

Company Profile



Professional Services for the Construction Industry

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Prepared By



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Contents

- **Introduction**

- **Services**

- 1) Project Management
- 2) Quantity Surveying and Cost Management
- 3) Design and Construction Management
- 4) Commercial and Contract Management
- 5) Technical Services, Building Audits
- 6) Construction Material Testing and Survey Services

- **Key Personnel**

- **Associates**

- **Appendix**

Past Experience & Project Management Services

Register of Company

Scope of Service

Boulter Stewart Limited provides a comprehensive range of design and construction consultancy services, project management, quantity surveying, cost management and technical services to assist a broad range of clients with new-build, refurbishment, maintenance and infrastructure projects across the spectrum of the construction industry, offered throughout Thailand and South East Asia, to suit all local conditions and development requirements.

Our core philosophy is simply to ensure that the projects we deliver are an unqualified success: by the provision of reliable, timely, accurate and cost effective services that exceed expectations and make lasting improvements to our clients' businesses.

We are able to respond promptly to our clients' needs with qualified and experienced individual attention from our head office in Bangkok's central business district and branch office on the Eastern Seaboard in Rayong Province, where our testing services are based.

Boulter Stewart Limited prides itself on providing commercial business solutions that focus on consistently maintaining a high quality of service, where each project receives the continuous involvement from senior management that it deserves and long term relationships can be built, by ensuring that we:

- Maintain flexibility and a personal approach;
- Adapt our expertise to recognise and meet individual requirements;
- Resolve all issues efficiently and quickly;
- Effectively organise clear chains of communication.

Boulter Stewart Limited's services concentrate upon the effective management of a project, with particular attention given to matters relating to balancing cost and value to the building owner or user. We aim to:

- Deliver quality projects on time to meet cost targets;
- Ensure that designs are optimised to maximise value for money;
- Actively handle project commercial risks.

Our directors, staff and associate consultants share important attributes: relevant qualifications, a broad range of skills, commitment and considerable experience of working in Thailand and South East Asia.

The principal of our business, Robert Boulter, is both a chartered civil and structural engineer who has lived and dedicated his working career within Thailand for over 25 years. Robert specialises in the design and construction management of commercial and residential buildings and industrial facilities, having been Vice President for eight years with one of Thailand's largest international contractors.

Our team also includes local and expatriate staff with qualifications in civil and structural engineering, project and construction management, quantity surveying, law and business administration: all similarly dedicated to this region, its culture and economic growth as a whole.

We can also draw upon the expertise of a number of professional associates, capable of providing additional specialist resources in support of our projects at short notice.

Introduction

(Continued)

Boulter Stewart Limited is in an ideal position to offer a combination of local and international knowledge that is ideally suited to the region.

This Company Profile includes short descriptions of the services we offer and brief details of our senior Bangkok based staff and associate consultants.

We thank you for this opportunity to present our capabilities to you and assure you of a prompt response to your enquiries.

Services

1. Project Management

- Pre-Design Phase
- Design Phase
- Construction Phase
- Post Construction Phase
- Special Services

2. Quantity Surveying and Cost Management

- Pre-Construction Cost Consultancy
- Contract Documentation
- Construction Phase Cost Management, Recording and Planning
- Services for Contractors

3. Commercial / Contract Management

- Contract Review
- Project Monitoring
- Contract Changes
- Dispute Resolution
- Claims Defence
- Conciliation / Adjudication
- Mediation and Arbitration

4. Design and Construction Management

- Site Selection and Feasibility Studies
- Engineering Design and Total Design Management
- General Building and Engineering Construction
- Construction Management Services

Services

(Continued)

5. Technical Services

- Technical Audits and Due Diligence Reports for:
- Financial Institutions
- Insurance Industry
- Legal Profession

6. Construction Material Testing and Survey Services

- Geotechnical Surveys
- Soil testing
- Concrete and Reinforcement Testing
- Steel Testing
- Castable refractory test
- Surveying and Mapping Services
- Ca Property Acquisition
- Audits of Partially Completed Buildings

Project Management

Over the last 10 years, Boulter Stewart Limited has offered Project Management services across many types of building contracts, which aid our clients to achieve success by the provision of a range of services to benefit the overall planning, control, co-ordination, cost monitoring and design and construction processes for projects of differing sizes and complexity.

We are experienced in providing Project Management services to a variety of clients, whether they are knowledgeable property/construction professionals or laymen developing a “one-off” project.

Our expertise allows us to work closely to co-ordinate and manage the design and project team from inception to completion, or to provide a comprehensive “one-stop service” and combine various specialist construction consultancy disciplines: such as design services and design management, quantity surveying, cost management and contract administration. Of course, our services are always flexible and can be adapted to suit individual client requirements.

We work closely with our clients in developing clear objectives to ensure a successful project delivery strategy, identifying and managing the key elements of Risk, Time, Quality and Cost, by having:

- Qualified and experienced project managers;
- Single point responsibility;
- Clearly defined reporting methods;
- Effective communications and client liaison

For a more detailed list of Project Management Services, please refer to the Appendix.

From Inception through Design Development and Construction, to Completion and Final Settlement, Boulter Stewart Limited has a considerable depth of experience in providing a comprehensive range of integrated pre and post contract quantity surveying and cost management services, carefully tailored and applied to suit the needs of each client.

Our role is to control and review costs, using a whole project approach with management of total budget at all development stages, and save our clients' money far in excess of our professional fees.

More than 80 per cent of project costs are determined during the initial concept design stage and it is at this time where we can influence cost the greatest. We utilise skilful estimating and cost planning techniques, through working with the design team, to examine the options and produce the most effective solutions, both in terms of construction cost and optimised design.

Quantity Surveying and Cost Management

Value engineering procedures to examine planned schemes, also aim to produce savings and increase cost efficiency, without compromising the design intent, thereby achieving “fit for purpose” status without unnecessary waste of funds.

Boulter Stewart Limited is familiar with and uses a variety of contract forms applicable to different procurement methods including: competitive tendering, design and build, negotiation, partnering and alliances. We operate in tandem with our clients and designers to establish the optimal method of procurement and suitable contract arrangements.

The early establishment of reporting procedures, roles and responsibilities, scope of work and understanding the chosen method of procurement enable us to:

- Act to ensure effective decision making in the construction process
- Review and evaluate competing costs in proportion to their significance
- Focus on market conditions and looking forward at future cost movements
- Ensure total cost transparency
- Enable budgets to be followed or adjusted to accommodate change/variation orders
- Actively manage cost reporting to avoid hidden costs or surprises at completion

by way of providing full construction cost consultancy services, including:

2.1 Pre-Construction Cost Consultancy

- Feasibility studies, preliminary cost advice and budget estimates
- Cash flow forecasting
- Risk management
- Value engineering
- Cost planning of design alternatives and continuing cost advice
- Life cycle costing

Quantity Surveying and Cost Management

(Continued)

2.2 Contract Documentation

- Advice on tendering procedures
- Agreement of contractual strategies and arrangements
- Preparation of tender documents, including bills of quantities and specifications
- Provision of pre-tender estimates
- Pre-qualification and selection of local / international contractors and obtaining tenders
- Tender reporting, analysis, evaluation and negotiation
- Preparation of contract documents, including forms of contract and contract conditions

2.3 Construction Phase Cost Management, Recording and Planning

- Valuation and certification of work in progress
- Measurement, assessment and negotiation of contract variations
- On-going cost management, cost reporting and forecasts of final costs
- Negotiation and settlement of final accounts

2.4 Services for Contractors

We are also experienced in providing services specifically required by Contractors, including:

- Estimating
- Tender advice and documentation
- Investigation of local costs
- Scheduling and resourcing labour, plant and materials
- Preparation of bills of quantities
- Contract documentation
- Construction auditing
- Administration of subcontractors
- Post contract cost management
- Re-measurement of quantities
- Final account preparation

Commercial and Contract Management

Experience and knowledge gained on many types of contracts used in the construction industry, means that Boulter Stewart Limited's professional team is able to advise and guide clients through the processes affecting their contractual relationships, to ensure they are established and administered effectively.

3.1 Contract Document Preparation and Review

Full vetting of tender or contract documentation to highlight onerous conditions / specifications and recommend protective procedures. This service may be carried out during tender or after the award of a contract. Reports can be prepared in Thai or English.

3.2 Project Monitoring

Periodic visits throughout the construction phase to give early advice on problems encountered including remedial action and / or the maintenance of contractual notices and appropriate records.

A senior member of our staff will visit site and maintain regular contact with the contractor's project manager by telephone and facsimile. Incoming contractual correspondence, construction records and site-meeting minutes will be reviewed and our staff will prepare draft responses for the contractor's consideration. The service may also be extended to cover attendance at site progress meetings.

This service can help to prevent the most common problem, which faces contractors – the failure to respond to correspondence or notify additional costs or delays in the time frames required by the construction contract. Our service can also assist the contractor's project manager by allowing him to focus on the construction activities.

3.3 Contract Changes

Full range of services from outline advice as to strategy through to full documentation preparation and assistance with negotiation. The service covers all aspects of requests for additional costs and extensions of time from notification through detailed submission and negotiation.

Our team will commence by discussing the problem with the contractor's management. All relevant data will be reviewed and an initial presentation will be given to the contractor. Usually two to three weeks of review will be necessary. However, if we have been carrying out contractual monitoring the review stage can be shortened. During the initial presentation we will discuss the contractual status of the request for "time or costs", suggest an approach and provide a recommended document format. At this stage it will normally be possible to agree a document preparation schedule.

The second stage of the service concerns the preparation of the "claim" document. Factual data and the relevant contract provisions will be presented. The basis for the application will be clearly identified and all costs supported in an easily understood format. During the preparation of the claim document we will report at agreed regular intervals. This is usually done by visits to the contractor's offices.

When we have completed the document we will provide the contractor with copies for review. When all of the comments have been incorporated we will produce the requisite number of bound copies. If required, we are also available to assist in negotiating the matter with the client or his project manager.

Commercial and Contract Management

(Continued)

3.4 Dispute Resolution

Assistance at every stage including second opinion on contractual basis of entitlement, technical and commercial support to legal advisors, and the provision of expert witnesses.

3.5 Claims Defence

Contractual, technical and commercial analysis of claims to be resisted either informally or in arbitration or litigation.

3.6 Conciliation / Adjudication

Provision of a Member of the Institution of Civil Engineers Conciliation Panel to assist the parties to a contract to resolve a difference amicably.

3.7 Mediation and Arbitration

Provision of qualified engineering and quantity surveying mediators and arbitrators.

Design and Construction Management

We offer a comprehensive multi-discipline service, whereby Boulter Stewart Limited acts as client representative, project manager or quantity surveyor. In such a role, we are able to provide project management, design, quantity surveying / cost management and supervisory services from project inception through to completion.

Our construction management service allows us to organise building on a management basis, including obtaining and bids / tenders for separate work packages, monitoring payments and supervising project works.

Boulter Stewart Limited's flexible approach means that services offered can be adapted, as required, to suit the needs and capabilities of the particular client.

4.1 Site Selection and Feasibility Studies

We are able to assist in the selection of suitable sites in both the Bangkok area and the provinces, and have a working knowledge of the major Board of Investment promoted industrial estates. Our local knowledge enables us to provide important input on essential local issues which may affect overall project feasibility.

4.2 Engineering Design and Total Design Management

We are able to appoint specialist designers, draft design agreements, review their work and manage multi-disciplinary design teams. We also undertake civil and structural design services in house.

4.3 General Building and Civil Engineering Construction

We undertake building and civil engineering construction management contracts for a variety of works both individually and in Joint Venture with other building and engineering contractors

4.4 Construction Management Services

Our team can assist clients in the selection process for general and specialist contractors. We believe in the necessity of transparent bidding processes aimed at securing the best possible deal for our clients while ensuring that a suitably qualified contractor is appointed. Depending upon the form of contract adopted and our Client's needs our staff are also available to assist in managing the site work.

4.5 Contract Administration and Cost Control

If required we can administer contracts for the design and / or the construction. This activity includes the measurement of work done, completion inspections, issue of contract notices and the valuation of change orders.

5.1 Technical Audits and Due Diligence Reports for Financial Institutions, Insurance Industry and Legal Profession

Technical reports on design or construction matters are provided for bankers, insurers, and the legal profession. Work for bankers includes the review of construction methods and schedules before funding decisions. Our service to financial institutions also includes technical assessment before acquisition of assets and independent project monitoring during the execution phase of the project.

In the insurance field, we act as advisors to insurance brokers. For very large and technically difficult projects, we are able to offer a sophisticated risk analysis involving a simulation of the project development by computer model. During construction we also advise insurance loss adjusters on technical issues and investigate the causes of failures.

Our services to the legal profession include expert opinions and assistance in litigation.

5.2 Building Appraisal

Boulter Stewart Ltd undertakes technical appraisals of existing buildings with particular emphasis placed on the condition and serviceability of the key:

- Civil and structural elements,
- Architectural fabric, and
- Mechanical and electrical building services.

We evaluate and prepare budget estimates for:

- Required replacement and repair work, and
- On-going maintenance programmes.

We can also provide follow up management and supervision services for:

- Procurement and installation of required replacement and repair work
- Monitoring on-going maintenance programmes.

5.3 Property Acquisition

Boulter Stewart Ltd is able to provide comprehensive services to property investors, financial institutions, and building owners during property acquisitions. These services include:

- Establishing compliance with local building regulation requirements,
- Identifying local engineering, architectural and environmental concerns,
- Identifying building deficiencies and itemising required capital improvements and the needs of existing tenants,
- Assessing on-going maintenance and running costs and advising on any required capital improvements,
- Investigating possible constraints to changes in building use.

5.4 Audits of Partially Completed Buildings

Boulter Stewart Ltd are also able to provide the following services that are specifically related to partially completed developments:

- The evaluation of the causes and liabilities of construction defects, occurring either during construction or during the defects liability period, and the preparation of estimated costs of remedial works,
- The investigation and evaluation of the extent of deterioration of unfinished and unprotected buildings; assessments of any associated safety hazards; preparation of repair and protection schedules to prevent on-going deterioration,
- Preparation of budget cost estimates for construction to completion,
- Project management and supervision of repair and remedial works, building protection works, and construction to completion.

Construction Material Testing and Survey Services

Boulter Stewart Ltd offer a fully independent testing and inspection service to all users of construction industry materials, managed from our Rayong Office. Testing is undertaken to recognized international standards and the results compared with applicable specifications, as follows:

6.1 Soil Testing

Field Work

- Bore hole and test pit geotechnical investigations
- Standard Penetration tests
- Sand Cone soil density tests.
- Plate Bearing load tests.
- Provision of on-site resident inspection and audits.
- Operation of site testing laboratories .
- Field CBR tests

Laboratory Tests

- No. 200 (75µm.) sieve tests.
- Sieve analyses of soil-aggregates.
- Classification of soils for engineering purposes.
- Moisture content of soils tests.
- Liquid Limit, Plastic Limit and Plasticity Index of soil tests.
- Moisture-density relations of soils and soil-aggregate mixtures using Standard and Modified Proctor tests.
- Minimum index density of soils for calculation of relative density.
- CBR (California Bearing Ratio) tests of Laboratory-compacted soils.
- Permeability of soils tests.
- Unconfined compressive strength tests

6.2 Concrete & Reinforcement Testing.

Field work

- Concrete core drilling and testing.
- Rebound hammer testing of hardened concrete.
- Concrete slump tests.
- On-site resident inspection and testing.
- Laboratory testing of concrete and concrete aggregates for use in construction.

Construction Material Testing and Survey Services

(Continued)

Laboratory Tests

- Compressive strength tests.
- Splitting tensile strength of cylindrical concrete specimens.
- Making and curing concrete test specimens in laboratory.
- Amount of material within the soil finer the No. 200 (75µm.) sieves.
- Sieve analyses of coarse & fine aggregates.
- Los Angeles Abrasion tests.
- Soundness of aggregate tested by sodium sulfate or magnesium sulfate.
- Specific gravity & Absorption test

For Steel Reinforcement

- Tensile strength tests.
- Pull-out tests

6.3 Pile Tests

- Seismic Integrity tests
- Dynamic load tests
- Static Load tests

6.4 Survey work

- Construction surveying services
- Topographic mapping
- Route Surveys

6.5 Castable Refractory Testing

- Cold crushing strength at 110 °C and 850 °C
- Bulk Density test
- Permanent Linear change at 850 °C

Key Personnel

Robert Boulter (Thai name: Bordee Visavalertsil) (British / Thai since 1988)

B.Sc. (Hons. first class) Civil Engineering, City University London
Chartered Civil and Structural Engineer
Fellow Institution of Civil Engineers, London
Fellow Institution of Structural Engineers, London
Associate Chartered Institute of Arbitrators

Robert Boulter graduated with first class honours in civil engineering in 1965. He gained experience in the United Kingdom and Canada before accepting an appointment in Thailand in 1972 to manage the local office of an international Architectural and Engineering practice based in the UK. He has lived and worked in Thailand since then, and became a Thai citizen in 1988.

Robert's experience in Thailand has included senior appointments for both Thai and International Consultants, a Director level appointment with a major Australian/Thai Project Management company, and as Division Manager/Vice President for specialist Design and Construction Divisions in two locally based international construction companies.

Robert specializes in the management of the design and construction of commercial, residential and industrial projects. In recent years he has been responsible for the development of some of Thailand's largest retail sites and distribution centres, as well as luxury hotels, office towers, condominiums and residential units, educational establishments and light and heavy industrial projects.

His proficiency in the Thai language enables design and construction meetings or contract negotiations to be accurately translated ensuring that our Client's intentions are clearly understood.

Robert Boulter is a past Chairman of The Society of Professional Engineers, Thailand.

Timothy Newth (British / Australian since 1996)

B.Sc. (Hons.) Quantity Surveying, Nottingham Trent University (formerly Trent Polytechnic)

Tim Newth graduated with honours in Quantity Surveying in 1983, following which he gained experience as a professional quantity surveyor in a well established UK private practice. In 1989, he accepted an offer to move to Australia to work within a Sydney based private practice, becoming an Australian citizen in 1996 and being appointed a director of the same company in 1997; a position which he held for five years.

In recent years, Tim has gained construction cost management experience in South East Asia, initially being appointed QS Manager for a Bangkok based private practice for a period of two years: mainly undertaking luxury hotel and resort projects, condominiums, offices and retail shopping centres. Prior to joining Boulter Stewart this year as our QS Manager, Tim undertook a cost management consulting role for one year on behalf of a major Japanese corporation operating in Hanoi, Vietnam.

Key Personnel (Contd.)

Kunavoot Petchnual (Thai)

B.Sc. (Construction Engineering)
Member Engineering Institute of Thailand
Licensed Civil Engineer

Khun Kunavoot has 20 years experience in the Thai construction industry. He started his career as a soils engineer responsible for materials quality control with leading Swiss based international materials testing consultant, Societe Generale et Surveillance (SGS), and has since held positions on site as both Resident Engineer and QA/QC Engineer. He is Boulter Stewart Ltd's Chief Materials Testing Engineer, and is manager of the Company's materials testing office based in Rayong.

Chaichumpol Chantarami (Thai)

B.Sc. (Industrial Technology in Construction Engineering)
Member Engineering Institute of Thailand
Licensed Civil Engineer

Khun Chaichumpol has 20 years experience in the Thai construction industry. He started his career as a site engineer with leading Swiss based international materials testing consultant, Societe Generale et Surveillance (SGS), and has since held positions on as both Resident Site Engineer and Senior Estimator. He is Boulter Stewart Ltd's Senior Engineer, based in our Bangkok office.

Associates

David Stewart (British).

B.Sc. Applied Science
B.Sc.(hons) Civil Engineering and Economics, University of Dundee, Scotland
Chartered Civil Engineer
Fellow Institution of Civil Engineers, London
Fellow American Society of Civil Engineers, New York
Fellow Hong Kong Institution of Engineers
Member Engineering Institute of Thailand
Fellow Geological Society of London
Associate Chartered Institute of Arbitrators London

Following postgraduate degree studies in economics and accountancy David Stewart gained civil engineering design and site experience with the British contractors Shanks & McEwan, Mitchell Bros., Tarmac and John Mowlem. In 1979, he moved to the Far East to join the team supervising construction of Hong Kong's Mass Transit Railway projects. An appointment followed in 1984 as senior resident engineer, responsible for three city centre "design and construct" underground projects on the Singapore Mass Rapid Transit Railway. In 1987, after the Singapore projects had been completed, David established a project management firm in Bangkok. After four years of steady growth, the firm entered a joint venture with a leading European multinational company. David continued as managing director of the JV firm. In recent years, David has also undertaken consulting appointments in U.K., Denmark, Malaysia, Vietnam, Taiwan and Singapore. He established our sister company Stewart Engineers, in April 1997. David's professional interests include contract management and dispute resolution.

Arthur Hawtin (British / Thai PR).

RICS Final Examination (ARICS)
Chartered Quantity Surveyor
Fellow Royal Institution of Chartered Surveyors (RICS), London
Associate Chartered Institute of Arbitrators

Arthur Hawtin has had more than fifty years experience as a professional quantity surveyor, initially for a period of fifteen years in the United Kingdom. In 1972 he accepted a senior appointment in Thailand, being responsible for managing all technical aspects of a Bangkok based private practice, a position which he held for nine years. During this time, Arthur also undertook temporary assignments in Malaysia and Singapore. An appointment followed in 1982 as resident director in the Tokyo office of a "top twenty" UK Quantity Surveying practice, where he was responsible for the start-up, development and organization of the group's Japanese activities and for liaison with clients worldwide. Arthur has lived and worked in Japan since then, continuing as a director of the same company until 2007: responsible for group strategy and policy throughout East and South East Asia, as well as providing facility management consulting services to a variety of blue-chip Japanese and foreign clients. He now undertakes independent consulting appointments, both as a senior advisor in Japan, and for Boulter Stewart Limited in Thailand.

Associates (Contd.)

Dr. Stephen Buttlng (British / Thai PR).

B.Sc. (Eng) Imperial College, University of London
Ph.D. University of Bristol
Chartered Professional Engineer (Australia)
Registered Professional Engineer – Civil (Australia)
Chartered Engineer (UK)

Dr. Stephen Buttlng has spent twenty four years living and working in South East Asia, initially Hong Kong and then Singapore, before becoming a resident in Bangkok for sixteen years up until 2006. For all his working career, Stephen has been involved in geotechnical engineering and has extensive experience in site investigation and soil testing, ground improvement and ground treatment, driven and cast-in-place piling, deep basement excavations, diaphragm walling, soil and rock anchoring, foundations, soil and rock slope cutting and remedial works, formations for building works, road pavements and permanent ways and tunneling. In recent years he has undertaken appointments in Australia, being involved with a number of major projects encompassing soft ground, deep foundations, underground structures and reinforced fill and also undertakes independent consulting appointments for Boulter Stewart Limited in Thailand. Dr. Stephen Buttlng is a past chairman of The Society of Professional Engineers in Thailand, and has given lectures at Chulalongkorn University and the Asian Institute of Technology in Thailand.

Dr. Piangjai Wisuthseriwong (Thai)

B.Eng. (Hons) Civil & Environmental Engineering
UCL, London Ph.D. Structural Engineering, UCL, London
Member International Association of Shell and Spatial Structures
Graduate Member Institution of Civil Engineers, London
Graduate Member Institution of Structural Engineers, London
Associate of the Chartered Institute of Arbitrators

After returning to Thailand from the United Kingdom, Piangjai joined BSL/SEL to help develop the Firms' civil and structural design capability. She has been involved with the Firm's work in both Thailand and Singapore, responsible for managing all design related services: including feasibility, concept / detailed design, and design review. Piangjai has also looking after luxury residential projects for our Clients in both Singapore and Thailand. In recent years she has undertaken consulting appointments for the company.

Appendix

Past Experience & Project Management Service

Past Experience

Project Management, QS and Commercial Services, Design and Construction Management

Project	Services Provided
Resort and Residential:	
Center Point Serviced Apartments, Bangkok	Design and Construction Management
Oriental/Mandarin Hotel, Koh Samui	Design and Construction Management
Poppies Resort, Koh Samui	Engineering Design Services
Tradewinds Resort, Koh Samui	Engineering Design Services
Flying Fish Estate, Koh Samui	Engineering Design Services
Peninsula Hotel, Riverfront, Bangkok	Project Management and Commercial Services
Bangtao Beach Garden Apartmentss, Phuket	QS and Commercial Services
Jom Chang Luxury Villa Phuket	QS and Commercial Services
Casuarina Shores Apartments, Phuket	QS and Commercial Services
Cool Blue Villas, Koh Sam,ui	QS and Commercial Services
Himmaphan Resort, Koh Samui	QS and Commercial Services
Sava Luxury Villas, Phuket	QS and Commercial Services
RR Luxury Villas, Koh Samui	QS and Commercial Services
Ocean Palms	Design Audit, QS and Commercial Services
Kata Rocks	QS and Commercial Services
Bo Phut Villas	QS and Commercial Services
Commercial:	
CP Orange Switch Stations	Quantity Surveyor Services
CP Orange Switch Stations	Structural Engineering Design Services
Sathorn Siam Office Tower	Design and Construction Management
British Club New Clubhouse and Bar	Total Design Management,
British Club New Clubhouse and Bar	Structural Engineering Design

Past Experience

Project Management, QS and Commercial Services, Design and Construction Management

Project

Services Provided

Commercial: (Contd.)

Australian Embassy, Bangkok
US Embassy new Warehouse and Admin. Building
British Embassy Staff Accommodation
Malacca Night Club and Restaurant
HTV Project Television Studios, Hanoi

Fit out Construction Management
Project Management
Design Management
Project Management, QS Services
Contract Claims Management

Industrial:

KLM Workshops and Offices
Chillington Tools
Reynold's Polymers
Stereogenics
Standard Can
Inchcape Distribution Centre
Sandoz Factory and Warehouse
Liebherr Maintenance Centre
Diethelm Warehouse, Bangbo
Thai Copper Oxygen Plant
Alstom Power Plant
Schenker Distribution Centre
Thai Tantalum Wire Drawing Plant, Mab Tha Phut
Volclay Siam, Eastern Seaboard
Beauty Bijoux Jewellery Factory

Design and Construction Management
Design and Construction Management
Design and Construction Management
Design and Construction Management
Design and Construction Management
Design and Construction Management
Design and Construction Management
Design and Construction Management
Project Management
Civil Design, QS Services, Project Management
Civil Engineering Consultant Services
Project Management
Design Management, QS and Commercial Services.
Design and Construction Management
Design and Construction Management

Educational:

Bangkok Pattana School
Thammasat University Sports Centre

Design and Construction Management
Design and Construction Management

Food Processing Facilities:

KLM Flight Kitchen
Siam Food Services Flight Kitchen
Kingfisher Sea Food Factory

Design and Construction Management
Design and Construction Management
Design and Construction Management

Past Experience

Technical Services, Building Audits

Project	Structural and Civil	Architectural	Mechanical	Electrical
Laem Chabang Technical College				■
Independence Condominiums Muang Thong Thani	■			
Muang Thong Thani precast concrete system built Townhouses	■			
Laksi Plaza	■	■	■	■
Omni Serviced Apartments	■	■	■	■
Weiser Factories, Nava Nakorn	■		■	
KR Godown, Korat	■			
Merlin Hotel, Pattaya	■		■	■
C U Hi-Tech Square multi storey offices and apartments, Bangkok	■		■	
The Residences, The Regent Resort Chiang Mai	■	■	■	■
Luxury Housing, Soi Ekamai	■	■		
Luxury Housing, Nichada Thani	■	■		
Garden Place - Condominium, Soi Thonglor	■			
ECCO Shoe Factory, Ayudhya	■			
British Club, Bangkok				■
9 Storey Offices and Workshop, Surawongse Road	■			
Jewelry Factory, Bangkok	■			
National Fertilizer Factory, Map Ta Phut	■			
Luxury Hotel Development, Ratchadamri	■			
Structural Audit for Printing Factory, Rangsit	■	■		
Tsunami damaged Resort Condominium, Phuket	■	■		
Audit of Luxury Hotel Restaurant damaged by Tsunami, Phuket	■	■	■	■
Predemolition Survey for 40 storey Office and Commercial development, Bangkok	■	■		
Technical Audit for Luxury Villa and Spa development, Kamala, Phuket	■	■	■	■
Royal Thai Navy Wharf, Sattahip	■			
Luxury Private Residence, Phuket Town	■	■	■	■
Luxury Apartments, Bang Tao, Phuket	■	■		
Luxury Villa Development, Kamala Beach, Phuket	■	■	■	■

Past Experience

Materials Testing Services

Project	Topo. Survey	Geotech. Surveying	Soils Testing	Pile Testing	Material Testing	Site QC. Audit
NTS Phase II, Bowin, Chonburi Sino-Thai Engineering & Construction Public Co.,Ltd.					■	
Star Refinery Project., Map Ta Phut Star Petroleum Refining Co.,Ltd. Sino-Thai Engineering & Construction Public Co.,Ltd. JGC Corporation CBI/ST Limited International Blaster Chistiani & Neilsen (Thai) Public Company Limited					■	
TRC Refinery Project., Map Ta Phut Italian-Thai Development Public Co.,Ltd. Mariani Battista (Thailand) Co.,Ltd. Ritta Co.,Ltd. Thai Poonglim Co.,Ltd. Sino-Thai Engineering & Construction Co., Ltd.					■	
Thai Lube Beas Oil, Sri Ra Cha Samsung Development (Thailand) Thai Leighton Co.,Ltd			■		■	■
TAC Project, Map Ta Phut Italian-Thai Development Public Co.,Ltd. Sino-Thai Engineering & Construction Public Co.,Ltd. Vattana Phaisal Engineering Co.,Ltd. The Seaboard Group Co.,Ltd. Jin Yong Corporation Co.,Ltd. Beta Clough (Thailand) Co.,Ltd. TPI Concrete Co.,Ltd.					■	■
Empire Towers, Bangkok Bechtel International Inc.					■	■
Green Union Project, Bangkok Siphya Construction Co.,Ltd.					■	■
Star Petroleum Refining Co.,Ltd. Flour Denail Eastern, Inc.					■	
Thai Cabon Product, Sri Ra Cha Bangkok Civil Group Limited					■	
FECL 3 Extraction & CL 2 Bestraction Unit in Viny Thai Sino-Thai Engineering & Construction Public Co.,Ltd.					■	

Past Experience

Materials Testing Services (Contd.)

Project	Topo. Survey	Geotech. Surveying	Soils Testing	Pile Testing	Material Testing	Site QC. Audit
NPC HRSG Project, Map Ta Phut International Blaster Co.,Ltd.					■	
HMC PP Project, Map Ta Phut BES Engineering Co.,Ltd.					■	
BHP Thailand Flat Products Project, Map Ta Phut Thai Leighton Limited. Swot Construction Co.,Ltd.			■			■
Combibloc, Bowin, Sri Ra Cha Swot Construction Co.,Ltd.			■			■
Amata-City Project, Bowin Italian-Thai Development Public Co.,Ltd. SKEC (Thai) Limited.					■	
National Fertilizer Complex Project, Map Ta Phut Hyundai Engineering & Construction Co.,Ltd. SKEC (Thai) Limited			■			■
TPC 300,000 MTP VCM Expension, Map Ta Phut Vattana Phaisal Engineering Co.,Ltd. CT. CHU (Thai) Industries Ltd. L.G. Engineering Co.,Ltd.					■	
CO CO Phase III Project, Map Ta Phat Thai Electric Development Associates Co.,Ltd. Sino-Thai Engineering & Construction Public Co.,Ltd. Taisei (Thailand) Co.,Ltd. BLACK & VEATH POWER (THAILAND) LTD.			■			■
HMC PP Project, Map Ta Phut CTCI (Thailand) Co.,Ltd.					■	
RRC Pipe Rack Project, Map Ta Phut Sino-Thai Engineering & Construction Public Co.,Ltd.					■	
Thai Tank Terminal Phase IV Thai Tank Termenal Co.,Ltd.					■	

Past Experience

Materials Testing Services (Contd.)

Project	Topo. Survey	Geotech. Surveying	Soils Testing	Pile Testing	Material Testing	Site QC. Audit
NPC Project, Map Ta Phut Saoyai Engineering & Construction Co.,Ltd. State Construction Co.,Ltd. Sino-Thai Engineering & Construction Co.,Ltd. PPSC Construction & Supply Co.,Ltd. PAE (Thailand) Public Co.,Ltd.					■	
IP Co-Gen Power Plant Project, Map Ta Phut Thai Jurong Engineering Limited					■	
TPI Phase III Project, Rayong LG Engineering Co.,Ltd.					■	
Siam Polyethylene Project, Map Ta Phut Mc Connell Dewell (Thailand)					■	
ROC Project, Map Ta Phut SKEC (Thai) Limited Taisei Corporation Italian-Thai Development Public Co.,Ltd. YTC Corporation Samsung Heavy Industries (Thailand) Co.,Ltd.			■			■
Tycoon Project, Pluakdaeng Ruampan Machinery Ltd.,Part. T & PU Engineering Ltd.			■		■	■
Thai Copper Project, Pluakdaeng Thai Gammon Limited.			■		■	■
LSADO Project (Esso), Sri Ra Cha State Construction Co.,Ltd. Swot Construction Co.,Ltd.			■		■	■
SSG-TOA Auto Motive Grass Factory, Rayong The Seaboard Group					■	
BST Project YCT Corporation Ltd. Dong Yong (Thailand) Co.,Ltd. Mc Connell Dowell (Thailand) Limited. Thai Nichi Construction Co.,Ltd. Stacon Company Limited. TSB Construction Co.,Ltd. Dynamic Engineering System Co.,Ltd.					■	

Past Experience

Materials Testing Services (Contd.)

Project	Topo. Survey	Geotech. Surveying	Soils Testing	Pile Testing	Material Testing	Site QC. Audit
SOC & Dow JA Companies, Map Ta Phut Mc Connell Dowell (Thailand) Co.,Ltd.					■	
BST Project State Construction Co.,Ltd.					■	
2nd. Aircraft Manitenance Center Sattahip Thai Airways International					■	
Raw Water Pipeline, Chonburi Sino-Thai Engineering & Construction Public Co.,Ltd.					■	
National Power Supply Project, Rayong Rayong Contract Engineering Group Co.,Ltd.					■	
MMC Copper Tube Project, Rayong Singkee-Thai Ryowa Joint Venture					■	
Amata EGCO Power Plant, Bang Prakong Thai Leighton Limited.			■		■	■
ABB-IP Cogen Project, Map Ta Phut Sino-Thai Engineering & Construction Public Co.,Ltd.					■	
Asian University of Science and Technology Italian-Thai Development Public Co.,Ltd.					■	
General Moter Assembly Project, Bowin, Chonburi Chistian & Nielsen (Thai) Public Co.,Ltd. Sino-Thai Engineering & Construction Public Co.,Ltd.					■	
Bangkok Co Generation Project, Rayong Thai Leighton Limited					■	
Tuntex II Project, Rayong Rayong Contract Engineering Group Co.,Ltd. CTCI (Thailand) Co.,Ltd.					■	
Bendix Thailand Manufacturing Facility, Chonburi Bendix Mintex Pty Ltd.			■			■
SIPCO Power Plant Project, Bangkok Siam Kolon Co.,Ltd.					■	
Avery Dennison Asean Coating Facility, Bowin Thai Leighton Limited					■	

Past Experience

Materials Testing Services (Contd.)

Project	Topo. Survey	Geotech. Surveying	Soils Testing	Pile Testing	Material Testing	Site QC. Audit
Unity Industrial Co.,Ltd. Project, Bankhai China State Construction Engineering (Thailand) Co.,Ltd.					■	
PPG Project, Map Ta Phut State Construction Co.,Ltd.					■	
Rayong Bulk Terminal Project, Map Ta Phut Rayong Bulk Terminal Co.,Ltd.					■	
H.C. Strarch (Thailand), Map Ta Phut Samson Engineering Co.,Ltd.					■	
Thailand Aromatics Project (TARP) Esso, Sri Ra Cha Sino-Thai Engineering & Construction Public Co.,Ltd. Bilfinger+Berger (Thai) Construction Co.,Ltd. Swot Construction Co.,Ltd.					■	
I.P.T. Project (Thaioil), Sri Ra Cha Sino-Thai Engineering & Construction Public Co.,Ltd. Time Star Trading Limited Partnership					■	
Ucthai Latex Relocation, Map Ta Phut Union Carbide (Thailand) Limited.			■		■	■
Sahacogen Gas Pipeline Project, PAE (Thailand) Co.,Ltd.					■	
Thai Nox Project, Bankhai Italian-Thai Deveiopment Public Co.,Ltd.					■	
Big III (Distribution Center) Stancon Company Ltd.					■	
Tri Energy IPP Project, Ratchaburi lack & Veath (hailand) Co.,Ltd.					■	
THASCO Project, Map Ta Phut T The Seaboard Group Co.,Ltd. Swat U-Dom Engineering (1996) Co.,Ltd.					■	
American Standard New VC Project, Map Ta Phut Ocean Construction American Standard Sanitary Ware (Thailand) Public Co.,Ltd.					■	
Water Treatment Plant (Glow SPP PLC) Maptapkhut, Chemitreat (Thailand) Co., Ltd.				■	■	

Past Experience

Materials Testing Services (Contd.)

Project	Topo. Survey	Geotech. Surveying	Soils Testing	Pile Testing	Material Testing	Site QC. Audit
SSM Maptaphut , Rayong Rayong Intrania Co., Ltd.				■	■	
ก่อสร้าง บริษัท ไตรเศ สยาม จากค อ.แกลง Bilfinger+Berger (Thai) Construction Co.,Ltd.				■	■	
Industrial Estate , Rayong Danieli Factory , Eastern Seaboard B.S.Y. Construction Co., Ltd.				■	■	
GAS Treatment Unit (PLS UBE Group) NPCT Co., Ltd.				■	■	
FRC Thaiarometric Factory Maptaphut Thai Nippon Concrete Co., Ltd.				■	■	
Silo 75 Tons, Maptaphut 'Bayer' State Construction Co., Ltd.				■	■	
Expansion Plant U-400 National Fertilizer Pcl. National Fertilizer Public Company Limited				■	■	
NFC Project , Maptaphut 3114 Engineering Co., Ltd.				■	■	
40 Bar Steam Supply to BPE, Mapataphut T Tiwa Engineering & Consultant Co., Ltd.				■	■	
GE Plastic Process Line Expansion, Eastern Seaboard Thai Leighton Ltd.				■	■	
Rohm & Haas Project, Maptaphut Total Plant Service Co., Ltd.				■	■	
Filter Modified, Bangparkong Rayong Intrania Co., Ltd.				■	■	
SSC-New Warehouse Project, Maptaphut Rayong Dex Engineering Co., Ltd.				■	■	
Repair of Pipe Rack at Cell Room Project, RC Engineering Co., Ltd.				■	■	
ATC Project, Maptaphut Rayong SKEC Engineering Co., Ltd.				■	■	

Past Experience

Materials Testing Services (Contd.)

Project	Topo. Survey	Geotech. Surveying	Soils Testing	Pile Testing	Material Testing	Site QC. Audit
New Maintenance Shop, Siam Seaport, Chonburi Container Construction Co., Ltd.				■	■	
SKPM Expansion No.2, Bankai, Rayong Siam City Corporation Co., Ltd.				■	■	
GAS Treatment Unit , Maptaphut Rayong NPTC Co., Ltd.				■	■	
NG Pipeline & Mir Station PTTUT, Rayong Rayong Intrania Co., Ltd.				■	■	

Past Experience

Materials Testing Services The Industrial Estate Area List

	• Map Ta Phut Industrial Estate • Chonburi (Bo-win) Industrial Estate • Laem Chabang Industrial Estate • Eastern Seaboard Industrial Estate • Asia Industrial Estate		• Hemaraj Chonburi Industrial Estate • Hemaraj Eastern Industrial Estate (Map Ta Phut) • Eastern Seaboard Industrial Estate (Rayong) • Hemaraj Eastern Seaboard Industrial Estate • Rayong Industrial Land
	• Amata City (Rayong) • Amata Nakorn Industrial Estate (Chonburi)		Padaeng Industrial Estate
	304 Industrial Park (Prachinburi)		Rojana Industrial Park Public Co., Ltd.
	Ticon Logistics Park		Gateway City Industrial Estate
	Pinthong Industrial Estate		Bangpa-In Industrial Estate
	Siam Eastern Industrial Park		Nava Nakorn Industrial Park

Materials Testing Services The Owner and Project name List

	PITGroup		Tuntex Textile (Thailand) Co., Ltd.
	St. petroleum Refinery Co., Ltd.		Thai Polycarbonate Co., Ltd.
	Alliance Refining Co., Ltd.		Thai Polyacetal Co., Ltd.
	ESSO (THAILAND) PUBLIC CO., LTD		D., iali Far East Co., Ltd
	Chevron (Thailand) Ltd.		OANI(U FAR EAST
	The Shell Co., Ltd.		Thaipublic Co., Ltd
	Bangchak Petroleum Public Co., Ltd.		c., adoil Group
	MIODS International (Thailand) Co., Ltd.		Bayer Group in Thailand
	Asia. Silicone Monomer Limited		Pnc (Thailand) Com Ltd.
	Adly Bifa Group		Bluescope Steel (Thailand) Co., Ltd.
	Guardan Industries Rayong Co., Ltd.		General Environment Conservation Public Company Limited
	Virrtai Public Co., Ltd		OCM Chemical Thailand Ltd
	TOC Glyco Limited		HMC Potjmer Co., Ltd.
	EGCO Power Plant Group		H.C. Starek Co., Ltd.
	Thai Oleochemicals Co., Ltd.		Thai Petroleum P., Ine Co., Ltd.
	TPT Petrochemicals Public Company Limited		Indorarna Peb'Ochem Ltd.
	T Group		Ktoen Natie Thdand Co., Ltd.
	Rohm And Haas Chemical (Thailand) Ltd.		Slim Yamai D Steel Co., Ltd.
	Thai Choline Chloride Limited		Thai Tank Terminal United (TTI)
	SinCement Group		The Aromatics (Thailand) Public Co., Ltd.
	Air Liquide (Thailand) Co., Ltd.		B., gkok Polyethylene Pic.
	AJJD Alliance (Thailand) Co., Ltd.		Siam Unled Sae (1995) Co., Ltd.
	Unihli Group Co., Ltd.		General Motors Thailand Limited
			BLCP Power Station

Materials Testing Services The Contractor Name List

Alliance Refining Co.,Ltd.	Thai Rotary Engineering Co., Ltd.	Tractebel Engineering international Ltd
C.E. Industries Service Co., Ltd.	Ritta Co.,Ltd. (Phromyotankran Rayong)	Samsung Engineering Co.,Ltd.
C.E.S. Co.Ltd.	Souht Taksin Co., Ltd.	Poseidon Associate Group Co.,Ltd.
CBI (Thailand) Ltd.	Rayong Karntang Co.,Ltd.	National Fertilizer Public Co.,Ltd.
Chouthai Industries Ltd.	Thai Polycarbonate Co.,Ltd.	Ltec Engineering Construction Co.,Ltd.
CM-15 Construction Co.,Ltd.	Rayong Contech Co.,Ltd.	General Environmental Conservation PLC
Italian-Thai Development PCL	Banchang Maintenance Co.,Ltd.	S-Plus Engineering Co.,Ltd.
I-Tec Construction (Thailand) Co.,Ltd.	Boonchai Engineering & Construction Ltd.	Rayong Contract Engineering Group Ltd
Jankaseam Yothakarn (2000) Co.,Ltd.	Sino – Thai Engineering & Construction PLC	U.G. Engineering Co.,Ltd.
K.A.S. Group Co.,Ltd.	B.S.Y. Construction Co.,Ltd.	Ritta Co., Ltd.
Lan Hoi Ltd,Part.	Shi – Asia Co.,Ltd.	Hotel Bangkok 2000 Co.,Ltd.
Mahamirt Engineering Co.,Ltd.	Phromyota Kran Rayong Co.,Ltd.	Chonburi Satit Construction Co., Ltd.
NAS Enterprise Co.,Ltd.	Klao Engineering & Construction Co., Ltd	Samson Contractor Co., Ltd.
National Fertilizer Public Co., Ltd	Thai Fukuda Corporation Ltd.	S.Napa (Thailand) Co.,Ltd.
Ninety two Co.,Ltd.	China State Construction Co., Ltd.	Thai Nicians Engineering Co.,Ltd.
NP. Engineering and Steel Work Co.,Ltd.	Sai-Ngarm Transport Construction Ltd., part	Jiem Pattana Ltd., Prat
Peard Corporation Limited	Project Management Engineering Co., Ltd.	Swot Construction Co.,Ltd.
Poseidon Associate Group Co.,Ltd.	Willich Sale & Contracting Co.,Ltd.	National Fertilizer Public Co.,Ltd.
PPEC Engineering Ltd, Part.	Willich Sales and Contracting Co.,Ltd.	Thai Shimizu Co.,Ltd.
Prime Steel Engineering (Thailand) Ltd	Ruampan Machinery Ltd. Part	Chou Thai Industrial Ltd.
Rayong Contract Engineering Group Ltd	Qualitech Engineering & Construction Ltd.	Tasin Co.,Ltd.
S.C. Engineering Management Co.,Ltd.	Siam Nics En – Con Co.,Ltd.	General Environmental Conservation PLC
S.P. Mechanical Engineering Co.,Ltd.	Klao Engineering & Construction Co., Ltd.	Chou Thai Industrial Ltd.
Samson Contractor Co.,Ltd.	YTC Corporation Co.,Ltd.	H.C. Strack Co.,Ltd.
Sriracha Construction (1994) Co.,Ltd.	C.M.P. Center Development Co.,Ltd.	Bilfinger + Berger (Thai) Construction Ltd
SS Construction & Civil Part,Ltd.	Fluor Construction Co., Ltd.	Ritta Hemmarach Co.,Ltd.
State Construction Co.,Ltd.	Kittikeiat Engineering Co., Ltd.	Tractebel Engineering international Ltd
Thai Leighton Limited	Massive Construction Co.,Ltd.	Samsung Engineering Co.,Ltd.
Thai Nippon Road Co.,Ltd.	Mc Connell Dowell (Thailand) Ltd.	Poseidon Associate Group Co.,Ltd.
Thai Ryowa Construction Co.,Ltd.	Chonburi Satit Construction Co.,Ltd.	National Fertilizer Public Co.,Ltd.
Tima Construction & Supply Co.,Ltd.	Thai Takenaka International Ltd.	Ltec Engineering Construction Co.,Ltd.
Tiwa Engineering & Consultant Co.,Ltd.	Thai Rotary Engineering Co., Ltd.	Christiani & Nielsen (Thai) Public Company Limited
		ABB Limited
Alliance Refining Co.,Ltd.	Ritta Co.,Ltd. (Phromyotankran Rayong)	K-Tech Construction Public Co.,Ltd.
C.E. Industries Service Co., Ltd.	Souht Taksin Co., Ltd.	Thai Wat Engineering Co.,Ltd.
C.E.S. Co.Ltd.	Rayong Karntang Co.,Ltd.	Thai Kajima Co.,Ltd.
Chouthai Industries Ltd.	Thai Polycarbonate Co.,Ltd.	Thai Wooree Engineering Ltd.
Thai Nakano Co.,Ltd.	TRC Construction Public Company Limited	Tractebel Engineering International Co.,Ltd.
Thai Polycons Public Company Limited	Thai Maintenance Company Limited	Unimit Engineering Public Company Limited
		Technip Engineering (Thailand) Co.,Ltd.
Foster Wheeler Service (Thailand) Co.,Ltd.	Thai Fukuda Corporation Ltd.	
		Thai Industrial & Engineering Service Public Company Limited
NPTC Maintenance and Engineering Service Ltd.	Hyundai Engineering & Construction Co.,Ltd.	Vancoord (Thai) Co.,Ltd.
KAEFER Engineering (Thailand) Limited	CTCI (Thailand) Co.,Ltd.	TAISEI (Thailand) Co.,Ltd.
		Daewoo Tech (Thailand) Co.,Ltd.
VETCO AIBEL Ltd.	N.S.I Construction Co.,Ltd.	
CUEL Limited	SKEC (Thai) Ltd.	
Demco Public Company Limited	Bovis Lend Leased (Thailand) Ltd.	

Project Management - Typical Services

Pre-Design Phase

- Reconfirm Owner's objectives and key milestone dates
- Prepare initial design and construction development programme
- Prepare outline cash flow analysis for consultancy fees and construction costs

Design Phase

- Conduct initial concept design review meeting with Owner and Consultants
- Prepare master schedule, review and update as necessary
- Prepare development budget
- Undertake comparative cost studies of alternative scheme design proposals
- Coordinate design development, review drawings and specifications
- Conduct weekly design coordination meetings with Consultant team and Owner's Representative
- Conduct design development progress meetings with Consultants and Owner's Representative
- Prepare detailed cost plan, and cost control the design development
- Advise on methods of Tender and Contract
- Advise on longlead procurement items
- Carry out contractor pre-qualification and prepare list of tenderers
- Coordinate production of tender documentation including provisional Bill of Quantities
- Recommend form of agreement, contract conditions, preliminaries, and conditions of particular application
- Supervise tendering process, respond to Tenderers' queries, analyse tenders received and advise on selection
- Produce cash flow analysis
- Review and process consultants' applications for payment

Construction Phase

- Provide assistance to Owner in obtaining any required building and special utilities permits
- Schedule and conduct pre-construction start-up meetings with contractor (s)
- Review bonds, insurances etc, and arrange site handover and access etc.
- Update master schedule to incorporate Contractor's construction programme, issue dates of "Approved for Construction Drawings", and area handover dates
- Initiate QA and QC procedures. Monitor compliance
- Supervise quality control and inspection
- Initiate Safety procedure. Monitor compliance
- Monitor construction progress and conduct regular weekly progress meetings with Architect/Engineer and Contractor
- Conduct regular monthly meetings with the "Project Steering Group", consisting of senior representatives only of the Client, Consultants, and Contractor. Jointly resolve any major problems to progress

Project Management - Typical Services (Contd.)

- Recommend changes as necessary
- Review and process change orders
- Review and process consultants' and contractor applications for payment
- Establish records systems and maintain site records
- Provide periodic cost reports, cash flow reports and forecasts
- Review project correspondence, change orders, and claim submittals. Make recommendations to Owner for resolution of claims and disputes.
- Develop and monitor shop drawing review schedules with Consultants and Contractor
- Develop and monitor materials review schedules with Consultants, Contractor, and Owners Representative
- Review and combine the Consultants' and Contractor's monthly progress reports for submittal to Owner
- Prepare details lists of defects and outstanding works
- Determine date (s) of substantial completion

Post Construction Phase

- Schedule and monitor testing, commissioning and handover of building systems
- Obtain operating and maintenance manuals, spare parts etc.
- Supervise making good defects, outstanding works
- Re-measurement of completed works from as-built drawings and preparation of final account
- Determine date of final completion
- Coordinate and schedule owner occupancy.

Special Services

- Management and supervision of separate trades contractors or Owner's work force
- Services in connection with assessment of loss and replacement in the event of damage by fire etc.
- Services beyond issue of final completion certificate or in the absence of such certificate, sixty days beyond the issue of the practical completion certificate
- Services in connection with expert witness testimony in arbitration proceedings or litigation
- Development of procedures for dispute review boards (DRB) and mediation for claims resolution.
- Provision of litigation support, schedule/delay and disruption analysis, and expert reports.

License for Juristic Person



สภาวิศวกร

ตามพระราชบัญญัติวิศวกร พ.ศ. ๒๕๕๒
ออกโดยอนุญาตให้ไว้เพื่อแสดงว่า

บริษัท โมเดลเตอร์ สจ๊วต จำกัด

ได้รับอนุญาตประกอบวิชาชีพวิศวกรรมควบคุม

เลขทะเบียน ๗๐๗/๕๕

ตั้งแต่วันที่ ๗ กุมภาพันธ์ ๒๕๖๘ ถึงวันที่ ๖ กุมภาพันธ์ ๒๕๗๑

นาย ธีรภัทร

(นายชเชศ วีระศิริ)
นายกสภาวิศวกร

สแกน QR Code
เพื่อตรวจสอบเอกสาร ๒๗ ม.ค. ๒๕๖๘ ๑๓.๕๖ น.



Scope of Service

SCOPE OF SERVICE

IN-SITE TESTING : ทดสอบงานสนาม

- Soil Investigation : เจาะสำรวจชั้นดิน
- Field Vane Shear : ทดสอบแรงต้านทานแรงเฉือนสนาม
- Cone Penetration Test : ทดสอบ CPT
- Kunzelstab : การตอกหยั่งชั้นดินแบบเบา
- Field Density Test : ทดสอบความหนาแน่นสนาม
- Field CBR Test : ทดสอบ CBR สนาม
- Plate Bearing Test : ทดสอบความแบกทานของดิน
- Soil Resistivity Test : ทดสอบความต้านทานไฟฟ้าของดิน
- Field Permeability Test : ทดสอบค่าการซึมผ่านของดิน
- Ground Water Monitoring Well : บ่อสำรวจน้ำใต้ดิน
- Trial Pit Investigation : สำรวจบ่อทดสอบ

LABORATORY TEST : งานทดสอบห้องปฏิบัติการ

- Construction Material Testing : ทดสอบวัสดุก่อสร้าง
- Soil Engineering Property Test : ทดสอบคุณสมบัติของดินทางด้านวิศวกรรม

TESTING FOR CONCRETE EVALUATION : ประเมินสภาพคอนกรีต

- Visual and Condition Survey : สำรวจสภาพคอนกรีต
- Chloride Content Test : ทดสอบหาปริมาณคลอไรด์
- Sulphate Content Test : ทดสอบหาปริมาณซัลเฟต
- Ultrasonic Pulse Velocity Test : ทดสอบแบบ UPV
- Anchor Bolt Testing : ทดสอบแรงดึง Bolts
- Compressive Strength Test : ทดสอบกำลังอัดคอนกรีต
- Coring Concrete for test : เจาะตัวอย่างคอนกรีตเพื่อทดสอบ
- Schmidt Hammer Test : ทดสอบความแข็งของคอนกรีต
- Located Rebar in concrete : ตรวจหาตำแหน่งของเหล็ก

PILE TEST : ทดสอบเสาเข็ม

- Seismic Test : ทดสอบความสมบูรณ์ของเสาเข็ม
- Dynamic Load Test : ทดสอบการรับน้ำหนักของเสาเข็มด้วยวิธีพลศาสตร์
- Static Load Test : ทดสอบการรับน้ำหนักของเสาเข็มด้วยวิธีสถิตศาสตร์

REFRACTORY TEST : ทดสอบปูนทนไฟ

- Cold Crushing Strength : ทดสอบแรงอัดสภาพเย็นตัว
- Bulk Density Test : ทดสอบความหนาแน่น
- Permanent Linear Change : ทดสอบการหดตัวทางยาว

CORING & CUTTING CONCRETE : บริการงานเจาะ & ตัดคอนกรีต

- Coring $\varnothing$ 1" - 24" : เจาะคอนกรีตขนาด $\varnothing$ 1" - 24"
- Opening & Cutting the concrete : เจาะช่องเปิดคอนกรีต
- Coring & Installation Bolts : เจาะและติดตั้ง Bolts
- Pull out Test : ทดสอบแรงดึงของ Bolts

ASPHALTIC CONCRETE TEST : ทดสอบแอสฟัลต์

- Core Sampling : เจาะตัวอย่างแอสฟัลต์
- Bulk Density : ทดสอบความหนาแน่น

SURVEY WORK : บริการงานสำรวจ

- Topographic Survey : งานสำรวจภูมิประเทศ
- Construction Survey : งานสำรวจก่อสร้าง

CONSTRUCTION SERVICES

- Design and Construction Management
- Commercial and Contract Management
- Project Management

TECHNICAL SERVICES

- Building Appraisals & Property Acquisition
- Audits of Partially Completed Building

BOULTERSTEWART LTD.

บริษัท โบลเตอร์ สจ๊วต จำกัด



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CONSTRUCTION MATERIAL TESTING SERVICE