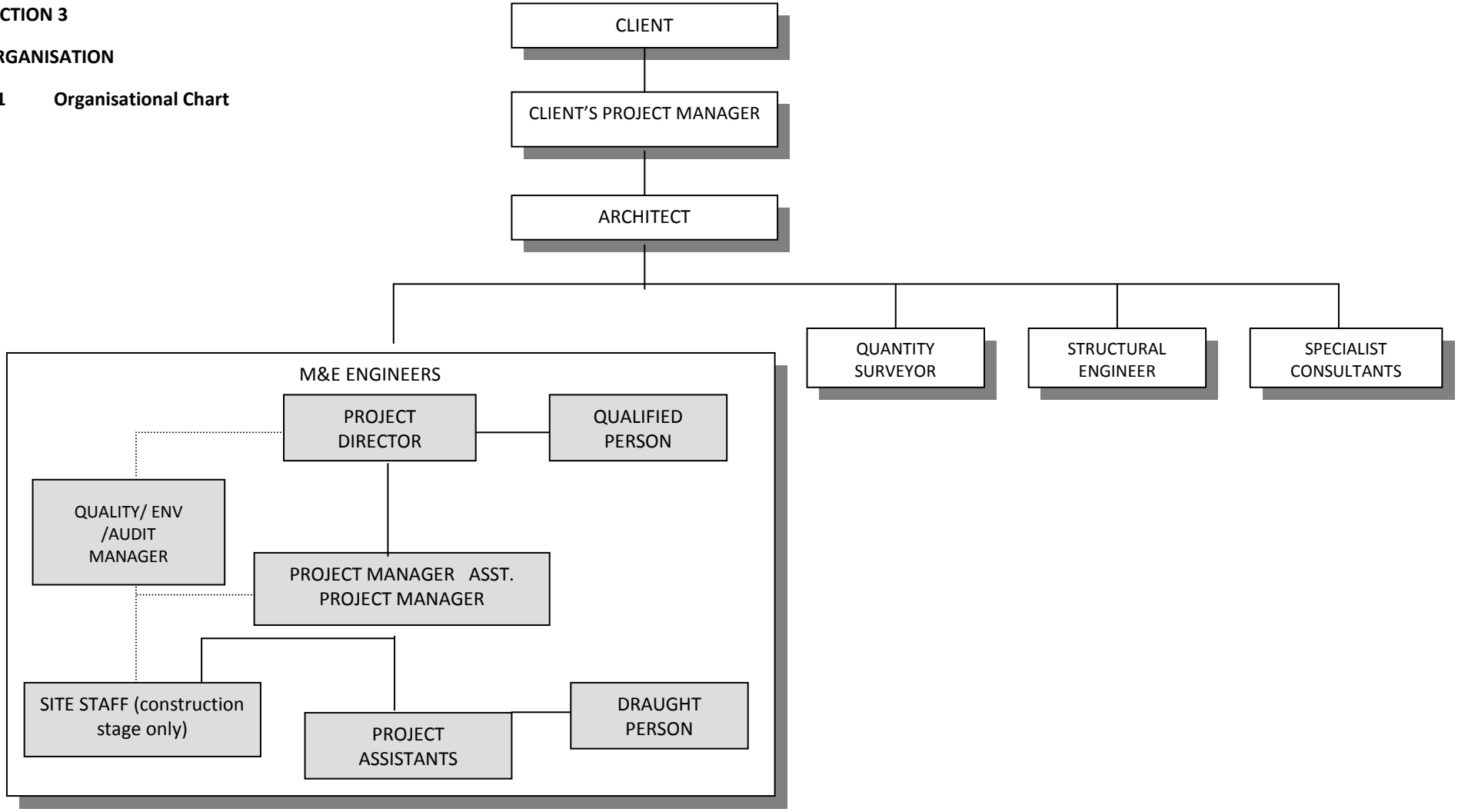
EJECTOR & DIVERTER		SUMP PUMP		FUEL OIL TANK		LIFT & ESCALATOR		PRESSURE VESSEL		HOISTS		FOAM	

(✓*where applicable*)

SECTION 3

ORGANISATION

3.1 Organisational Chart



SECTION 3

ORGANISATION

3.2 ACEPL's Project Team Member

TITLE		NAME
Project Director		Andrew Loh (LCT)
Qualified Person	Mechanical	Andrew Loh (LCT)
	Electrical	Loh Fook Yuen (LFY)
Project Manager		Chim Heng Leong (CHL)
Assistant Project Manager		Derek Ong (DO)
Project Assistant (Mech)		Kevin Kee (KK)
Project Assistant (Elect)		-
Draughtsperson		Common Pool
Resident Engineer (M&E)		-
Assistant Resident Engineer (M&E)		-
Clerk-of-Work (M&E)		-

3.3 Client/Client's Representatives

Client: Ministry of Education

Address: Project Development & Management Branch
285 Ghim Moh Road
Block C Level 3 MOE Building
Singapore 279622

Tel: 6872 1110

Fax: 6776 3850

Client's Project Manager: PM Link Pte Ltd

Address: 70 Bendemeer Road
#03-01 Luzerne
Singapore 339940

Client's Representatives:

Name of Company	Contact Person	Contact
Ministry of Education	Name: Ms June Lee Yoke Ling Position: Senior Head	Tel: 6597 6543 Fax: 6776 3850 Handphone: - Email: yoke_ling_lee@moe.gov.sg
Ministry of Education	Name: Mr Tan Chee Chuen Position: Development Executive	Tel: 6897 6537 Fax: 6776 3850 Handphone: - Email: chee_chuen_tan@moe.gov.sg
PM Link Pte Ltd	Name: Mr Parikshit Kulkarni Position: Project Manager	Tel: 6391 7017 Fax: 6391 7033 Handphone: 8222 3040 Email: Parikshit.kulkarni@pmlink.com.sg
	Name: Position:	Tel: Fax: Handphone: Email:
	Name: Position:	Tel: Fax: Handphone: Email:

3.4 Other Consultants (Local)

Function / Name of Company	Contact Person	Contact
Architect SAA Architects Pte Ltd	Name: Ms Linda Lee Position: Architectural Assistant	Tel: 6220 0810 Fax: 6224 9929 Handphone: - Email: lee.linda@saaarchitects.com.sg
Quantity Surveyor CPG Consultants Pte Ltd	Name: Ms Myo Gaday Shi Position: Quantity Surveyor	Tel: 6357 4679 Fax: 6357 4668 Handphone: - Email: myo.gaday.shi@cpgcorp.com.sg
Structural Engineer DE Consultants Pte Ltd	Name: Mr Ho Yu Chee Position: Director	Tel: 6227 3900 Fax: 6227 2909 Handphone: - Email: decon@singnet.com.sg
Interior Designer	Name: Position:	Tel: Fax: Handphone: Email:
Lighting Consultant	Name: Position:	Tel: Fax: Handphone: Email:
Acoustic Consultant	Name: Position:	Tel: Fax: Handphone: Email:
_____	Name: Position:	Tel: Fax: Handphone: Email:
_____	Name: Position:	Tel: Fax: Handphone: Email:

3.4 Other Consultants (Overseas) – NOT USED

Function / Name of Company	Contact Person	Contact
Architect	Name: Position:	Tel: Fax: Handphone: Email:
M&E Consultant	Name: Position:	Tel: Fax: Handphone: Email:
Quantity Surveyor	Name: Position:	Tel: Fax: Handphone: Email:
Structural Engineer	Name: Position:	Tel: Fax: Handphone: Email:
Interior Designer	Name: Position:	Tel: Fax: Handphone: Email:
Lighting Consultant	Name: Position:	Tel: Fax: Handphone: Email:
Acoustic Consultant	Name: Position:	Tel: Fax: Handphone: Email:
_____	Name: Position:	Tel: Fax: Handphone: Email:

3.5 Contractors/Sub-Contractors

Function / Name of Company	Contract *	Contact Person	Contact
Main Contractor QXY Resources Pte Ltd	DC	Name: Mr Ramesh Kumar Position: Project Manager	Tel: 6515 0980 Fax: 6515 0981 Handphone: 8200 1757 Email: qxysitejw@gmail.com
Air Conditioning & Ventilation Installation Sub-Contractor Alstern Technologies Singapore Pte Ltd	DSC	Name: Mr Ervin Chng Position: Project Manager	Tel: 6747 1527 Fax: 6747 6547 Handphone: 8338 4672 Email: Ervin@alstern-technologies.com
Plumbing & Sanitary Installation Sub-Contractor New Asia (M&E) Pte Ltd	DSC	Name: Mr Andy Goh Position: Project Manager	Tel: 6482 0080 Fax: 6482 0030 Handphone: 8282 0228 Email: andygc@newasiame.com
Electrical Installation Sub-Contractor Dactt Engineers Pte Ltd	DSC	Name: Mr Woo Yoing Kee Position: Project Manager	Tel: 6746 0100 Fax: 6744 0782 Handphone: 9685 1001 Email: dactt@singnet.com.sg
Lift & Escalator Installation Sub-Contractor Sigma Elevator Singapore Pte Ltd	DSC	Name: Mr Anthony Tan Position: Project Manager	Tel: 6323 7361 Fax: 6323 7362 Handphone: 9455 9561 Email: anthonyYP.Tan@sigma-elevator.com.sg
Fire Fighting & Alarm Installation Sub-Contractor Dactt Engineers Pte Ltd	DSC	Name: Mr Woo Yoing Kee Position: Project Manager	Tel: 6746 0100 Fax: 6744 0782 Handphone: 9685 1001 Email: dactt@singnet.com.sg
Swimming Pool Filtration Plant Installation Sub-Contractor		Name: Position:	Tel: Fax: Handphone: Email:
Carpark System Installation Sub-Contractor		Name: Position:	Tel: Fax: Handphone: Email:
_____		Name: Position:	Tel: Fax: Handphone: Email:

** Type of Contract*
- *NSC (Nominated Sub-Contract)*
- *DSC (Domesticated Sub-Contract)*
- *DC (Direct Contract)*
- *NS (Nominated Supplier)*

3.6 Authorities

Authorities/Department	Contact Person	Tel/Fax Nos./E-mail
SP PowerGrid:		
(a) Sub-Station		
(b) Diversion		
SP Services:		
(a) Customer Supply		
(b) Installation		
(c) Meter Section		
(d) Road Lighting		
TFCC:		
(a) SCV		
(b) SingTel		
(c) IDA		
BCA:		
(a) Building Plan		
FSSD:		
(a) Building Plan		
(b) M&E Plan	Ms Ai Hua Nancy Ang	6848 1464
PUB (Water Supply) Network Dept:		
(a) Water Conservation		
(b) Plumbing Plan	Ms Olivia Teo	6731 3967/6731 3023 Olivia_teo@pub.gov.sg
(c) Diversion		
PUB Water Reclamation (Network) Dept:		
(a) Building Plan/CBPU	Mr Abdul Razak Bin Abdul Majid	6731 9385
(b) M&E Plan	Mr Mohamad Sofian Bin Kemat	6731 3640/6731 3345/6731 3245
(c) Diversion		
City Gas Pte Ltd:		
(a) Planning/Submission	Mr Liew Khee Boon	6586 8846
(b) Installation/Inspection	Mr A. Rajenthiran	6578 7817/9069 5106
PowerGas Pte Ltd		
(a) Diversion		
NEA (Pollution Control)		
(a) Planning/Submission		
(b) Inspection		

SECTION 4

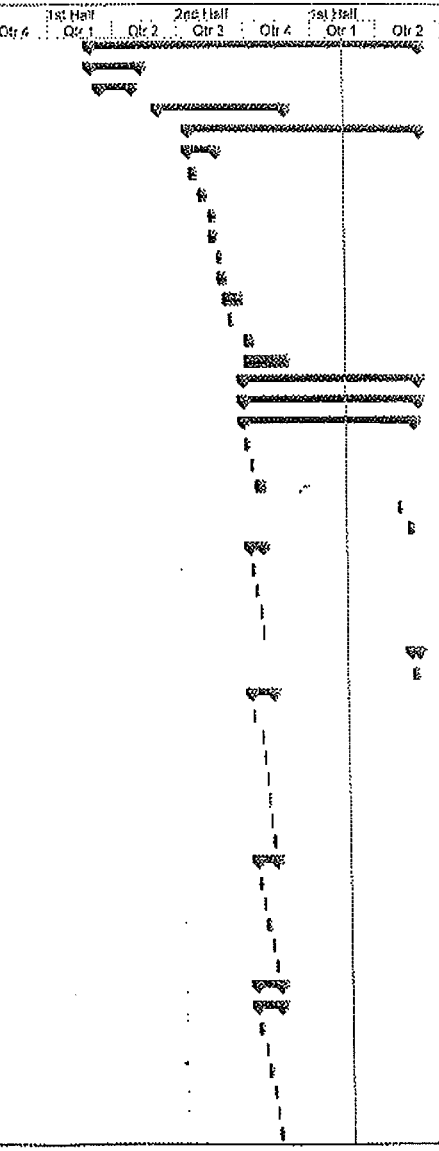
PROGRAMME

4.1 Overall Programme – Refer to attached

ID	TASK NAME	MONTHS	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1.	Preliminary Planning																									
2.	Planning Submission																									
3.	Detail Design																									
4.	BP Submission																									
5.	BP Submission (Amendments)																									
6.	Tender Period for Piling																									
7.	Tender Period for Sub-Structure																									
8.	Tender Period for Super-Structure																									
9.	Piling Period																									
10.	Sub-Structure Construction Period																									
11.	Super-Structure Construction Period																									
12.	TOP																									
13.	CSC																									

PROPOSED ERECTION OF A 3-STOREY INDOOR SPORTS HALL A 5-STOREY CLASSROOM BLOCK AND ADDITIONS & ALTERATIONS TO EXISTING JURONG WEST PRIMARY SCHOOL ON LOT 03663L MK06 AT JURONG WEST 61

ID	Task Name	Duration	Start	Finish	C U S Start Date	C U S Finish Date	Schedule %	% Complete
1	OVERALL JURONG WEST PRIMARY SCHOOL SCHEDULE	391 days	Tue 1/3/11	Tue 29/5/12			93%	70%
2	PREMILINARY WORKS	61 days	Tue 1/3/11	Tue 10/5/11			100%	100%
24	TEMPORARY AIR CONDITION WORKS (BLOCK B)	39 days	Mon 14/3/11	Wed 27/4/11			100%	100%
36	Phase 1A- New 6 Sty Blk F & Others (9 months)	149 days	Sat 4/6/11	Thu 24/11/11	2/8/11	28/11/11	100%	100%
122	Phase 2 -Construction of New 3 Sty ISH & Others (15 months)	273 days	Sat 16/7/11	Tue 29/5/12	16/8/11	28/5/12	82%	25%
123	Substructure Works	32 days	Sat 16/7/11	Mon 22/8/11	16/8/11	29/9/11	100%	100%
124	Excavation	10 days	Sat 16/7/11	Wed 27/7/11	16/8/11	27/8/11	100%	100%
125	Pile Cap & Stumps	12 days	Thu 28/7/11	Wed 10/8/11	29/8/11	8/9/11	100%	100%
126	Ground Beam	10 days	Thu 11/8/11	Mon 22/8/11	9/9/11	15/9/11	100%	100%
127	1st storey slab	11 days	Thu 11/8/11	Tue 23/8/11	19/9/11	29/9/11	100%	100%
128	2nd storey beam	6 days	Tue 23/8/11	Mon 29/8/11	30/9/11	9/10/11	100%	100%
129	Column 1st-3rd floor	12 days	Tue 23/8/11	Mon 5/9/11	10/10/11	21/10/11	100%	100%
130	3rd storey slab	24 days	Tue 30/8/11	Mon 26/9/11	22/10/11	14/11/11	100%	100%
131	Column 3rd floor-Roof	7 days	Tue 6/9/11	Tue 13/9/11	15/11/11	21/11/11	100%	50%
132	RC flat roof slab	14 days	Tue 27/9/11	Wed 12/10/11	22/11/11	5/12/11	100%	0%
133	Metal Roof Roof slab	55 days	Tue 27/9/11	Tue 29/11/11	22/11/11	15/1/12	100%	50%
134	Architectural Works	207 days	Tue 27/9/11	Thu 24/5/12	27/9/2011	29/5/2012	78%	4%
135	1st storey	207 days	Tue 27/9/11	Thu 24/5/12	27/9/2011	24/5/2012	77%	15%
136	New Basketball court	202 days	Tue 27/9/11	Fri 18/5/12	27/9/2011	18/5/2012	63%	15%
137	Brick wall	7 days	Tue 27/9/11	Tue 4/10/11	21/10/2011	26/10/2011	100%	30%
138	Painting works	5 days	Wed 5/10/11	Mon 10/10/11	5/10/2011	10/10/2011	100%	0%
139	M&E works	14 days	Tue 11/10/11	Wed 26/10/11	11/10/2011	26/10/2011	100%	30%
140	Steel Post for court	5 days	Wed 25/4/12	Mon 30/4/12	25/4/2012	30/4/2012	0%	0%
141	PU flooring	10 days	Tue 8/5/12	Fri 18/5/12	8/5/2012	18/5/2012	0%	0%
142	New lift lobby	16 days	Wed 5/10/11	Sat 22/10/11	5/10/2011	22/10/2011	100%	0%
143	Tiling works	5 days	Wed 5/10/11	Mon 10/10/11	5/10/2011	10/10/2011	100%	0%
144	Plastering works	5 days	Tue 11/10/11	Sat 15/10/11	11/10/2011	15/10/2011	100%	0%
145	M&E works	3 days	Mon 17/10/11	Wed 19/10/11	17/10/2011	19/10/2011	100%	0%
146	Painting	3 days	Thu 20/10/11	Sat 22/10/11	20/10/2011	22/10/2011	100%	0%
147	Fire Engine Access	10 days	Mon 14/5/12	Thu 24/5/12	14/5/2012	24/5/2012	0%	0%
148	Interlocking pavers	10 days	Mon 14/5/12	Thu 24/5/12	14/5/2012	24/5/2012	0%	0%
149	New Lan room	27 days	Wed 5/10/11	Fri 4/11/11	5/10/2011	4/11/2011	100%	20%
150	Brickwall	3 days	Wed 5/10/11	Fri 7/10/11	5/10/2011	7/10/2011	100%	50%
151	External plastering	3 days	Mon 17/10/11	Wed 19/10/11	17/10/2011	19/10/2011	100%	0%
152	Inner wall cement board	3 days	Thu 20/10/11	Sat 22/10/11	20/10/2011	22/10/2011	100%	0%
153	Vinyl flooring	2 days	Mon 24/10/11	Tue 25/10/11	24/10/2011	25/10/2011	100%	0%
154	Ceiling works	2 days	Wed 26/10/11	Thu 27/10/11	26/10/2011	27/10/2011	100%	0%
155	Painting works	2 days	Fri 28/10/11	Sat 29/10/11	28/10/2011	29/10/2011	100%	0%
156	M&E works	5 days	Mon 31/10/11	Fri 4/11/11	31/10/2011	4/11/2011	100%	50%
157	New Health and Fitness	23 days	Tue 11/10/11	Sat 5/11/11	11/10/2011	5/11/2011	100%	20%
158	Brickwall	5 days	Tue 11/10/11	Sat 15/10/11	11/10/2011	15/10/2011	100%	50%
159	Painting	3 days	Mon 17/10/11	Wed 19/10/11	17/10/2011	19/10/2011	100%	0%
160	M&E works	7 days	Thu 20/10/11	Thu 27/10/11	20/10/2011	27/10/2011	100%	50%
161	Door and window	3 days	Fri 28/10/11	Mon 31/10/11	28/10/2011	31/10/2011	100%	0%
162	Mirror and grab bar	5 days	Tue 1/11/11	Sat 5/11/11	1/11/2011	5/11/2011	100%	0%
163	2nd storey	28 days	Sat 8/10/11	Wed 9/11/11	8/10/2011	9/11/2011	100%	0%
164	New SCC room 1&2	28 days	Sat 8/10/11	Wed 9/11/11	8/10/2011	9/11/2011	100%	0%
165	Brickwall and plastering	7 days	Sat 8/10/11	Sat 15/10/11	8/10/2011	15/10/2011	100%	0%
166	Operable door	3 days	Mon 17/10/11	Wed 19/10/11	17/10/2011	19/10/2011	100%	0%
167	M & E works	7 days	Thu 20/10/11	Thu 27/10/11	20/10/2011	27/10/2011	100%	0%
168	Painting works	3 days	Fri 28/10/11	Mon 31/10/11	28/10/2011	31/10/2011	100%	0%
169	Doors and window	3 days	Tue 1/11/11	Thu 3/11/11	1/11/2011	3/11/2011	100%	0%
170	Fitment works	5 days	Fri 4/11/11	Wed 9/11/11	4/11/2011	9/11/2011	100%	0%



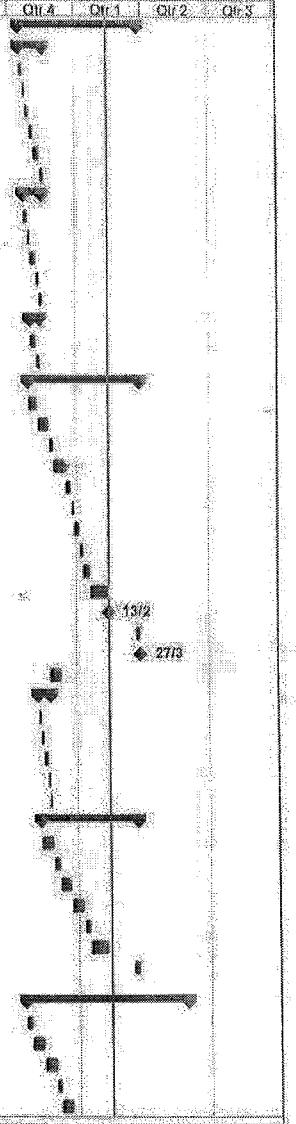
Project: Latest schedule 1
Date: Tue 14/2/12

Task	Project Summary	Inactive Milestone	Manual Summary Rollup	Progress
Split	External Tasks	Inactive Summary	Manual Summary	Deadline
Milestone	External Milestone	Manual Task	Start-only	
Summary	Inactive Task	Duration-only	Finish-only	

PREPARED BY: K.ELAMAREN(RAMESH)
QXY RESOURCES PTE.LTD.

PROPOSED ERECTION OF A 3-STOREY INDOOR SPORTS HALL,A 5-STOREY CLASSROOM BLOCK AND ADDITIONS & ALTERATIONS TO EXISTING JURONG WEST PRIMARY SCHOOL ON LOT 03863L MK06 AT JURONG WEST 61

ID	Task Name	Duration	Start	Finish	C.U.S Start Date	C.U.S. Finish Date	Schedule %	% Complete
171	3rd storey	140 days	Mon 17/10/11	Tue 27/3/12	17/10/2011	29/5/2012	76%	0%
172	New Band room	29 days	Mon 17/10/11	Fri 18/11/11	17/10/2011	18/11/2011	100%	0%
173	Brickwall	5 days	Mon 17/10/11	Fri 21/10/11	17/10/2011	21/10/2011	100%	0%
174	Door	2 days	Sat 22/10/11	Mon 24/10/11	22/10/2011	24/10/2011	100%	0%
175	Tiling works	5 days	Tue 25/10/11	Sat 29/10/11	25/10/2011	29/10/2011	100%	0%
176	M & E works	5 days	Mon 31/10/11	Fri 4/11/11	31/10/2011	4/11/2011	100%	0%
177	Wall acoutic	7 days	Sat 5/11/11	Sat 12/11/11	5/11/2011	12/11/2011	100%	0%
178	Ceiling works	5 days	Mon 14/11/11	Fri 18/11/11	14/11/2011	18/11/2011	100%	0%
179	New Band store room	21 days	Sat 22/10/11	Tue 15/11/11	22/10/2011	15/11/2011	100%	0%
180	Brickwall	5 days	Sat 22/10/11	Thu 27/10/11	22/10/2011	27/10/2011	100%	0%
181	Door	2 days	Fri 28/10/11	Sat 29/10/11	28/10/2011	29/10/2011	100%	0%
182	M & E works	7 days	Mon 31/10/11	Mon 7/11/11	31/10/2011	7/11/2011	100%	0%
183	Plastering	4 days	Tue 8/11/11	Fri 11/11/11	8/11/2011	11/11/2011	100%	0%
184	Painting	3 days	Sat 12/11/11	Tue 15/11/11	12/11/2011	15/11/2011	100%	0%
185	New lift lobby	12 days	Mon 31/10/11	Sat 12/11/11	31/10/2011	12/11/2011	100%	0%
186	Tiling works	7 days	Mon 31/10/11	Mon 7/11/11	31/10/2011	7/11/2011	100%	0%
187	M & E works	5 days	Tue 8/11/11	Sat 12/11/11	8/11/2011	12/11/2011	100%	0%
188	New Female and Male toilet	130 days	Fri 28/10/11	Tue 27/3/12	28/10/2011	27/3/2012	96%	0%
189	Brickwall	10 days	Fri 28/10/11	Tue 8/11/11	28/10/2011	8/11/2011	100%	0%
190	Waterproofing works	14 days	Wed 9/11/11	Thu 24/11/11	9/11/2011	24/11/2011	100%	0%
191	1st fix Plumbing works	5 days	Fri 25/11/11	Wed 30/11/11	25/11/2011	30/11/2011	100%	0%
192	Tiling wall and floor works	14 days	Thu 1/12/11	Fri 16/12/11	1/12/2011	16/12/2011	100%	0%
193	Ceiling works	7 days	Sat 17/12/11	Sat 24/12/11	17/12/2011	24/12/2011	100%	0%
194	Doors	3 days	Mon 26/12/11	Wed 28/12/11	26/12/2011	28/12/2011	100%	0%
195	Toilet cubicle	7 days	Thu 29/12/11	Thu 5/1/12	29/12/2011	5/1/2012	100%	0%
196	Painting works	3 days	Fri 6/1/12	Mon 9/1/12	6/1/2012	9/1/2012	100%	0%
197	Sanitary installation	9 days	Tue 10/1/12	Thu 19/1/12	10/1/2012	19/1/2012	100%	0%
198	M & E works	21 days	Fri 20/1/12	Mon 13/2/12	20/1/2012	13/2/2012	100%	0%
199	Sanitary works completion	0 days	Mon 13/2/12	Mon 13/2/12	13/2/2012	13/2/2012	100%	0%
200	Water turn on	5 days	Thu 22/3/12	Tue 27/3/12	22/3/2012	27/3/2012	0%	0%
201	Inspection	0 days	Tue 27/3/12	Tue 27/3/12	27/3/2012	27/3/2012	0%	0%
202	Mockup male toilet	14 days	Fri 25/11/11	Sat 10/12/11	25/11/2011	10/12/2011	100%	0%
203	New store room	15 days	Wed 9/11/11	Fri 25/11/11	9/11/2011	25/11/2011	100%	0%
204	Brickwall	3 days	Wed 9/11/11	Fri 11/11/11	9/11/2011	11/11/2011	100%	0%
205	Plastering works	3 days	Sat 12/11/11	Tue 15/11/11	12/11/2011	15/11/2011	100%	0%
206	M & E works	5 days	Wed 16/11/11	Mon 21/11/11	16/11/2011	21/11/2011	100%	0%
207	Doors	2 days	Tue 22/11/11	Wed 23/11/11	22/11/2011	23/11/2011	100%	0%
208	Painting works	2 days	Thu 24/11/11	Fri 25/11/11	24/11/2011	25/11/2011	100%	0%
209	Sports hall	114 days	Sat 12/11/11	Fri 23/3/12	20/10/2011	29/5/2012	61%	0%
210	Brickwall	14 days	Sat 12/11/11	Mon 28/11/11	12/11/2011	28/11/2011	100%	0%
211	Aluminium window and doors	7 days	Tue 29/11/11	Tue 6/12/11	29/11/2011	6/12/2011	100%	0%
212	M & E works	14 days	Wed 7/12/11	Thu 22/12/11	7/12/2011	22/12/2011	100%	0%
213	Acuustical wall panel	14 days	Fri 23/12/11	Sat 7/1/12	23/12/2011	7/1/2012	100%	0%
214	Painting	7 days	Mon 9/1/12	Mon 16/1/12	9/1/2012	16/1/2012	100%	0%
215	Timber flooring	21 days	Tue 17/1/12	Thu 9/2/12	17/1/2012	9/2/2012	100%	0%
216	Marking for badminton,basketball,volleyball and netball courts	7 days	Fri 16/3/12	Fri 23/3/12	16/3/2012	23/3/2012	0%	0%
217	ECO POND	161 days	Thu 20/10/11	Tue 29/5/12	20/10/2011	29/12/2011	100%	31%
218	Application of demolition permit	7 days	Thu 20/10/11	Thu 27/10/11	20/10/2011	27/10/2011	100%	100%
219	Approval of permit	14 days	Fri 28/10/11	Sat 12/11/11	28/10/2011	12/11/2011	100%	100%
220	Erection of Hoarding	14 days	Mon 14/11/11	Tue 29/11/11	14/11/2011	29/11/2011	100%	100%
221	Cutting trees and clearing works	5 days	Wed 30/11/11	Mon 5/12/11	30/11/2011	5/12/2011	100%	100%
222	Demolition works	11 days	Tue 6/12/11	Wed 21/12/11	6/12/2011	21/12/2011	100%	100%



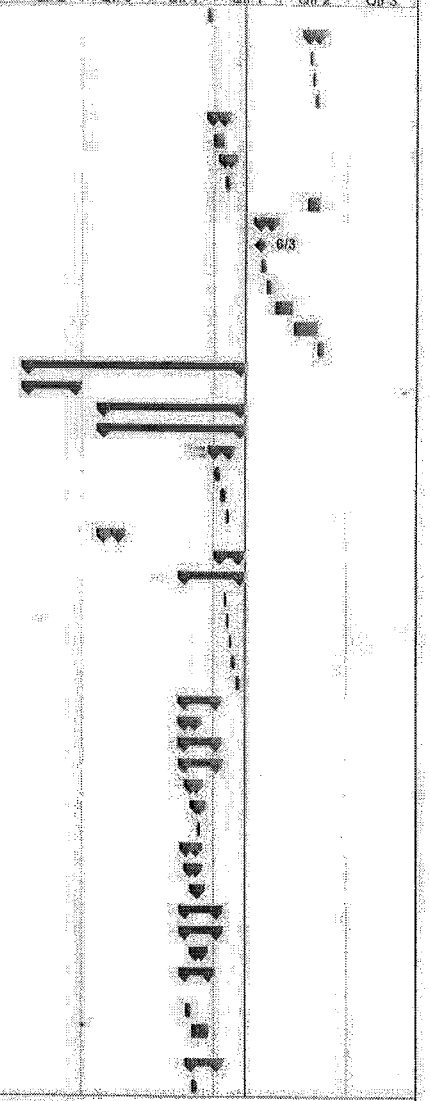
Project: Latest schedule 1
Date: Tue 14/2/12

Task | Split | Milestone | Summary | Project Summary | External Tasks | External Milestone | Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | Progress | Deadline

PREPARED BY: K.ELAMAREN(RAMESH)
QXY RESOURCES PTE LTD.

PROPOSED ERECTION OF A 3-STOREY INDOOR SPORTS HALL & 5-STOREY CLASSROOM BLOCK AND ADDITIONS & ALTERATIONS TO EXISTING JURONG WEST PRIMARY SCHOOL ON LOT 03803L MK06 AT JURONG WEST 61

ID	Task Name	Duration	Start	Finish	C.U.S Start Date	C.U.S Finish Date	Schedule %	% Complete
223	Piling works	7 days	Thu 22/12/11	Thu 29/12/11	22/12/2011	29/12/2011	100%	0%
224	**Playground**	11 days	Fri 11/5/12	Wed 23/5/12	11/5/2012	23/5/2012	0%	0%
225	Drainage	3 days	Fri 11/5/12	Mon 14/5/12	11/5/2012	14/5/2012	0%	0%
226	RC Base	3 days	Tue 15/5/12	Thu 17/5/12	15/5/2012	17/5/2012	0%	0%
227	EPDM	5 days	Fri 18/5/12	Wed 23/5/12	18/5/2012	23/5/2012	0%	0%
228	**Bus Lot and Car park**	14 days	Fri 30/12/11	Sat 14/1/12	30/12/2011	14/1/2012	100%	0%
229	Interlocking pavers	14 days	Fri 30/12/11	Sat 14/1/12	30/12/2011	14/1/2012	100%	0%
230	**Fire Engine Access**	7 days	Mon 16/1/12	Mon 23/1/12	16/3/12	26/3/12	100%	0%
231	Interlocking pavers	7 days	Mon 16/1/12	Mon 23/1/12	16/3/12	26/3/12	100%	0%
232	Reinstatement works to field	18 days	Tue 8/5/12	Thu 24/5/12	18/3/12	20/3/12	0%	0%
233	**Testing & Commissioning**	14 days	Tue 6/3/12	Wed 21/3/12	21/3/12	25/3/12	0%	0%
234	Power turn on	0 days	Tue 6/3/12	Tue 6/3/12	21/3/12	3/4/12	0%	0%
235	ACMV Fans	7 days	Tue 6/3/12	Tue 13/3/12	21/3/12	3/4/12	0%	0%
236	Fire protection works	7 days	Wed 14/3/12	Wed 21/3/12	15/3/12	29/3/12	0%	0%
237	Pre-RI & RI	21 days	Mon 26/3/12	Wed 18/4/12	26/3/2012	18/4/2012	0%	0%
238	BCA Inspection & Owner's inspection	27 days	Fri 20/4/12	Mon 21/5/12	20/4/2012	21/5/2012	0%	0%
239	Rectification and compliance to BCA	7 days	Tue 22/5/12	Tue 29/5/12	22/5/2012	29/5/2012	0%	0%
240	**Phase 1 B**	252 days	Tue 19/4/11	Mon 6/2/12	26/3/12	1/4/12	100%	100%
241	**Phase 1B A & A works (School holiday 28/5/2011 -26/6/2011)**	56 days	Tue 19/4/11	Wed 22/6/11	2/4/12	21/5/12	100%	100%
281	**Phase 1B (School holiday 19/11/2011 - 31/12/2011)**	163 days	Mon 1/8/11	Mon 6/2/12	25/4/12	21/5/12	100%	100%
282	**BLOCK A (OTHER ROOMS)**	163 days	Mon 1/8/11	Mon 6/2/12	22/4/12	10/5/12	100%	100%
283	**2nd storey New Media Resources Library room**	18 days	Mon 2/1/12	Sat 21/1/12	26/3/12	1/4/12	100%	100%
284	Carpet flooring	7 days	Mon 2/1/12	Mon 9/1/12	2/4/12	21/4/12	100%	100%
285	Timber slope	7 days	Tue 10/1/12	Tue 17/1/12	25/4/12	21/5/12	100%	100%
286	Filment works	4 days	Wed 18/1/12	Sat 21/1/12	22/5/12	28/5/12	100%	100%
287	**New counselling room**	18 days	Mon 1/8/11	Sat 20/8/11	1/10/11	30/12/11	100%	100%
295	**2nd. Storey New LBS room**	23 days	Tue 10/1/12	Sat 4/2/12			100%	100%
301	**3rd.storey PAL room**	67 days	Mon 21/11/11	Mon 6/2/12			100%	100%
302	Demolish existing wall	3 days	Mon 16/1/12	Wed 18/1/12			100%	100%
303	New operable wall	3 days	Thu 19/1/12	Sat 21/1/12			100%	100%
304	Full height mirror	3 days	Mon 23/1/12	Wed 25/1/12			100%	100%
305	Timber flooring	5 days	Thu 26/1/12	Tue 31/1/12			100%	100%
306	Acoustical wall and ceiling	5 days	Wed 1/2/12	Mon 6/2/12			100%	100%
307	**Block B**	38 days	Mon 21/11/11	Tue 3/1/12			100%	100%
308	**BLOCK B - 1ST STOREY**	13 days	Mon 21/11/11	Mon 5/12/11			100%	100%
321	**BLOCK B - 2ND STOREY**	38 days	Mon 21/11/11	Tue 3/1/12			100%	100%
340	**BLOCK C**	38 days	Tue 22/11/11	Wed 4/1/12			100%	100%
341	**BLOCK C - 1ST STOREY**	7 days	Wed 30/11/11	Wed 7/12/11			100%	100%
344	**NEW WASHING AREA OUTSIDE**	3 days	Fri 9/12/11	Mon 12/12/11			100%	100%
345	NEW WASH BASIN WITH VANITY TOP	3 days	Fri 9/12/11	Mon 12/12/11			100%	100%
346	**NEW LSP (MATH)**	11 days	Thu 24/11/11	Tue 6/12/11			100%	100%
349	**NEW LSP (ENGLISH)**	7 days	Tue 29/11/11	Tue 6/12/11			100%	100%
352	**NEW MEETING ROOM**	3 days	Thu 8/12/11	Sat 10/12/11			100%	100%
354	**BLOCK C - 2ND STOREY**	38 days	Tue 22/11/11	Wed 4/1/12			100%	100%
355	**NEW STAFF ROOM (65PAX)**	38 days	Tue 22/11/11	Wed 4/1/12			100%	100%
356	**DEMOLISH EXISTING STORE AND WALL**	7 days	Wed 7/12/11	Wed 14/12/11			100%	100%
358	**NEW STAFF CHANGING ROOM (MALE & FEMALE)**	29 days	Tue 22/11/11	Sat 24/12/11			100%	100%
359	DEMOLISH OLD TOILET LAYOUT AND WALL	7 days	Tue 22/11/11	Tue 29/11/11			100%	100%
360	PROVIDE NEW TOILET LAYOUT WITH CHANGING AREA	21 days	Thu 1/12/11	Sat 24/12/11			100%	100%
361	**NEW STUDENT TOILET (MALE & FEMALE)**	30 days	Thu 1/12/11	Wed 4/1/12			100%	100%
362	Demolition of existing toilet	7 days	Thu 1/12/11	Thu 8/12/11			100%	100%



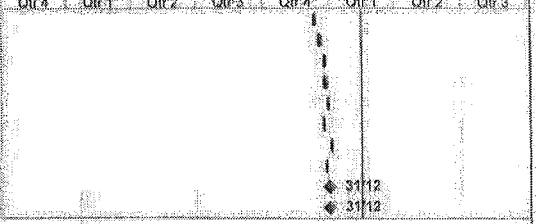
Project: Latest schedule 1
Date: Tue 14/2/12

Task
Split
Milestone
Summary
Project Summary
External Tasks
External Milestone
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
Progress
Deadline

PREPARED BY: K.ELAMAREN(RAMESH)
QXY RESOURCES PTE.LTD.

PROPOSED ERECTION OF A 3-STOREY INDOOR SPORTS HALL, A 5-STOREY CLASSROOM BLOCK AND ADDITIONS & ALTERATIONS TO EXISTING JURONG WEST PRIMARY SCHOOL ON LOT 03863L MK06 AT JURONG WEST 61

ID	Task Name	Duration	Start	Finish	C.U.S. Start Date	C.U.S. Finish Date	Schedule %	% Complete
363	Brickwall	5 days	Fri 9/12/11	Wed 14/12/11			100%	100%
364	Waterproofing works	7 days	Thu 15/12/11	Thu 22/12/11			100%	100%
365	1st fix Plumbing works	4 days	Fri 23/12/11	Tue 27/12/11			100%	100%
366	Tiling wall and floor works	7 days	Fri 23/12/11	Fri 30/12/11			100%	100%
367	Ceiling works	4 days	Wed 28/12/11	Sat 31/12/11			100%	100%
368	Doors	2 days	Fri 23/12/11	Sat 24/12/11			100%	100%
369	Toilet cubicle	3 days	Mon 2/1/12	Wed 4/1/12			100%	100%
370	Sanitary installation & Completion	3 days	Mon 26/12/11	Wed 28/12/11			100%	100%
371	Water turn on	0 days	Sat 31/12/11	Sat 31/12/11			100%	100%
372	Inspection	0 days	Sat 31/12/11	Sat 31/12/11			100%	100%



Project: Latest schedule 1
Date: Tue 14/2/12

Task	Project Summary	Inactive Milestone	Manual Summary Rollup	Progress			
Split	External Tasks	Inactive Summary	Manual Summary	Deadline			
Milestone	External Milestone	Manual Task	Start-only				
Summary	Inactive Task	Duration-only	Finish-only				

PREPARED BY: K.ELAMAREN(RAMESH)
QXY RESOURCES PTE.LTD.

SECTION 4

PROGRAMME

4.2 Authority Submission Status for M&E Services - 1st Submission

Service	Authority	Original Submission		Comments/Resubmission						Approval/
		Scheduled	Actual	Comment	Resubmit	Comment	Resubmit	Comment	Resubmit	Clearance
Application for Electricity Supply	SP Services Ltd	N.A								
Power Supply Substation	SP PowerGrid Ltd	N.A								
Metering Layout	SP Services Ltd	N.A								
Sanitary Installation	PUB Water Reclamation (Network) Dept	15/9/10	16/12/10							17/12/10
Domestic Water Supply	PUB (Water Supply) Network Dept	2/5/11	31/5/11	14/6/11	1/7/11					18/7/11
Gas Supply Installation	City Gas Pte Ltd	N.A								
Air Conditioning & Ventilation Inst.	FSSD	N.A								
Fire Fighting & Alarm Installation	FSSD	5/9/11	10/11/11							25/11/11
Telephone Installation	TFCC	N.A								
Broadband Co-axial Cable System (BCS)	Starhub Cable Vision	N.A								
Fuel Storage	FSSD	N.A								
	NEA (Pollution Control)	N.A								

SECTION 4

PROGRAMME

4.3 Authority Submission Status for M&E Services (Amendments) - 2nd Submission – NOT USED

Service	Authority	Original Submission		Comments/Resubmission						Approval/
		Scheduled	Actual	Comment	Resubmit	Comment	Resubmit	Comment	Resubmit	Clearance
Application for Electricity Supply	SP Services Ltd									
Power Supply Substation	SP PowerGrid Ltd									
Metering Layout	SP Services Ltd									
Sanitary Installation	PUB Water Reclamation (Network) Dept									
Domestic Water Supply	PUB (Water Supply) Network Dept									
Gas Supply Installation	City Gas Pte Ltd									
Air Conditioning & Ventilation Inst.	FSSD									
Fire Fighting & Alarm Installation	FSSD									
Telephone Installation	TFCC									
Broadband Co-axial Cable System (BCS)	Starhub Cable Vision									
Fuel Storage	FSSD									
	NEA (Pollution Control)									

SECTION 5

PROJECT RECORDS

5.1 List of Internal Files

Standard Files

File Ref:		File Ref:	
- Owner / Architect / Other Consultants	✓	- Architect	✓
- Authorities	✓	- Other Consultants	✓
- Contractors	✓	- CC	✓
- CF	✓	- PQP/QSP	✓

Project Files to be initiated by PM as and when required

File Ref:		File Ref:		File Ref:	
EC/MC	✓				

(✓*where applicable*)

SECTION 5

PROJECT RECORDS

5.2 Filing of Drawings

The following team members shall take charge of filing of drawings, stamping "SUPERSEDED" drawings, etc.

Description	Team Member
Incoming Architectural Floor Plans	Soft Copy – Server Hard Copy – Kevin Kee
Incoming Architectural Sketches/Details	
Incoming Structural Drawings	
M&E Drawings	
- Electrical Installation	Derek Ong
- Lift & Escalator Installation	Derek Ong
- Air Conditioning & Ventilation Installation	Kevin Kee
- Fire Fighting & Alarm Installation	Kevin Kee
- Plumbing & Sanitary Installation	Kevin Kee
- Swimming Pool & Filtration Installation	-
Other Drawings	-

SECTION 6

INTERFACING

6.1 Method of Interface

Description	Method of Interface	
Client's Review & Approval	M&E Design Report	✓
	Pre-planned meeting at fixed intervals	✓
	Telefax, letter and telephone	✓
	Email	✓
Interface With External Design Teams	M&E Design Report	✓
	Pre-planned meeting at fixed intervals	✓
	Telefax, letter and telephone	✓
	Email	✓
Interface Between Internal Design Teams	Telephone	✓
	Email	✓
	Internal Project Team Meeting	✓
	Circulation of Information	✓

(✓*where applicable*)

SECTION 6

INTERFACING

6.2 Internal Design Interface – NOT USED

Item No.	Description*	Required From	Required By	Date Required	Remarks

** Information required by INTERNAL DESIGN TEAM MEMBERS*

SECTION 6

INTERFACING

6.3 Circulation of Documents to External Parties

	Code: A - Approval Required C - For Comments I - For Information Only	Client/ Client Rep.	Client's Project Manager	Architect	Structural Engineer	Quantity Surveyor	
1.	**Letters/Fax:**						
a.	Project Design	A	C	C	I	I	
b.	Project Administration	I	C	C	I	I	
c.	Project Cost Estimate/Contract Cost	A	C	I	I	I	
2.	**Drawings**						
a.	Outline Design Drgs.	C	C	C	C	I	
b.	Sketch Design Drgs.	C	C	C	C	I	
c.	Final Design Drgs.	A	C	C	I	I	
d.	Shop Drawings	-	C	C	C	I	
e.	As Built Drgs.	I	I	I	I	I	
3.	**Other Document**						
a.	Specification	A	C	I	I	I	
b.	Tender Document	A	C	I	I	I	
c.	Tender Evaluation Report	-	-	-	-	-	
d.	Design Report	A	C	C	I	I	
e.	Progress Report	I	I	I	I	I	
f.	Financial Report	-	-	-	-	-	
g.	Minutes of Meeting	-	-	-	-	-	
h.	Inspection Report	I	I	I	I	I	
i.	Testing & Comm. Report	I	I	I	I	I	
j.	O & M Manual	I	-	-	-	-	

SECTION 7

WORK AUTHORISATION

Activity \ Authorised Signatories	PD	QP	PM	AE	SS
General Correspondences with Client	✓		✓		
General Correspondences with Other Consultants			✓	✓	
M&E Cost Estimate Report	✓				
M&E Design Report	✓		✓	✓	
Check Prints	✓		✓		
Tender Drawing Approval	✓		✓		
Tender Specification Approval	✓		✓		
List of Tenderers	✓		✓		
Tender Questionaires			✓		
Tender Reports	✓				
Draft Letter of Award			✓		
Review of Contractor's Shop Drawing			✓	✓	
Review of Contractor's Technical Submittal			✓	✓	
Review of Contractor's Sample Submittal			✓	✓	
Contractor's Request for Deviation	✓		✓		
Progress Payment Valuation Form	✓		✓		
Final Account Valuation	✓		✓		
Draft Variation Order			✓		
Engineer/Architect's Instruction/Direction			✓		
Site Instruction/Direction			✓		✓
Correspondence/Submission to Authorities		✓			

(✓*where authorised*)

Key to abbreviations:-

PD : Project Director
QP : Qualified Person
PM : Project Manager/Assistant Project Manager
AE : Assistant Engineer
SS : ACEPL Site Staff

SECTION 8

DESIGN INPUT & METHODOLOGY

8.1 List of Client's Standards, Reference Documents or Brief

ITEM	KEPT BY
MOE Handbook	ACEPL Intranet

8.2 List of Applicable Code of Practice and Regulations

Electrical Wiring	BS	SS	IEE	~~NFPA~~	
Lightning Protection System	~~BS~~	SS			
~~Emergency Voice Communication System~~	~~BS~~	~~SS~~	~~NFPA~~		
Air Conditioning & Ventilation Installation	~~BS~~	~~AS~~	~~NFPA~~	SS	~~MS~~
Lift ~~& Escalator~~ Installation	~~BS~~	SS			
~~Sprinkler System~~	~~BS~~	~~SS~~	~~NFPA~~	~~AS~~	~~LPC~~
~~Wet Riser System~~	~~BS~~	~~SS~~	~~NFPA~~	~~AS~~	~~MS~~
Automatic Fire Alarm System	~~BS~~	SS	~~NFPA~~	~~AS~~	~~MS~~
Sanitary System	~~BS~~	SS	~~NFPA~~	~~AS~~	~~MS~~
Plumbing System	~~BS~~	SS	~~NFPA~~	~~AS~~	~~MS~~
~~Town Gas/LPG Supply System~~	~~BS~~	~~SS~~	~~NFPA~~	~~AS~~	
~~Boiler and Steam Supply System~~	~~ASME~~	~~BS~~	~~AS~~		
~~Mechanical Smoke Control System~~	~~BS~~	~~NFPA~~	~~AS~~		

(Delete where necessary)

SECTION 8

DESIGN INPUT & METHODOLOGY

8.3 List of Design Guide or Handbook Used

Carrier's Handbook of Air Conditioning System Design

ASHRAE Handbooks

Institute of Plumbing's Plumbing Services Design Guide

8.4 List of Applicable Quality System Procedures

Alpha Consulting Engineers Pte Ltd's Quality Management System Procedures

Section	Title	✓ where applicable
M1	Preparation of Consultancy Offer	✓
M2	Project Commissioning and Service Agreement	✓
M3	Design Control	✓
M4	Design Change Control	✓
M5	Tender Process and Evaluation	✓
M6	Authority Submission	✓
M7	Construction Process Control	✓
M8	Testing and Commissioning	✓
S1	Document Control	✓
S2	Documentation of Quality & Environmental Management System Procedure	✓
S3	Documentation of Project Quality Plan	✓
S4	Specification Control	✓
S5	Library Control	
S6	Archive Control	✓
S7	Filing Control	✓
S8	Drawing Control	✓
S9	Administration Control	✓
S10	Purchasing Control	
S11	Training Control	
S12	Computer Control	
QE1	Quality & Environmental System Audit	✓
QE2	Feedback Reporting	✓
QE3	Clients Feedback	✓
QE4	Management Review	✓

8.5 List of Software Used For Design/Analysis

DESCRIPTION/ PACKAGE NAME	VERSION	SUPPLIER/ SOURCE	PURPOSE	
Calculux	2.30	Philips	Lighting design	✓
Cophos	3.31	Zumtobel	Lighting design	
Carrier E20-II	3.21	Carrier	Programme for determination of heat load, duct size and its losses, etc.	✓
Gensize 2	2.1	Onan	Generator sizing	
Lift Traffic	-	Alpha Consulting Engineers Pte Ltd	Lift traffic calculation	
Econdial	2.5	Merlin Gerlin	Design for low voltage network	
Hyena	4.00.1	ACADS-BSG	Fire Sprinkler & Hydrant Analysis	
Fault Level Calculation	-	Alpha Consulting Engineers Pte Ltd	Calculation of voltage drop and fault level	

(✓*where applicable*)

SECTION 9

ENVIRONMENTAL CONSIDERATIONS

9.1 Sustainable Design Features / Criteria

Item	Remarks
Green Mark criteria	✓
Green Design Features	N.A

9.2 Site PPE Requirement

The necessary Personal Protective Equipment (detailed below) shall be provided by the main contractor / Company in accordance to the site EHS requirements prior to the site monitoring.

PPE	✓ where applicable
Safety Helmet	✓
Safety Shoes	✓
Eye Protection	✓
Ear Protection	✓
Safety Harness / Belt	✓
Others:	

9.3 Site Emergency Preparedness

Site staff shall comply with the site emergency preparedness and response procedure, established by the main contractor / owner, which shall include the following details.

Items	✓ where applicable
Evacuation Route	✓
Emergency Exit	✓
Assembly Point	✓
Emergency Contact List / Person	✓
Alarm system / methods	✓

SECTION 9

ENVIRONMENTAL CONSIDERATIONS

9.4 Reporting of Environmental Non-conformances

When encountering environmental non-conformances, Site Staff shall be responsible to feedback to the main contractor.

9.5 List of Applicable Environmental Management System Procedures

Alpha Consulting Engineers Pte Ltd's Environmental Management System Procedures

Section	Title	✓ where applicable
E1	Aspect / Impact Identification, Risk Assessment & Risk Control	✓
E2	Identifying Legal & Other Requirements	✓
E3	Objectives, Targets & Programmes	✓
E4	Communication	✓
E5	Emergency Preparedness & Response	✓
E6	Monitoring & Measurement	✓
E7	Control of Air & Noise Pollution	✓
E8	Management of Wastes	✓

SECTION 10

CLIENT'S REQUIREMENTS

10.1 List of Output Required by Client:-

Item	* Remarks
M&E Design Report	A
M&E Cost Estimate Report	I, A
Pre-Qualification of Tenderers	-
Tender Documents	A
Tender Report	A
Payment Valuation for QS	I
Certificates of Supervision for TOP/CSC	Re

* *Remarks*

A: for approval *C: for comment* *I: for Information* *Re: for record*

Other purposes and for action: please specify.

10.2 Specific Procedures Required By Client *(If applicable)*

NOT USED

SECTION 11

LIST OF SUB-JOB

11.1 List of Sub-Job Numbers – NOT USED

Sub Job No	Description	Allocation Details