

**PERUNDING  
AZIZ, AZALI & TEE**  
SDN BHD  
**CIVIL & STRUCTURAL CONSULTING  
ENGINEERS**



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# **COMPANY PROFILE & CAPABILITY STATEMENT**

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## **Perunding Aziz, Azali & Tee Sdn Bhd**

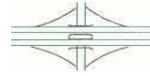
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This Statement of Capability describes **Perunding Aziz, Azali & Tee Sdn Bhd** (PAAT) establishment as a Structural Engineering Consulting firm. It contains information on the firm's setup, the professional team, design management and resources.

**Perunding Aziz, Azali & Tee Sdn Bhd** (PAAT) was incorporated in 1997 in meeting the demand for Professional Engineering Consultancy Services in Civil & Structural Engineering fields. Over the years our services extended beyond Malaysia and have since included overseas assignments such as Pakistan, Papua New Guinea and most recently in the Middle-East.

PAAT has established itself as a multi-disciplined engineering consulting firm with its core business primarily in the structural engineering design of high-rise buildings and mixed developments, industrial and institutional buildings. Our services also cover major infrastructures, bridges and highways.

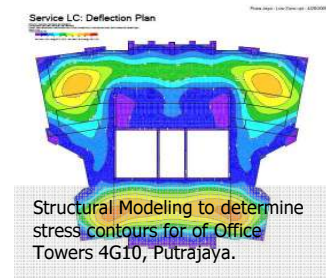
Our team of professional engineers is the backbone of our firm. PAAT has always maintained a team of dynamic, qualified and technically competent design professionals supported by CAD technicians and site supervisory team.

We've invested generously in upkeeping our advanced computer networking infrastructure, high-speed broadband Internet facilities and state-of-the art engineering design software and hardware facilities to enhance our design office capability.

PAAT has accumulated throughout its consulting practice; the technical 'know-how' in solving complex structural and foundation problems towards achieving the most desired engineering solutions by adopting value added design and best-engineering practice.

**Quality Policy.** PAAT is committed to providing quality services to its clients by establishing and maintaining a documented Quality Management System conforming to the International Standards Organization (ISO). In 2007 our Quality Management System had been certified to ISO 9001: 2000.

## 1.0 INTRODUCTION & COMPANY OVERVIEW



This Statement of Capability describes **Perunding Aziz, Azali & Tee Sdn Bhd (PAAT)** Professional Consultancy Services. It contains information on the firm's core business in professional consultancy services and related services.

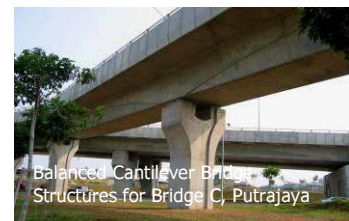
## 2.0 PROFESSIONAL CONSULTANCY SERVICES

Our core business as a Professional Consulting Engineers includes the following field of services:

- Structural Engineering Design and Consultancy Services:
  - High-rise real estate properties for office, residential and commercial buildings
  - Government office and institutional buildings
  - Landed residential and commercial properties – Villas and bungalows properties and resort homes.
  - Industrial buildings – aircraft hangers and warehouses.
- Geotechnical, Seismic and Foundation Design Services:
  - 'Deep Basement' design and construction
  - Earthquake resistance and ductility structures analysis
  - Foundation Engineering design and construction
  - Slope and ground stability analysis and design
- Civil Works and Major Infrastructures:
  - Roads, Highways and Bridges
  - Stormwater Management Engineering and Drainage
  - Main Water Supply Scheme
  - Sewerage and Treatment Plant Expert Services

Value Engineering Design Services (VED):

Alternative design for cost optimization is carried out to all our projects. Alternative design options particularly on foundation systems and superstructures have proven to be cost effective, efficient and build ability for various constraints and limitations.





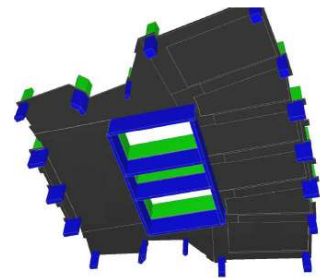
This Statement of Capability describes **Perunding Aziz, Azali & Tee Sdn Bhd (PAAT)** Scope of Consultancy Services. It contains a typical detailed scope of design and consultancy services for major international assignments.

### 3.0 SCOPE OF DESIGN & CONSULTANCY SERVICES (Continue)

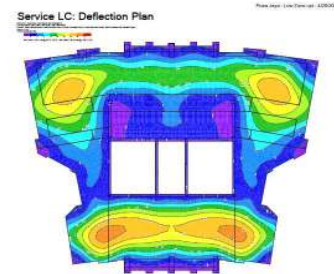
Our detailed scope of design and consultancy services is best described as in the project implementation stages. Every project is special and the scope shall include but not necessarily limited to the followings:

#### (a) Concept & Preliminary Design

- i) Investigate all available data or information relating to the project and which are relevant to the works.
- ii) Prepare tender documentation for soil investigation work including tender evaluation and periodic site supervision.
- iii) Advise the Client on the necessity for detailed survey data, investigations or tests which may be required for the proper design and construction of the works and to arrange for these to be carried out on his behalf, and to consider and advise on the results of such special surveys, investigations or tests.
- iv) Develop the design in collaboration with the Client, Architect, MEP Engineers, Quantity Surveyor, ID Designer, ICT and other team member.



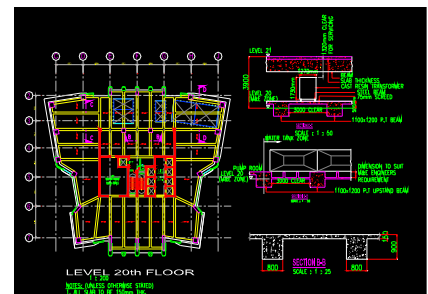
Typical Schematic Concept Design at Preliminary Stage (Parcel 4G10, Putrajaya)



#### (b) Working Drawing Stage

The following duties as and when necessary may be carried out:

- i) Prepare Client's approved design, specifications and drawings necessary to enable the contractors to carry out the Contract.
- ii) Prepare detailed design engineering calculations relating to the building work and submit to the municipal authorities for necessary building engineering plan approval.
- iii) Where applicable, prepare the related infrastructure design and drawings for earthworks, roads and drains, water supply and sewerage works and to submit to the relevant utility services authorities.



This Statement of Capability describes **Perunding Aziz, Azali & Tee Sdn Bhd** (PAAT) Scope of Consultancy Services. It contains information on the firm's core business and specialist services. (Continue)

### 3.0 DETAILED SCOPE OF DESIGN & CONSULTANCY SERVICES

#### (c) Tender Stage

- i) Develop detailed engineering design of the foundation system, basement and wall structures and super-structural design. Preparation of drawings with Specifications for tender documentation.
- ii) Prepare standard and full engineering notes for all tender drawings.
- iii) Advise relevant parts of the Conditions of Contract, Forms of Tender and invitations to tender, as may be necessary to enable the Works to be tendered for or otherwise instructed by the Client.



Tender Document and Engineering Drawings are prepared according to Contract and Tender Strategy

#### (d) Construction Stage

- i) Advise on the issuance of civil & structural stage completion certificates for interim payments to Contractor(s).
- ii) Issue instructions to Contractors and making periodic visits and attend site meetings and resolving site problems as and when necessary.
- iii) Assist in settling disputes or difference which may arise between the Client and Contractors.
- iv) Qualified resident engineers; clerk-of-works and technicians shall be employed for full time standing supervision.



Various stages of construction of 1300 Units Residential Apartment Units, Presint 18, Putrajaya



#### (e) Completion Stage

- i) Advise on completion certificate, extension of time and contract requirements.
- ii) Prepare and submit "as-built" plans to the relevant authority to obtain Certificate of Statutory Completion.
- iii) Preparation of Handing Over procedures, defects List and Certificate of Making Good Defects.



Completion of a typical apartment in Presint 18, Putrajaya requires documentation and certifications.

Brief description of completed High-rise Office/Commercial and Residential projects undertaken by **Perunding Aziz, Azali & Tee Sdn Bhd (PAAT)**. Our extensive innovative design in High-rise Structures would enhance project viability.

**MINISTRY OF HOUSING & LOCAL GOVERNMENT HEAD OFFICE, PARCEL 4G10, PRECINCT 4, PUTRAJAYA MALAYSIA**

Client: Putrajaya Holdings Sdn Bhd  
Construction Cost = RM 298 Million



**4.0 SELECTED BRIEF SUMMARY OF HIGHRISE PROJECTS (CONTINUE)**

39-storey office tower with M&E room transfer levels and 4 levels basement. Deep-basement design with 'top-down' construction technique was adopted for speed and cost advantage. Super-structures utilising the full potential of PT System by adopting a beamless slab spanning of up to 16.8m.

**GOVERNMENT OFFICE BUILDING, PARCEL 5G2, PRECINCT 4, PUTRAJAYA MALAYSIA**

Client: Putrajaya Holdings Sdn Bhd  
Construction Cost = RM 459 Million



2 Blocks of 20-storey office tower and 6 levels of adjoining Plaza and 2-3 level basement car park.

Super-structures utilising the full potential of post-tensioning system allowing a large-span floor structures of up to 8.4m and flat-slab system for faster and efficient construction.

**COMMERCIAL OFFICE BUILDING, PARCEL 4C11, PRECINCT 4, PUTRAJAYA MALAYSIA**

Client: Putrajaya Holdings Sdn Bhd  
Construction Cost = RM 120 Million



9-10 Storey office with 3 Levels of Basement.

Anchored, cantilevered contiguous bored pile in with open excavation for basement construction was adopted and proven to be a successful option. Flat slab system for office floors further optimise the floor-to-floor height.

**GOVERNMENT STAFF APARTMENT 18R12, PRECINCT 18, PUTRAJAYA MALAYSIA**

Client: Putrajaya Holdings Sdn Bhd  
Construction Cost = RM 140 Million



700 apartment units in one of the largest Putrajaya Core Island Residential Parcels: 4 Blocks of 8 to 20 storey including auxiliary buildings.

Shear wall using 'wall form' & 'tunnel form' system were largely utilised for speed and construction cost considerations.

**GOVERNMENT STAFF APARTMENT 18R13, PRECINCT 18, PUTRAJAYA MALAYSIA**

Client: Putrajaya Holdings Sdn Bhd  
Construction Cost = RM 120 Million



650 apartment units in one of the largest Putrajaya Core Island Residential Parcels: 8 Blocks of 8 to 20 storey including auxiliary buildings.

Shear wall using 'wall form' & 'tunnel form' system were largely utilised for speed and construction cost considerations.



It contains brief description of relevant Road, Highrise projects undertaken by **Perunding Aziz, Azali & Tee Sdn Bhd** (PAAT). Our extensive innovative and expert experience in High-rise Structure would be an added advantage to future Client.

#### 4.0 SELECTED BRIEF SUMMARY OF HIGHRISE PROJECTS (CONTINUE)

##### GOVERNMENT OFFICE BUILDING, PARCEL F1 & F2, PRECINCT 1, PUTRAJAYA MALAYSIA

Client: Putrajaya Holdings Sdn Bhd  
Project Cost = RM 380 Million



Government office development comprise the design and construction of Block F1 – 14 Storey and F2 – 9

Storey office tower, Piazza Level, Vehicular and 3-level basements. Precast construction is being developed towards encouraging the Industrialised Building System

##### MINISTRY OF INTERNATIONAL TRADE & INDUSTRY, KUALA LUMPUR, MALAYSIA

Client: Putrajaya Holdings Sdn Bhd  
Project Cost = RM 320 Million



Designed to Green Building Index 'Platinum' Rating 33-storey tower with changing geometry 4-storey podium and 2-level semi-basements. Post-tensioned flat slab floor system has been adopted. Seismic design has been considered.

##### 3C5, PUTRAJAYA, MALAYSIA

Client: Mayland Avenue Sdn Bhd  
Project Cost = RM 120 Million



Proposed 2 blocks of corporate offices with 3 levels of basements and retails at Ground Level.

Continuous bored piles were adopted for the basement retention system and post tensioned slabs and beams with flat slabs were used for the structures.

##### SERVICED APARTMENT & RETAIL PODIUM, AMPANG, MALAYSIA

Client: Eftra Builders Sdn Bhd / Naza Properties Sdn Bhd  
Project Cost = RM 230 Million



Proposed 2 blocks of 28-storey Serviced Apartment with 6-levels retails, podium and basement car parking. Due to the shallow hard layers formation, bored piling was adopted and shear walls for vertical members with conventional systems were used. Secantpile wall system has been adopted to facilitate basement construction.

##### KL METROPOLIS OFFICE TOWER, PLOT 7E1 AND 7E2, MALAYSIA

Client: NAZA TTDI Sdn Bhd  
Project Cost = RM 400 Million



Proposed 2 towers of 52-storey & 36-storey office tower with 4-level of basement car park. Design with top-down basement construction.

The towers are connected by a double floors linkage bridge. Seismic design has been considered.



It contains brief description of relevant Road, Highrise projects undertaken by **Perunding Aziz, Azali & Tee Sdn Bhd** (PAAT). Our extensive innovative and expert experience in High-rise Structure would be an added advantage to future Client.

#### **4.0 SELECTED BRIEF SUMMARY OF HIGHRISE PROJECTS**

##### **COMMERCIAL OFFICE BUILDING, PARCEL 2C2, PUTRAJAYA, MALAYSIA**

Client: Putra Perdana Construction  
Sdn Bhd  
Project Cost = RM 168 Million



Proposed 3 nos of 5-Storey annexed, 14-Storey building and 3-Level Carpark Basement.

The foundation system comprising of unusual combination of pilecap and piled-raft on existing foundation due to major changes to the architecture design and building plinth. Post-tensioned flat slabs were used for the structures.

##### **VERDI@SYMPHONY HILL, BLOCK 5 DEVELOPMENT, MALAYSIA**

Client: UEM Sunrise Berhad /  
Symphony Hills Sdn Bhd  
Project Cost = RM 270 Million



Proposed 2 Blocks of 45-Storey High-end Luxury Condominium with 4-Storey Podium Carpark.

A combination of 'Pre-bored' Jack-in precast RC Piles had been adopted for cost optimization during construction.

The superstructure utilized extensive Shear wall system with transfer beam system at podium level. 3D-Lateral stability analysis using ETABS had been performed.

##### **SURUHANJAYA PILIHANRAYA MALAYSIA (SPR), PARCEL 2C10, PUTRAJAYA , MALAYSIA**

Client: Putrajaya Holdings Sdn Bhd  
Project Cost = RM 110 Million



Proposed 10-Storey Office Tower with 3-Level of Basement, Top Down Construction.

Diaphragm Wall system with combination of plunged-in column for top-down basement construction with partial 'empty bored' for bored-pile foundation system

Post-tensioned flat slabs were used for the super-structures due to limited floor-floor height and design optimization.

It contains brief description of relevant institutional projects undertaken by **Perunding Aziz, Azali & Tee Sdn Bhd (PAAT)**. Our extensive innovative and expert experience in Institutional Buildings would be an added advantage to future Client.

#### 4.1 SELECTED BRIEF SUMMARY OF INSTITUTIONAL BUILDINGS

##### **Road Transport Department (JPJ) Main Data Centre Cyberjaya, Selangor, Malaysia**

Client: Jabatan Pengangkutan Jalan  
Project Cost = RM 51 Million



Located within the Cyberjaya Flagship, the Jabatan Pengangkutan Jalan Data Centre could probably be the fastest completion of design and build project. From sketch design to completion and handing over complete with full Certificate of Fitness, the team managed to accomplish its mission within 18 months period.

##### **Inland Revenue Board (LHDN) Training Centre Bangi, Selangor, Malaysia**

Client: Lembaga Hasil Dalam Negeri  
Project Cost = RM 38 Million



The complex comprises of Tax Academy, Training Centre and Accommodation Buildings. The cost-effective design was completed by an effective foundation and structural system. The use of pre-boring method was employed to resolve the hard layers were encountered.

##### **Islamic Science University of Malaysia (USIM), Nilai, Negeri Sembilan, Malaysia**

Client: University Sains Islam (M)  
Project Cost = RM 28 Million



Faculty of Quran and Sunnah Building, is located within University Sains Islam Malaysia in Nilai. Once completed it would be able to accommodate up to 2500 students at any session.

This compact yet practical layout comprising 5 numbers of large full-scale Lecture Theaters within relatively small footprints. TO accommodate the ceiling height constraints, the large-span transfer beams are achieved using the Post-tensioned structures.

##### **OFFICE SURUHANJAYA TINGGI BRUNEI, DIPLOMATIC ENCLAVE, PRECINCT 15, PUTRAJAYA, MALAYSIA**

Client: Suruhanjaya Tinggi Negara Brunei Darussalam / JBU-DLSM Sdn Bhd  
Project Cost = RM 28 Million



A medium scale 2-3 storey building on a slope and semi-basement design. A combination of 'Pre-bored' Jack-in precast RC Piles had been adopted for cost optimization during construction due to expected shallow hardlayer.

Conventional RC structure due to scale and architectural design.

##### **Marine Department Training Centre Klang, Selangor, Malaysia**

Client: Jabatan Laut Semenanjung Malaysia / Pembinaan TLN  
Project Cost = RM 41 Million



One of the challenges in designing the buildings and Jetty is of its location in relatively low lying area and soft marine clay within Pulau Indah, Klang.

The entire platform was built on surcharged soil to accelerate its primary consolidation. Founded on capping beam system on friction piles, the buildings were designed to accommodate relatively higher differential settlement.



It contains brief description of relevant Road, Highway & Bridge projects undertaken by **Perunding Aziz, Azali & Tee Sdn Bhd (PAAT)**. Our extensive innovative and expert experience in Road, Highway & Bridges Structure would be an added advantage to future Client.

## 4.2 SELECTED BRIEF SUMMARY OF ROAD, HIGHWAY & BRIDGE PROJECTS

### **East-West Highway Cameron Highlands-Gua Musang-Kenyir. Package 5: Chiku-Aring**

Client: JKR / HCM  
Project Cost = RM 80 Million



The '2<sup>nd</sup> East-West Highway' serves as an alternative link to the East Coast States, traversing through a scenic route of Cameron Highlands to Kenyir Lake in Terengganu. The 26km new road was designed to a modified R4 with massive undulating and hilly terrain. Our Designer utilized MOSS Design Software for optimization resulting in cost and time advantages to the Public Works Department.

### **East Coast Expressway - Bridge Design Package (10)**

Client: MTD Capital Berhad /  
Terratech Consultants  
Project Cost = RM 97 Million



The bridge packages of the extended phase of East-Coast Expressway (LPT-II) involve designing some 12 river and road bridges within Package 10. Challenges include foundation design with varying soil strata including changes in road alignment design requirement. The structures are completed and performed as designed.

### **Bridge Linking Putrajaya Sentral to B15 and Over Express Rail Link (ERL), Precinct 7, Putrajaya, Malaysia**

Client: Perbadanan Putrajaya  
Project Cost = RM 22 Million



Designed as a balanced cantilevered boxed-girder construction, the launching of the bridge deck was carried out within limited period over the life and commissioned ERL electrified tracks. Collaborated effort among team members has resulted in successful launching over a shortest possible period with no disruption to the service at all. Construction cost has been regarded as the most competitive.

### **Federal Route upgrading: Alor Gajah-Muar (Package 1), Melaka, Malaysia**

Client: TH Technologies  
-HCM JV  
Construction Cost = RM 150 Million



Part of the nation's road upgrading program: The upgrading to R5 type FR2 Alor Gajah – Muar federal road to a major urban alternative link. Our Designer utilized the MOSS Road Design Software to produce the most optimized design resulting in cost and time advantages to the Public Works Department, the Client.

### **Bridge 3 & 5 over ERL Tracks, Presint 5, Putrajaya, Malaysia**

Client: Perbadanan Putrajaya  
Project Cost = RM 18 Million



Bridge 3 and 5 links Putrajaya Presint 5 to Presint 20 and to Taman Selatan respectively. The bridges were designed within constraints of the ERL tracks reserve, vertical profile and unfavorable sub-surface geotechnical conditions.

### **Spine Road Linking Presint 7 to Presint 8, Putrajaya, Malaysia**

Client: Perbadanan Putrajaya  
Project Cost = RM 4 Million



The Spine Road was designed and built within a relatively short period in time for the commissioning of Perdana Leadership Foundation in Presint 7. Flexible enough to accommodate future expansion to full scale road and junctions. Design and built to incorporate the monorel bridge and the signature Seri Saujana Bridge abutment and underpass.

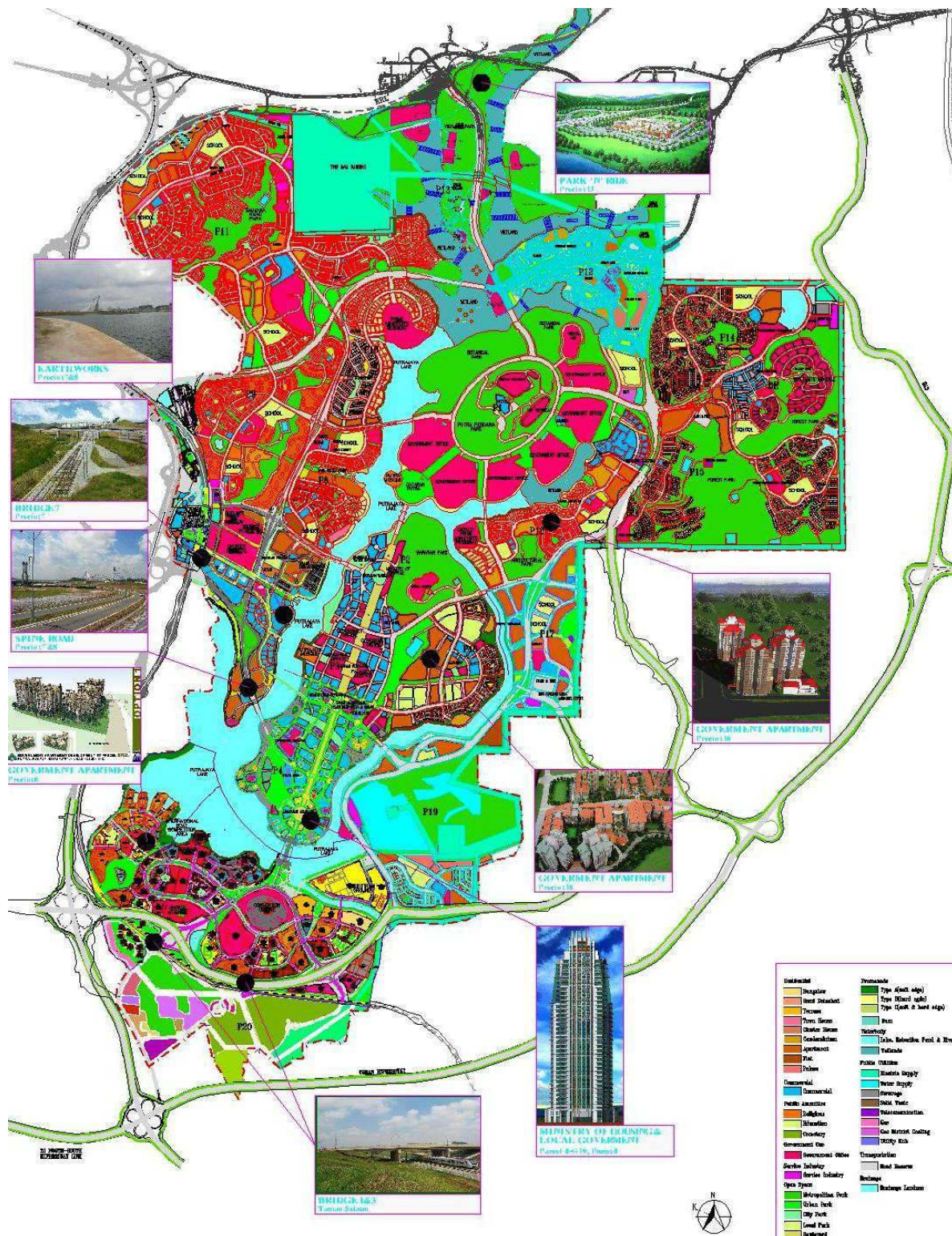


It contains brief description of relevant mixed development projects undertaken by **Perunding Aziz, Azali & Tee Sdn Bhd** (PAAT). Our extensive innovative and expert experience in mixed development would be an added advantage to future Client.

### 4.3 SELECTED MIXED DEVELOPMENT PROJECTS

**Putrajaya – Federal Government Administrative City.**

Our Consultancy Services include Major Infrastructures, Government and Residential Buildings, Parks & Landscape, Masterplanning and Post-construction Independent Audit.





It contains brief description of relevant masterplanning study & major infrastructure projects undertaken by **Perunding Aziz, Azali & Tee Sdn Bhd (PAAT)**. Our extensive innovative and expert experience in Master Planning Study & Major Infrastructure would be an added advantage to future Client.

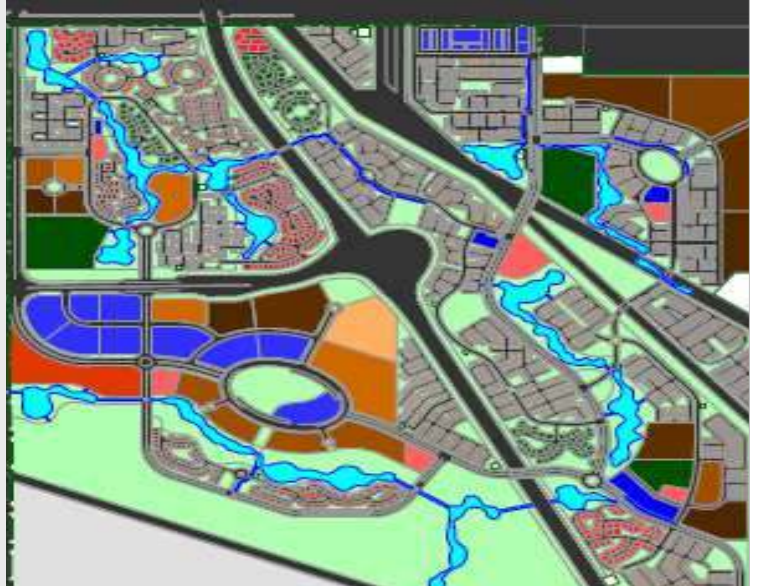
#### 4.4 SELECTED MASTERPLANNING STUDY & MAJOR INFRASTRUCTURE (CONTINUE)

##### **INTEGRATED TOWNSHIP OF 2,700 MIXED DEVELOPMENT AT BANDAR BUKIT RAJA, KLANG, Selangor**

Client: Sime Darby Property Berhad

**Local Authority: Majlis Perbandaran Klang, Selangor**

Engineering challenges include designing major infrastructure and utility services on the low-lying and soft marine-clay subsurface condition. Innovative methods introduced include the use of geosynthetic materials to minimize differential settlement of fill road platform embankment. Stormwater system utilizing swales proven to be economical and technically viable. Road and bridge design include complex interfacing with existing road and highway network within the vicinity of the site. Authorities incl: MPKlang, JKR Selangor, JPS Selangor, JPP/IWK, SYABAS, JMGS, DOE and One-Stop Agency of MPKlang.



##### **400 ACRES MIXED DEVELOPMENT AT MUKIM KAPAR, DAERAH KLANG, SELANGOR**

Client: Petaling Garden Berhad

**Local Authority: Majlis Perbandaran Klang, Selangor**

Similar to Bandar Bukit Raja development, interesting engineering challenges include designing major infrastructure and utility services on the low-lying and soft marine-clay subsurface condition. Innovative methods introduced include the use of geosynthetic materials to minimize differential settlement of fill road platform embankment. Stormwater system utilizing swales proven to be economical and technically viable. Authorities incl: MPKlang, JKR Selangor, JPS Selangor, JPP/IWK, SYABAS, JMGS, DOE and One-Stop Agency of MPKlang.



##### **PROPOSED 450 ACRES MIXED DEVELOPMENT AT SEMENYIH (BANGI LAND)**

Client: UEM Land Berhad / Symphony Hills Sdn Bhd

**Local Authority: Majlis Perbandaran Kajang Selangor**

In contrast, the site consists of undulating, hilly and ravine profile; engineering challenges include designing major infrastructure and utility services on with major cut and fill platforming to minimize disturbance to sensitive slope and providing optimum and cost-effective solutions to suit the Masterplanning..

Authorities incl: MPKajang, JKR Selangor, JPS Selangor, JPP/IWK, SYABAS, JMGS, DOE and One-Stop Agency of MPKlang.





It contains brief description of relevant masterplanning study & major infrastructure projects undertaken by **Perunding Aziz, Azali & Tee Sdn Bhd (PAAT)**. Our extensive innovative and expert experience in Master Planning Study & Major Infrastructure would be an added advantage to future Client.

## 4.4 SELECTED MASTERPLANNING STUDY & MAJOR INFRASTRUCTURE

### AGROPOLITAN PROJECT, TERENGGANU

Client: ECERDC

Local Authority: **Majlis Perbandaran Setiu & Besut**

Supporting Infrastructure – Utility Engineers for KW Planners for an interesting large-scale East-Coast Economic Region holistic master plan study for ECERDC.

The overall site consists of varying topographical features with undulating, hilly and ravine profile; engineering challenges include designing major infrastructure and utility services on with due consideration to technical-socio-economic constraints in providing optimum and cost-effective solutions to suit the Masteplanning.

Authorities incl: MP Besut, Setiu, SATU, JKR, JPS, JPP/IWK, SYABAS, JMGS, DOE, TNB, Telekom Malaysia and One-Stop Agencies.



### PUTRAJAYA PRESINT 5,6 & 20 LOCAL STRUCTURE PLAN

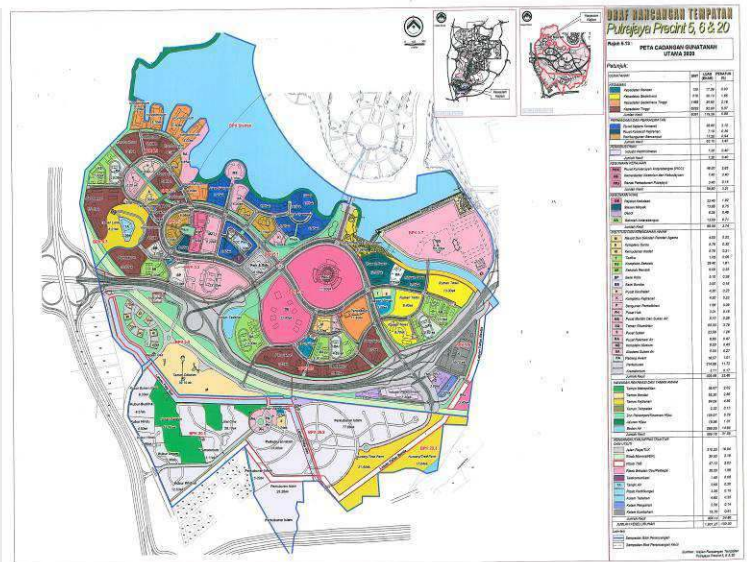
Client: Perbadanan Putrajaya

Local Authority: **Perbadanan Putrajaya**

Supporting Infrastructure – Utility Engineers for KW Planners for an interesting large-scale Local Structure Plan Infra-Engineering Study for Perbadanan Putrajaya.

The overall site consists of varying topographical features with completed and feature provision of buried utilities; engineering challenges include designing major infrastructure and utility services on with due consideration to present and future technical-socio-economic constraints in providing optimum and cost-effective solutions to suit the Local Structure Plan Study.

Authorities incl: Perbadanan Putrajaya, SYABAS, JPP/IWK, SYABAS, JMGS, DOE, TNB, Telekom Malaysia and One-Stop Agencies.



### KUALA TERENGGANU REDEVELOPMENT

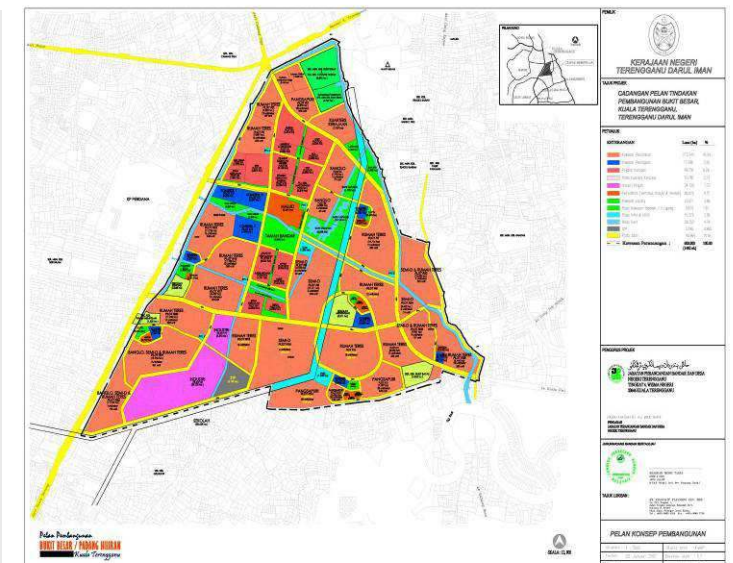
Client: TERENGGANU SEDC

Local Authority: **Majlis Perbandaran Kuala Terengganu**

Supporting Infrastructure – Utility Engineers for KW Planners for an interesting large-scale Development Masterplan & holistic study for Terengganu SEDC.

The overall site consists of varying topographical features with relatively flat profile; engineering challenges include designing major infrastructure and utility services on with due consideration to technical-socio-economic constraints in providing optimum and cost-effective solutions to suit the Masteplanning.

Authorities incl: MP KT, SATU, JKR, JPS, JPP/IWK, SYABAS, JMGS, DOE, TNB, Telekom Malaysia and One-Stop Agencies.





This Statement of Capability describes **Perunding Aziz, Azali & Tee Sdn Bhd (PAAT)** Organization Structure, Proposed Personnel and Professional Team. It contains information on the firm's organization structure and key personnel information assigned for the prospective design specialist services.

## 5.0 ORGANIZATION & PROFESSIONAL TEAM

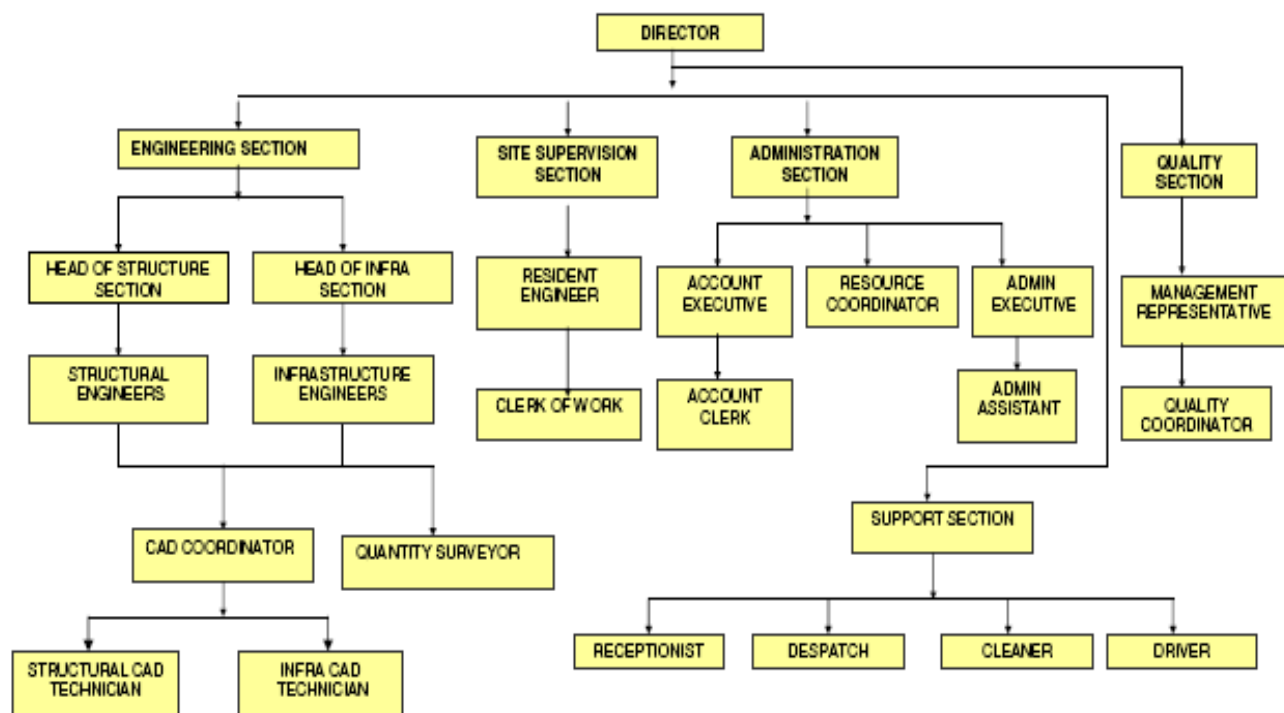
Our team of professional engineers is the backbone of our firm. PAAT has always maintained a team of dynamic, qualified and technically competent design professionals supported by CAD technicians and site supervisory team.

A hands-on Project Director Heads PAAT design team, while an experienced Professional Lead Engineer manages a team of dedicated and suitably trained Design Engineers. Supported by CAD Technicians the team is also well equipped with Quality Assurance Unit Manager and Project Administrative support staff. Highly skilled and trained Project Site Supervisory Staff report directly to the Lead Engineer during construction stage.

The followings are detailed description of the team complete with those based in the Design Office and Project Sites.



HEAD OFFICE ORGANISATION CHART  
BY DEPARTMENT



This Capability Statement describes **Perunding Aziz, Azali & Tee Sdn Bhd** (PAAT) Organisation Structure, The Management and its Professional Team. It contains information on the Management professional background and the key personnel professional description.

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## 5.1 KEY PERSONNEL (Continue)

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**Ir. Shaari Hashim**, Director, holds Bachelor of Engineering (Honors) in Civil Engineering, Leeds University, United Kingdom. A registered Professional Engineer of Malaysia, his career started in a property management firm in London and has a professional career span of some 25 years in engineering practice; he has served engineering organizations including an international engineering consulting firm and Public Works Department of Malaysia prior to his current partnership in PAAT.



**Ir. Shaari Hashim**  
B.Eng (Hons) Civil Eng.  
MIEM, P.Eng(M)

His overseas assignments include his early exposure in real estate projects in the United Kingdom, property development projects in Islamabad, Pakistan and Project Proposals in Port Moresby, Papua New Guinea. Locally, he has extensive experience in high-rise office and institutional buildings, residential and mixed development infrastructure projects.

Widely exposed to various scale of project development – from inception and planning to detailed engineering design and construction. Hands-on experience and directly involved as a Project Director and Team Leader for Design Management Team for various large scale engineering projects both in civil and structural engineering works.

Special interests:

**High-rise Structures:** Complex & large-span Structures, Post-tensioning System, Precast Elements, Deep Basement including Top-down Construction, Structural Façade review, Building Dynamic, Earthquake Resistance and Stability Analysis using F.E.M Computer Modeling Software. His other interests include Bridge and Geotechnical Engineering fields.

**Quality Management System.** A Quality Management Representative, Lead Auditor and in-house Trainer for Quality Management System. Lead the Company towards certification to ISO 9001:2000 in July 2007 and upgrade to ISO 9001:2008 in October 2009.

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This Statement of Capability describes **Perunding Aziz, Azali & Tee Sdn Bhd (PAAT)** Organisation Structure, Proposed Personnel and Professional Team. It contains information on the firm's organization structure and key personnel information.

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## 5.1 KEY PERSONNEL

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**Ir. Tee Chai Seng**, Technical Director, graduated with honors degree in Civil Engineering (B.Sc High Honors) from the University of Texas. His is a Registered Professional Engineer in Malaysia and a Chartered Professional Engineer, Australia.

With more than 28 years of professional working experience encompassing civil and structural engineering consultancy, project management, property development and construction fields. His overseas assignments include property development projects in Islamabad, Pakistan and Project Proposals in Port Moresby, Papua New Guinea and Teheran, Iran in addition to his early training in Texas, United States.

He has successfully completed the planning, design and supervision of various projects ranging from major mixed developments, low-rise to high-rise commercial and residential buildings, highway and bridges, water treatment and wastewater treatment plants, marina and coastal protection, institutional and industrial buildings.

He possesses strong managerial and analytical capability in *Value Engineering* including reviewing design by other engineering consultants and contractor's alternative proposals with additional in-depth knowledge in property and construction practices.

### **Special Interests:**

His interest includes High-rise Buildings, Mixed Development and Major Infrastructure's engineering design particularly in Geotechnical, Bridge and Water Resources Engineering fields.

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**Ir. Tee Chai Seng**  
B.Eng (Hons) Civil Eng.  
MIEM, P.Eng(M),(Aus)



This Statement of Capability describes information of **Perunding Aziz, Azali & Tee Sdn Bhd** (PAAT) Awards & Registration with Professional Bodies. PAAT is licensed to practice as a professional Consultant in the field of Civil & Structural Engineering.

## 6.0 COMPANY REGISTRATION AND REGULATORY BODIES

(Borang F)

**AKTA PENDAFTARAN JURUTERA 1967**  
**PERATURAN-PERATURAN PENDAFTARAN JURUTERA 1990**  
(PERATURAN 35)

No. Perakuan: **1399-1000-BC-539**

**LEMBAGA JURUTERA MALAYSIA**

**PERAKUAN PENDAFTARAN SEBAGAI AMALAN JURUTERA PERUNDING**

INI ADALAH UNTUK MEMPERAKUI BAHAWA

Nama: **Pertubuhan Perbadanan  
PERUNDING AZIZ, AZALI & TEE SDN BHD**

Alamat: **9 JALAN KENARI 2  
BANDAR PUCHONG JAYA  
47100 PUCHONG SELANGOR**

Cawangan Kejuruteraan: **\*\* CIVIL \*\***

yang telah mematuhi kehendak-kehendak Akta Pendaftaran Jurutera 1967 dan telah membayar fee pendaftaran didaftarkan sebagai suatu AMALAN JURUTERA PERUNDING dalam cawangan kejuruteraan yang dinyatakan di atas tertakluk kepada syarat-syarat yang dinyatakan di bawah.

Syarat-syarat:

Hanya Ir. Shaari bin Hashim aktif di Perunding Aziz, Azali & Tee Sdn Bhd manakala Ir. Tee Chai Seng mengisytiharkan untuk aktif di Jurutera Perunding Primareka Sdn Bhd.

Perakuan pendaftaran ini akan habis tempoh pada **31 DISEMBER 2013**



  
(DATUK SERI Ir. MOHD NOOR BIN YAACOB)  
Yang Dipertua

  
(Ir. HIZAMUL-DIN BIN AB. RAHMAN)  
Pendaftar

Tarikh dikeluarkan: **23 OCTOBER 2012**

\*\* No. Resit 197579 \*\* PBB 158218 \*\* RM1,000.00 \*\* Tarikh bayaran: 23-10-2012 \*\*  
( RM1,000.00(Fee Pembaharuan) )  
Pengesahan pendaftaran hendaklah disemak di laman web [www.bem.org.my](http://www.bem.org.my)

This Statement of Capability describes information of **Perunding Aziz, Azali & Tee Sdn Bhd** (PAAT) Awards & Registration with Professional Bodies. PAAT is licensed to practice as a professional Consultant in the field of Civil & Structural Engineering.

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**6.0 COMPANY  
REGISTRATION AND  
REGULATORY BODIES**

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**KEMENTERIAN KEWANGAN MALAYSIA**  
**SIJIL AKUAN PENDAFTARAN FIRMA PERUNDING**

NO SIJIL : J19712361651070962  
NO RUJUKAN PENDAFTARAN : 465-00001595  
TEMPOH SAH LAKU : 14/09/2012 - 13/09/2015

Bahawa dengan ini diperalui Firma Perunding :

PERUNDING AZIZ, AZALI & TEE SDN. BHD. (447153M)  
NO. 9, JALAN KENARI 2  
BANDAR PUCHONG JAYA  
PETALING  
47100 PUCHONG  
SELANGOR, MALAYSIA

Telah berdaftar dengan Kementerian Kewangan Malaysia dalam bidang perkhidmatan perunding di bawah bidang dan sub-bidang seperti di Lampiran A1. Kelulusan ini adalah tertakluk kepada syarat-syarat seperti yang dinyatakan di Lampiran B1. Individu yang diberi kuasa oleh firma perunding bagi urusan perolehan Kerajaan adalah seperti berikut :

SHAARI BIN HASHIM

#50120086369

MANAGING DIRECTOR

t.t

**DATO' FAUZIAH YAACOB**

Bahagian Perolehan Kerajaan  
I/p Ketua Setiausaha Perbendaharaan  
Kementerian Kewangan Malaysia

Tarikh Berdaftar Dengan Kementerian Kewangan Malaysia : 14/09/2012

(Sijil ini adalah cetakan komputer dan tidak memerlukan tandatangan)

This Statement of Capability describes information of **Perunding Aziz, Azali & Tee Sdn Bhd** (PAAT) Awards & Registration with Professional Bodies. PAAT is licensed to practice as a professional Consultant in the field of Civil & Structural Engineering.

## 6.0 COMPANY REGISTRATION AND REGULATORY BODIES



### CERTIFICATE







SIRIM QAS International hereby certifies that

**PERUNDING AZIZ, AZALI AND TEE SDN. BHD.**  
 NO. 9, JALAN KENARI 2  
 BANDAR PUCHONG JAYA  
 47100 PUCHONG  
 SELANGOR DARUL EHSAN  
 MALAYSIA

has implemented a Quality Management System complying with

**ISO 9001 : 2008**  
 QUALITY MANAGEMENT SYSTEMS - Requirements

Scope of Certification:

**PROVISION OF CIVIL AND STRUCTURAL CONSULTANCY SERVICES  
 (INCLUDING SITE SUPERVISION)**

Issue date : 25 July 2013

Validity period : 25 July 2013 - 19 July 2019

Certification No. : AR 4380



**Khalidah Mustafa**  
 Managing Director  
 SIRIM QAS International Sdn. Bhd.

**SIRIM QAS International Sdn. Bhd.**  
 1, Persiaran JALAN Melayu  
 Seksyen 17, D. O. No. 9333  
 40111 Shah Alam  
 Selangor Darul Ehsan  
 40111 Shah Alam

Tel: 60-3-2344 8404  
 Fax: 60-3-2344 8787

<http://www.sirim-qas.com.my>  
<http://www.malaysiaqaat.com.my>

This certificate is granted subject to the terms and conditions as stated in the Certification Agreement.



### CERTIFICATE

IQNet and SIRIM QAS International hereby certify that

**PERUNDING AZIZ, AZALI AND TEE SDN. BHD.**  
 NO. 9, JALAN KENARI 2  
 BANDAR PUCHONG JAYA  
 47100 PUCHONG  
 SELANGOR DARUL EHSAN  
 MALAYSIA

has implemented and maintains a

**QUALITY MANAGEMENT SYSTEM**

which fulfils the requirements of the following standard

**ISO 9001 : 2008**

for the following activities

**PROVISION OF CIVIL AND STRUCTURAL CONSULTANCY SERVICES  
 (INCLUDING SITE SUPERVISION)**

Issued on : 25 July 2013

Validity date : 19 July 2016

Certification Number : MY-AR 4380



**Michael Drechsel**  
 President of IQNet



**Khalidah Mustafa**  
 Managing Director  
 SIRIM QAS International Sdn Bhd

**IQNet Partners**

AEI/DE Spain AFNOR Certification France AIB Vapoita International Belgium ANCI Mexico APCOB Portugal CCC Cyprus  
 CSBQ Arab CQC China CQM China CQS Czech Republic Cio Can Canada DQS Holding GmbH Germany DS Denmark  
 ECAS Brazil FONDORWMA Indonesia KONTIC Colombia SBC Mexico INGENIERIA Bolivia  
 Inqora Certification France IRAM Argentina IQA Spain KPO Korea MIST Hungary Nixta AS Norway NSAI Ireland  
 PCBC Poland Quality Austria Austria RR Korea SO Israel SOI Slovenia SIRIM QAS International Malaysia SGS Switzerland SRAC Romania  
 TEST M Penang Korea TSE Turkey YUQS Serbia

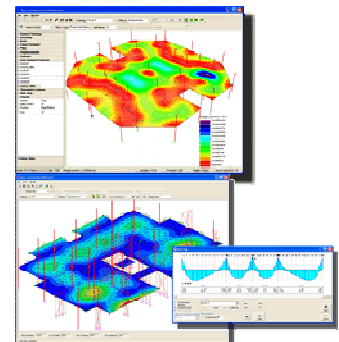
IQNet is represented in the USA by: APNOR Certification, CIBQ, DQS Holding GmbH and NSAI Inc.

\* The use of IQNet partners is valid at the time of issue of this certificate. Updated information is available under [www.iqnet-certification.com](http://www.iqnet-certification.com)

This Statement of Capability describes **Perunding Aziz, Azali & Tee Sdn Bhd (PAAT)** design office facilities, including Office Equipment, Computer Hardware and Design Software. We invested generously and continuously maintaining all our design office hardware and software

## 7.0 DESIGN OFFICE FACILITIES: COMPUTER HARDWARE & DESIGN SOFTWARE

Description of Hardware / Software & Version	Nos.
Desktop	65
Laptop	3
HP Designjet T1100 44"	1
HP Designjet T770 44"	1
HP Designjet 800	2
HP Designjet T1100mfp Scanner	1
HP Scanjet 2400 & 3970	2
Ricoh Aficio 3030 Photocopier (3-in-1)	2
Ricoh Aficio 2027 Photocopier (3-in-1)	1
HP Colour Laserjet C1515N	3
HP Laserjet Printer (A4 & A3)	10
Hitachi CPX 2520 Projector	1
Canon ES 300 Camera	1
Autocad (Include Autocad LT & Autocad Full Version)	31
<u>Computer Operating System:</u> Microsoft Window XP Professional	44
Microsoft Window 7	3
Microsoft Window Vista (Infra Software)	1
Microsoft Window 98 (Miduss)	1
<u>Microsoft Office:</u> Microsoft Office 2003 Basic	15
Microsoft Office 2003 SBE	5
Microsoft Office 2000 SBE	6
Microsoft Office 2000 Premium	1
Microsoft Office 2007 Basic	4
Microsoft Office Home & Business 2010	20
<u>Design Engineering Software:</u> <u>A) Infrastructure:</u> Bentley Power Civil V8i	1
Bentley Power InRoads V8i	1
Miduss	1
Miduss Version 2	1
Bentley WaterCad	1
Geo Slope 2004	1
MOSS	1
DNAAD - Drainage	1
MX Road	1
<u>B) Structural:</u> Staadpro	1
Etabs Nonlinear v9.5	1
Esteem Plus	1
Ram Concept 2.1	1



Typical Finite Element Flat Slab Analysis Output using ORION





This section of Capability Statement describes **Perunding Aziz, Azali & Tee Sdn Bhd's** (PAAT) Quality Management System. It contains information extracted from the firm's Quality Manual particularly on Design Management and Quality Control Procedures which has been certified to the International Standard's ISO 9001:2000.

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## 8.0 QUALITY MANAGEMENT SYSTEM

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### **Vision Statement:**

We are committed to providing the highest quality service to its clients under this Vision Statement: -

***'Clients Keep Capable Consultants, Let It Be Us...'***

### **Mission Statement:**

To demonstrate this commitment, we operate a Management Quality System, which is based on the ISO 9001: Revision 2000.

Our mission to achieve the above vision is based on three key elements:

1. Optimum Design
2. Timely Delivery of Services
3. Quality Product and Services

The approach of the company is to combine technical expertise with acceptance of responsibility and prompt services without sacrificing quality by inculcating a quality culture combined with technical know-how and delivering engineering services that satisfies Client's needs and requirements.

**PAAT** is thus committed to provide quality services to its clients by undertaking the following:

- ❖ Meeting our clients' needs and requirements as mutually agreed.
- ❖ Developing, implementing, maintaining and continually improving the quality management system in accordance to ISO 9001:2000 standard.
- ❖ Continually improving our professional services at all times.
- ❖ Managing projects effectively and efficiently.

### **Management Commitment**

The Management Review Board (MRB) is established to review the on-going implementation of the company's quality management system to ensure its continuing suitability, adequacy and effectiveness in achieving quality.

The MRB shall assess the following during the meeting:

- i) results of internal and external quality audits
- ii) clients' feedback (complaints and satisfaction)
- iii) performance of business processes
- iv) conformity to project requirements
- v) status of corrective and preventive actions
- vi) resource needs
- vii) follow-up on actions from previous MRB meeting
- viii) changes that could affect the QMS (including quality policy & quality objectives)
- ix) recommendations for improvement
- x) other relevant information

This Statement of Capability describes **Perunding Aziz, Azali & Tee Sdn Bhd** (PAAT) establishment as a Structural Engineering Consulting firm. It contains information on the firm's setup, the professional team, design management and resources.

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**9.0 REGISTERED  
ADDRESS AND  
BRANCHES**

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## CONTACT US

### HEAD OFFICE:

**PERUNDING AZIZ, AZALI & TEE SDN BHD**  
**9, Jalan Kenari 2,**  
**Bandar Puchong Jaya,**  
**47100 Puchong,**  
**Selangor Darul Ehsan.**

**Tel**            **+603 5882 7385 / 7485**  
**Fax**            **+603 5882 4674**  
**E-mail**        **[paat@paatsb.com.my](mailto:paat@paatsb.com.my)**  
**Website**      **[www.paatsb.com.my](http://www.paatsb.com.my)**