Alpha
Engineering Consultant

PROJECT QUALITY PLAN

PROPOSED CONDOMINIUM HOUSING
AT BEDOK RESERVOIR ROAD/BEDOK NORTH AVE 3

For

M/S BEDOK PROPERTIES PTE LTD

Copy No.	1

Prepared By: Loh Fook Yuen

Authorised By: Richard Teo

Date: 28 October 2005

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SECTION 1

QUALITY PLAN CONTROL AND DISTRIBUTION

1.1 List of Copy Holders

Copy No.	Copy Holder	Date of Issue
1	1308-PQP File	15 August 2002
2	Loh Fook Yuen	15 August 2002

1.2 Revision Record

Revision	Date of Issue	Section Reference	Page(s)	Remarks
0	15 August 2002	1 to 10	26	
1	30 August 2004	1 to 10	26	
2	28 October 2005	1 to 10	26	

SECTION 2

PROJECT INFORMATION

2.1 Project Description

Type of Development	

Statistics of Development	
Site Area, m²	10536.60
Nett Floor Area, m²	23532.67
Gross Floor Area, m²	26341.50
Covered Carpark, m²	7573
No. of Covered Carpark Lots	238
No. of Apartments/Houses	237
No. of Beds (for Hospitals)	-
No. of Guestroom (for Hotels)	-
No. of Blocks / No. of Storeys	4 Blocks of 15/16-Storeys
No. of Phases	1

2.2 Project Cost

M&E Services Cost Plan (S$ x 1M)									
Services	EI	ACVI	LEI	FFAI	PSI	SPFI			
Estimate	2.5	2.5	1.2	0.45	2.6	0.15			
Awarded	1.78	1.53	0.81	0.26	1.46	0.25			

Total Project Construction Cost (S$ x1M)			
	Site Clearance	Piling Works	Main Contract
Estimate	-	-	-
Awarded	-	1.17	38

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

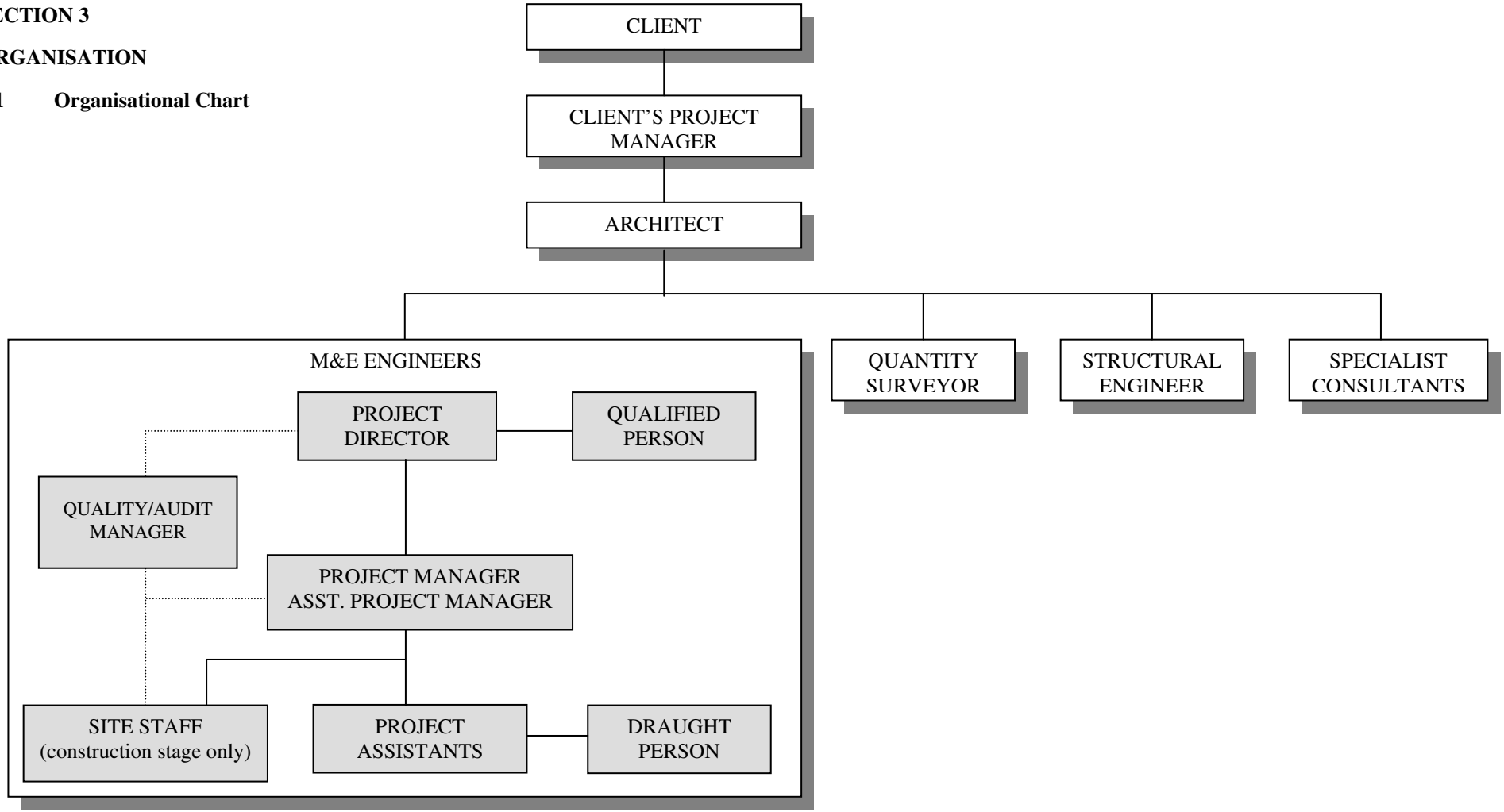
EJECTOR & DIVERTER	✓	SUMP PUMP	✓	FUEL OIL TANK		LIFT & ESCALATOR		PRESSURE VESSEL		HOISTS		FOAM	

(✓*where applicable*)

SECTION 3

ORGANISATION

3.1 Organisational Chart



SECTION 3

ORGANISATION

3.2 AEC's Project Team Member

TITLE		NAME
Project Director		Richard Teo (RT)
Qualified Person	Mechanical	Loh Chew Thong (LCT)
	Electrical	Richard Teo (RT)
Project Manager		Loh Fook Yuen (LFY)
Assistant Project Manager		Chong Lai Meng (CLM)
Project Assistant (Mech)		Sam Chong (SC)
Project Assistant (Elect)		Lim Chai Hoon (LCY)
Draughtsperson		Common Pool
Resident Engineer (M&E)		-
Assistant Resident Engineer (M&E)		-
Clerk-of-Work (M&E)		-

3.3 Client/Client's Representatives

Client:- Bedok Properties Pte Ltd

Address:- 1 Kim Seng Road Promenade #05-02
Great World City
Singapore 237994

Tel:- 6733 2822
Fax:- 6738 3800

Client's Representatives:-

Name of Firm	Contact Person	Contact
Bedok Properties Pte Ltd	Name: Mr K C Teo Position: Project Director	Tel: 6839 3809 Fax: 6738 3800 Handphone: - Email: kcteo@allgreen.com.sg
Bedok Properties Pte Ltd	Name: Mr Bernard Ang Position: Snr Clerk-of-Work (Architectural)	Tel: 6446 7306 Fax: - Handphone: - Email: -
Bedok Properties Pte Ltd	Name: Mr Tan Hwa Sai Position: Snr Clerk-of-Work (M&E)	Tel: 6446 7307 Fax: - Handphone: - Email: -
Bedok Properties Pte Ltd	Name: Mr Fong Eng Yeow Position: Resident Engineer	Tel: 6446 7306 Fax: - Handphone: - Email: -
	Name: Position:	Tel: Fax: Handphone: Email:
	Name: Position:	Tel: Fax: Handphone: Email:
	Name: Position:	Tel: Fax: Handphone: Email:

3.4 **Other Consultants** (Local)

Function / Name of Firm	Contact Person	Contact
Architect TAA Architects Pte Ltd	Name: Mr Eric Tay Position: Architect	Tel: 6438 1221 Fax: 6438 3611 Handphone: - Email: taapl@magix.com.sg
Quantity Surveyor Davis Landon & Seah Singapore Pte Ltd	Name: Mr Sunny Tan Position: Quantity Surveyor	Tel: 6222 3888 Fax: 6224 7089 Handphone: - Email: 4315@dls.com.sg
Structural Engineer Web Structures Pte Ltd	Name: Mr Huang Yu Position: Engineer	Tel: 6223 9208 Fax: 6220 7928 Handphone: - Email: webstruc@pacific.net.sg
Interior Designer NA	Name: - Position: -	Tel: - Fax: - Handphone: - Email: -
Lighting Consultant NA	Name: - Position: -	Tel: - Fax: - Handphone: - Email: -
Acoustic Consultant NA	Name: - Position: -	Tel: - Fax: - Handphone: - Email: -
Landscape Architect Belt Collins International Pte Ltd	Name: Ms Anna Tabo-Nair Position: Designer	Tel: 6223 8133 Fax: 6222 9602 Handphone: - Email: bci@beltcollins.com.sg

3.4 **Other Consultants** (Overseas) – **NOT USED**

Function / Name of Firm	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 Firm	Contract *	Contact Person	Contact
Main Contractor Woh Hup Pte Ltd		Name: Mr Koh Hong Whatt Position: Project Manager	Tel: 6385 8585 Fax: 6272 3322 Handphone: - Email: koh_hongwhatt@wohhup.com
Air Conditioning Installation Sub-Contractor Sanyo Air-conditioners Manufacturing (S) Pte Ltd		Name: Mr Leong Whoi Pheng Position: Project Manager	Tel: 6265 7777 Fax: 6265 6856 Handphone: 9663 8521 Email: info@samsin.com.sg
Plumbing & Sanitary Installation Sub-Contractor Chia Hin Building & Plumbing Construction Pte Ltd		Name: Mr Spencer Choo Eyap Sheng Position: Operation Director	Tel: 6346 6113 Fax: 6346 6112 Handphone: 9152 2473 Email: -
Electrical Installation Sub-Contractor King Wan Construction Pte Ltd		Name: Mr Phung Hee Thong Position: Project Manager	Tel: 6368 4300 Fax: 6365 7675 Handphone: 9018 0922 Email: kwnet@singnet.com.sg
Lift & Escalator Installation Sub-Contractor Otis Elevator Co (S) Pte Ltd		Name: Mr Muang Muang Co Position: Engineer	Tel: 6298 7733 Fax: 6297 2646 Handphone: - Email: -
Fire Fighting & Alarm Installation Sub-Contractor Deluge Fire Protection (SEA) Pte Ltd		Name: Mr William Siah Position: Project Manager	Tel: 6862 3688 / 6862 3866 Fax: 6862 3600 Handphone: 9718 8443 Email: admin@deluge.com.sg
Swimming Pool Filtration Plant Installation Sub-Contractor Aquatech Products & Service Pte Ltd		Name: Mr Jufri B Abdullah Position: S. Project Executive	Tel: 6842 1188 Fax: 6842 0168 Handphone: - Email: aqpspool@pacific.net.sg
MV System Installation Sub-Contractor Kembla Air-con (S) Pte Ltd		Name: Mr Win Naung Position: Project Manager	Tel: 6747 3600 Fax: 6747 2984 Handphone: 9423 7280 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:	Mr Francis Chang	6823 8555
(a) Sub-Station		
(b) Diversion		
SP Services:	Mr Teo Koi Heng	6823 8282
(a) Customer Supply		
(b) Installation		
(c) Meter Section		
(d) Road Lighting		
TFCC:		
(a) SCV	Mr Abdul Ghani	6838 2861
(b) SingTel		
(c) IDA		
BCA:		
(a) Building Plan		
FSSD:		
(a) Building Plan		
(b) M&E Plan	Kwan Lian Sian	6848 1455
PUB (Water Supply) Network Dept:		
(a) Water Conservation		
(b) Plumbing Plan	Tham Tuck Kuan/Darren Wong	6731 3695/6731 3598
(c) Diversion		
PUB Water Reclamation (Network) Dept:		
(a) Building Plan/CBPU		
(b) M&E Plan	Han Kit Juan	6731 9155
(c) Diversion		
City Gas Pte Ltd:		
(a) Planning/Submission	Tan Kan Hock	6586 8899
(b) Installation/Inspection	Lim Teck Seng	6586 8872 / 9281 5977
PowerGas Pte Ltd		
(a) Diversion		
NEA (Pollution Control)		
(a) Planning/Submission		
(b) Inspection		

SECTION 4

PROGRAMME

4.1 Overall Programme

			2004												2005												2006					
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	J	F	M	A	M	J
1.	Contract Commencement																															
2.	Nominated Supplier/Sub-Contractor																															
3.	Electrical Substation																															
4.	Architectural Works																															
5.	M&E Services																															
6.	Sub-Structure Construction Period																															
7.	Super-Structure Construction Period																															
8.	TOP																															
9.	CSC																															

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		11/6/01							21/6/01
Power Supply Substation	SP PowerGrid Ltd		4/1/02	14/1/02	26/2/02		25/1/05		28/2/05	9/3/05
Metering Layout	SP Services Ltd									
Sanitary Installation	PUB Water Reclamation (Network) Dept	20/8/04	19/9/04							22/9/04
Domestic Water Supply	PUB (Water Supply) Network Dept	3/9/04	24/1/05	8/2/05	9/3/05					22/3/05
Gas Supply Installation	City Gas Pte Ltd	24/9/04	1/10/04		12/11/04					26/11/04
Air Conditioning & Ventilation Inst.	FSSD	1/10/04	11/4/05							29/4/05
Fire Fighting & Alarm Installation	FSSD	15/10/04	29/3/05							12/4/05
Telephone Installation	TFCC		20/2/04		14/10/04		1/2/05		17/6/05	5/7/05
Broadband Co-axial Cable System (BCS)	Starhub Cable Vision		20/2/04		14/10/04		1/2/05			1/3/05
Fuel Storage	FSSD									
	NEA (Pollution Control)									

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	✓
- 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:	

Files under the old Filing System

File Ref: 1308		File Ref: 1308		File Ref: 1308		File Ref: 1308		File Ref: 1308	
-GC	✓	-CM	✓	-VO	✓	-E-G	✓		
-PC	✓	-SM	✓	-AI/AD	✓	-A-G	✓		
-AE	✓	-EOT	✓	-EM/MC	✓	-L-G	✓		
-AM	✓	-SF	✓	-CO	✓	-F-G	✓		
-AA	✓	-SQ	✓	-SQ(M&E)	✓	-P-G	✓		
-BD	✓	-A/E/P-EI	✓	-S-G	✓				

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	Sam Chong
Incoming Architectural Sketches/Details	Sam Chong
Incoming Structural Drawings	Sam Chong
M&E Drawings	
- Electrical Installation	Lim Chai Hoon
- Lift & Escalator Installation	Lim Chai Hoon
- Air Conditioning & Ventilation Installation	Sam Chong
- Fire Fighting & Alarm Installation	Sam Chong
- Plumbing & Sanitary Installation	Sam Chong
- Swimming Pool & Filtration Installation	Sam Chong
Other Drawings	
- Interior Design	Lim Chai Hoon
- Landscape/Waterscape	Lim Chai Hoon

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	-	
b.	Project Administration	I	-	C	C	C	
c.	Project Cost Estimate/Contract Cost	A	-	I	-	C	
2.	**Drawings**						
a.	Outline Design Drgs.	A	-	C	C	-	
b.	Sketch Design Drgs.	I	-	C	C	-	
c.	Final Design Drgs.	I	-	C	C	-	
d.	Shop Drawings	-	-	-	-	-	
e.	As Built Drgs.	-	-	-	-	-	
3.	**Other Document**						
a.	Specification	A	-	I	-	-	
b.	Tender Document	A	-	C	-	C	
c.	Tender Evaluation Report	-	-	-	-	-	
d.	Design Report	A	-	A	-	-	
e.	Progress Report	-	-	-	-	-	
f.	Financial Report	-	-	-	-	-	
g.	Minutes of Meeting	I	-	I	-	-	
h.	Inspection Report	-	-	-	-	-	
i.	Testing & Comm. Report	-	-	-	-	-	
j.	O & M Manual	-	-	-	-	-	

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 Questionnaires			✓		
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 : AEC Site Staff

SECTION 8

DESIGN INPUT & METHODOLOGY

8.1 List of Client's Standards, Reference Documents or Brief – NOT USED

ITEM	KEPT BY

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 Engineering Consultant'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 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	
Q1	Quality System Audit	
Q2	Feedback Reporting	✓
Q3	Clients Feedback	
Q4	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 Engineering	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 Engineering	Calculation of voltage drop and fault level	

(✓*where applicable*)

SECTION 9

CLIENT'S REQUIREMENTS

9.1 List of Output Required by Client:-

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

** Remarks*

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

Other purposes and for action: please specify.

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

a. Progress Claim

i. All contractors to submit their claim by every 26th of the month.

ii. Consultant to evaluate the claim within 2 weeks time.

b. Authority levels for initiating variations are agreed and established with Client through email/letter.

SECTION 10

LIST OF SUB-JOB

10.1 List of Sub-Job Numbers – NOT USED

Sub Job No	Description	Allocation Details