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CONSTRUCTION

NOVEMBER - DECEMBER 2013



Construction of Bouregreg Bridge in Morocco

Indonesia expands Bali international airport

Delhi Metro Phase 3 project well underway

Changi Airport T5 planned to be ready in mid-2020s

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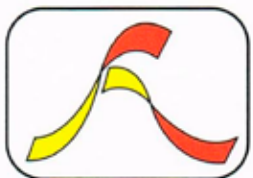


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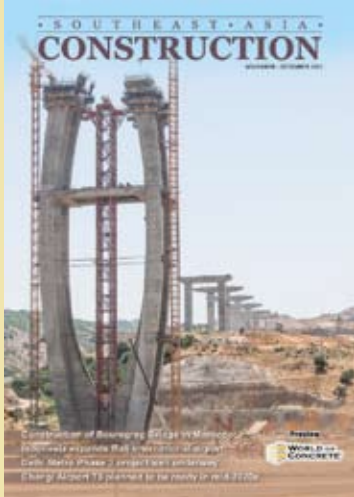
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Contents

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On the cover:
The Bouregreg Bridge project in Morocco
(page 76)

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NEWS

News in Southeast Asia	12
News in Southeast Asia & Australasia	18
News in East Asia	20
News in India & the Middle East	22
News in Europe	24
News in the Americas	26
IPAF Highlights	28

EVENTS

Calendar of Events	30
Industry Events	32

PRODUCTS

New In Industry	37
Instrumentation	42
Road Construction Equipment	45
Mixed Category	48



12



20



16



35



32



41



39



45



48



37

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Contents

PROJECTS & SPECIAL FEATURES

Applications On Site	50
Product Feature	58
Airport Project	70
Bridge Project	76
Tunnelling Project	82
High-Rise Project	86
Focus on South Asia	90
Focus on the Middle East	104
Preview of World of Concrete 2014	110



94



106



86



110



50



58



62



70



82

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Changi Airport's Terminal 5 to be ready in mid-2020s

The Changi 2036 Steering Committee (SC) has unveiled plans on the expansion of Changi Airport in Singapore, including the construction of a new mega-terminal and the implementation of a three-runway system.

Minister of State for Finance and Transport Mrs Josephine Teo, chairperson of the Changi 2036 SC, said that Terminal 5 will be able to handle 50 mppa (million passenger movements per annum) initially. Based on current planning, it will be ready for operations in the mid-2020s.

Terminal 5 is set to be one of the largest terminals in the world. Two conceptual options for the layout of Terminal 5 have been developed with various considerations, such as passenger convenience and airfield and terminal operations efficiency in mind. Terminal 5 will be linked to the other terminals at Changi Airport, allowing the expanded Changi Airport to be operated as a single, integrated airport for ease of transfer between different terminals, maximum passenger convenience and airfield operational efficiency.

Being a mega-terminal, Terminal 5 will introduce new modes of operation for the airport operator and government agencies, and other stakeholders such as airlines, ground handlers, air cargo operators and Maintenance, Repair and Overhaul (MRO) service providers. The Civil Aviation Authority of Singapore (CAAS) intends to seek views from these stakeholders over the next two months to further refine the layout. The Concept Plan is expected to be finalised in the first half of 2014.

In addition, a three-runway system will be implemented at Changi Airport around 2020. The project will be complex, with extensive land preparation, such as clearance of existing vegetation, soil top-up and improvement works, having to be carried out first on the 1,080 ha reclaimed site.

The existing Runway 3, currently used by the military, will be extended from 2.75 to 4 km to handle larger passenger aircraft. Almost 40 km of new taxiways will also be built to connect the runway with the current airport and to allow for efficient aircraft movement. New facilities such as navigation aids, airfield lighting systems and a fire station will need to be built as well.

Planning and preparatory works for the project have already started. For example, consultants are being appointed to advise on the specific land preparation works needed and to carry out various engineering studies.

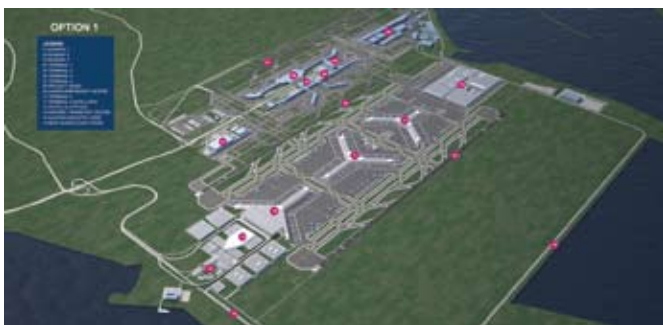
Singapore's logistics and aerospace industries are projected to continue growing robustly, driven by growing intra-Asia trade and expanding fleets of Asian carriers, as well as Singapore's strategic location, strong connectivity and efficient infrastructure. To support the long-term growth of these sectors, land has also been set aside to the north of the new Terminal 5 for facilities for airfreight and air express operators as well as MRO activities.

In order to create a contiguous and integrated airfield, the existing Changi Coast Road and the park connector beside it will be replaced with a new at-grade road and park connector further east, along the eastern coastline. Works are expected to start in the second half of 2014.

For good ground connectivity, the road infrastructure will be improved to ensure convenient access to Terminal 5. The terminal will also be connected to the MRT network. More details will be released after engineering studies are completed. The adequacy of bus services to the airport will also be reviewed. These plans will ensure that all airport users and staff are able to travel to the airport easily and conveniently.

Changi Airport currently has three terminals, two runways and a total passenger handling capacity of 66 mppa. It will have four terminals and three runways with a total capacity of 85 mppa by around 2020. When Terminal 5 starts operations in the mid-2020s, Changi Airport will have five terminals with a combined capacity of 135 mppa.

Mrs Teo said the developments at Changi East require careful coordination and will stretch over several terms of government. "For passengers, Changi must mean superior connectivity, convenience and comfort. So these plans are significant because they strengthen our air hub. But there is also special meaning for Singaporeans. Changi connects us to the world and the plans open the path to new business and job opportunities. That is really the bigger story to be told." ■



Top and above: Conceptual layout of Terminal 5 – Option 1.



Top and above: Conceptual layout of Terminal 5 – Option 2.

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Indonesia identified as strong potential growth market after China

Construction spending in Asia is forecast to account for almost one half of total global construction spending by 2020. Recent rapid growth in the region has largely been at the expense of declines in both Western Europe and North America, according to the latest Asia Construction Outlook report launched by AECOM and Davis Langdon, an AECOM company.

Asia Construction Outlook 2013 presents the latest update of the construction market in Asia midway through 2013. The report reveals industry activity levels in 2012 and provides near- and longer-term forecasts for construction by region, country and city. The findings are based on analysis of sector statistics combined with the results of market sentiment surveys undertaken by 41 AECOM construction experts across nine countries in Asia. Published twice a year, Asia Construction Outlook is designed to provide a regular review of, and forecast for, the construction markets in Asia.

“Market intelligence of this type is invaluable for proactive organisations looking for new or alternative markets to enter and is something that can be overlooked by construction businesses, which often tend to be reactive,” said David Crosthwaite, author of the paper and associate director of AECOM’s business intelligence team.

“Coupled with our 40 years of experience in the market, I believe this paper will provide an insightful perspective for the industry to understand the construction trends and activities in the region,” added Dato’ Sri Kandan, chairman of Davis Langdon KPK. “Long-term planning and managed implementation are the keys to the sustainability of the construction industry, particularly in Asia.”

AECOM’s analysis highlights the following key trends:

- *Asia will be the world’s fastest growing construction region between now and 2020.*

While Western economies have slowed, Asia has maintained strong growth and has been less impacted by the global economic downturn in recent years. Asia has also become increasingly dependent on domestic demand, through burgeoning affluence and urbanisation, for its continued growth. Asia is the largest regional construction market worldwide, accounting for some 40 percent of global construction

spending in 2012. Indeed, construction spending in Asia is forecast to account for almost one half of global construction spending by 2020.

- *Growth in India depends on its ability to attract private finance.*

Given its population size comparable to that of China, India offers a significant level of opportunity, however, its construction sector is only about one-third the size of the China market. With public investment levels likely to be constrained, India’s growth will greatly depend on its ability to attract private finance.

- *Indonesia is identified as a strong potential growth market after China.*

China accounts for some 41 percent of the Asia Pacific region’s total construction spending, with expenditures of US\$1.25 trillion last year. In addition, Indonesia emerges as a particularly interesting market. Construction spending in the world’s fourth most populous country accounted for more than a quarter of the nation’s GDP in 2012, with around half of this expenditure funding infrastructure projects. Meanwhile, the AECOM’s survey also found that Jakarta, the capital of Indonesia, is viewed as the number one city in the region for potential market growth and profitability.

- *New spending and funding trend in the construction sector identified.*

Construction activities will shift away from non-residential structures and, instead, move towards infrastructure and then, in the longer term, to residential projects. Funding models are also evolving in Asia, with growing use of private finance, including public-private partnerships (PPP).

- *Japan’s construction spending is unlikely to sustain.*

Japan is also identified as a key growth market through to the end of the decade. Japan is expected to see sizeable growth in construction spending through to 2018 as the earthquake/tsunami reconstruction effort gathers pace. However, the reconstruction is only expected to provide a short-term spike in construction activity, which is likely to return to trend later in the decade. ■

First Forbes Media Tower to be built in the Philippines

Forbes Media is working together with the Philippine real estate firm Century Properties Group to build the world’s first Forbes Media Tower in Makati, Metro Manila, in the Philippines. A commercial office building, the Forbes Media Tower is designed to serve the world’s business leaders by providing an environment to conduct business with premium amenities. This initial tower is expected to be part of a network of Forbes Media Towers around the world.

“We’re very pleased to be collaborating with Century Properties for the first Forbes Media Tower as we extend our brand into the global real estate development market. Forbes has always been an authoritative resource for the world’s business leaders, and this tower further reinforces our long-standing mission,” said Mike Perlis, president and CEO of Forbes Media. “The Philippines, with its rapidly growing market and strong relations with the US, is the perfect location to launch this effort.”

The Forbes Media Tower in the Philippines will offer approximately 60,000 sq m of premium office space, which

will be available for sale and for rent to business owners, entrepreneurs and companies by the first quarter of 2014. In addition to office space, the building will provide meeting and event space with plans for a fine dining restaurant, fitness centre and exhibition facilities.

“This is a historic and groundbreaking moment for us. It is just the start of our plan for an expansion into Forbes real estate development projects around the world,” said Miguel Forbes, president worldwide development of Forbes Media, who is spearheading this initiative. “We will continue to explore new Forbes Media Tower opportunities globally and couldn’t be more excited to pursue this new and potentially transformative initiative.”

The tower will be located in Century City, a mixed-use development of Century Properties in the central business district of Makati. The tower’s location is part of an IT zone, which will allow accredited locators to benefit from incentives from the Philippine Economic Zone Authority (PEZA). ■



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Singapore to build 17-ha mega healthcare city

Plans have been announced for a mega integrated healthcare hub, to be built around Tan Tock Seng Hospital in Singapore, designed by global architecture, urbanism and design practice Broadway Malyan.

The new Health City Novena development is spearheaded by Tan Tock Seng Hospital, the National Healthcare Group and Singapore Health Ministry, and will serve patients in central Singapore. Broadway Malyan's Singapore-based team is delivering the detailed master plan, architectural and landscape design services, in collaboration with Surbana International Consultants, which is leading on project management and engineering services.

The scheme will link existing healthcare facilities and the Lee Kong Chian School of Medicine to create the largest healthcare complex in Singapore, which will also host a new National Skin Centre. It will offer a full range of acute to intermediate and long-term care and holistic care services, including wider research and education, commercial, leisure and public spaces.

Expected to be completed in 2030, it will serve 30,000 patients, visitors, staff, students and residents a day, doubling the current 15,000 who visit Tan Tock Seng Hospital. Existing low-rise old buildings will be replaced with space-efficient multi-storey blocks to increase the floor space from 250,000 to 600,000 sq m; the number of beds will be increased by 25 percent to 2,200 and 10 buildings will be physically connected, including Tan Tock Seng Hospital.

Broadway Malyan's community-focused design philosophy will deliver a highly sustainable complex with a large, central open space featuring a new plaza, aimed at putting the community at the heart of the inter-connected buildings. ■



The new Health City Novena development will link existing healthcare facilities and the Lee Kong Chian School of Medicine to create the largest healthcare complex in Singapore.

Infrastructure expenditure increases in the Philippines

According to business intelligence firm Timetric, Infrastructure construction is the largest and fastest-growing market in the Philippine construction industry. Infrastructure accounted for a market share of 37.3 percent and was valued at US\$9.6 billion in 2012. The market grew at a Compound Annual Growth Rate (CAGR) of 12.12 percent and is expected to reach a CAGR of 8.19 percent by 2017. This growth is a result of problems caused by large-scale flooding in 2012.

The Philippines' construction industry is dependent on imports due to the increasing demand for construction machinery for domestic construction projects. Several mega infrastructure projects are being undertaken by the government, which means importing a large volume of equipment. The National Economic and Development Authority launched a US\$8.3 billion flood management plan to improve drainage systems, river capacities and flood ways in Manila and neighbouring areas due to flooding in 2012. The plan is expected to be implemented in phases through to 2035.

Despite this, the Philippines has one of the lowest ratios of investment in physical infrastructure to GDP in Southeast Asia; consistently below 3 percent compared to the regional average of 5 percent. Lack of adequate infrastructure has been a deterrent for businesses trying to enter the Philippine market. The new government initiatives are expected to support the expansion of the infrastructure construction market over the forecast period.

The Timetric report: 'Construction in the Philippines – Key Trends and Opportunities to 2017' was published in August 2013. ■

Faithful+Gould opens Thailand office

International project and cost management consultancy Faithful+Gould has expanded into Thailand with a new office, located in the Empire Tower on South Sathorn Road in Bangkok. This move will further boost Faithful+Gould's presence and network across Thailand and the Asia Pacific region, providing strategic project support and servicing to clients with their regional operations. Faithful+Gould's other offices in the Asia Pacific region are located in China, Hong Kong, India, Malaysia and Singapore.

Colin Bird will be taking up the position as director of Faithful+Gould in Thailand. He transferred from Faithful+Gould's Singapore office. Mr Bird is currently spearheading the FMC Thailand MCC manufacturing facility project in Rayong Thailand. Immediately following his appointment, Mr Bird has successfully closed a new deal of a 6,000 sq m villa estate renovation project in Phuket. ■

Volvo Group Singapore appoints Valery Muyard as new general manager



Volvo Group Singapore has appointed Valery Muyard (left) as its new general manager. He succeeds Mark Gabel, who has joined Volvo Construction Equipment Indonesia as its business director.

Mr Muyard brings 13 years of experience with the Volvo Group, having served at various posts with Volvo Trucks, UD Trucks, Renault Trucks and Volvo Construction Equipment. In his most recent role as vice president of aftermarket commercial & retail operations of Volvo Group Thailand, which he had served since February 2011, Mr Muyard was responsible for developing wide retail distribution networks for the group. ■



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Work starts on new 'green campus' in Iskandar Malaysia

The Management Development Institute of Singapore (MDIS) has begun work on its new RM300 million Malaysia campus. Located at a 30-acre freehold site in EduCity@Iskandar, Johor, it is MDIS' second overseas campus – the first one is at Tashkent, capital of Uzbekistan in Central Asia, built in 2008 at the cost of US\$20 million.

In line with MDIS' global 'green campus' philosophy, the new integrated campus will be fitted with solar panels, rainwater collection tanks and green walls to reap up to 10 percent of energy and water savings annually. It will also boast state-of-the-art facilities and amenities with eco-friendly and disability-friendly features.

According to MDIS, the new Malaysia campus will be five times bigger than the Singapore campus and will have some of the most advanced equipment and facilities, including two student hostel blocks built initially to house 1,400 students in 2015 when the first phase of construction is completed. The campus can house up to 2,000 students when the first phase is completed; the number of students will increase to 5,000 when the second phase is completed by 2018. And when all three phases are fully completed in 2023, the campus will be able to accommodate up to 10,000 students.

EduCity@Iskandar is a major flagship development in the Iskandar Growth Region in Johor, covering about 305 acres including



The new MDIS Malaysia campus will be fitted with solar panels, rainwater collection tanks and green walls to reap up to 10 percent of energy and water savings annually.

an International Students' Village. EduCity@Iskandar will provide student accommodation, a 12,000-seat Stadium and Sports Complex, and a Multi-Varsity Enterprise Complex for shared usage by the institutions of higher learning. ■

Thiess to construct A\$650 mil Moreton Bay Rail Link in Queensland

Thiess has won the A\$650 million contract to deliver the long awaited Moreton Bay Rail Link, which will service a major suburban growth corridor in South East Queensland, Australia. Thiess is the construction spearhead of the Trackstar team that includes design subcontractors Aurecon, AECOM, Hassell and geotechnical subcontractor Golder Associates.

First proposed more than a century ago, the 12.6 km rail link will connect the greater Brisbane rail network, which currently ends at Petrie, to the rapidly growing Moreton Bay region. New stations will be built at Kippa-Ring, Rothwell, Mango Hill East, Mango Hill, Murrumba Downs and Kallangur. The project will require a workforce at its peak of 1,000 people and is scheduled to be operational by June 2016. ■

John Holland secures Royal Hobart Hospital project

John Holland has been awarded the contract to deliver the A\$365 million Royal Hobart Hospital redevelopment project in Tasmania by the Department of Health and Human Services (DHHS). John Holland will deliver the project under a Managing Contractor (MC) relationship model in joint venture with Fairbrother.

The redevelopment of the hospital is a complex project, which will be delivered in a brownfields environment across two separable portions including construction over an operating facility. The scope of the project includes construction of a new building of two towers and 10 storeys to accommodate operating theatres, women's clinics, endoscopy, paediatrics, maternity and mental health functions together with the refurbishment of existing clinical areas and site wide infrastructure upgrades.

Stage 1 of the MC's services (completion of the Detailed Design and establishment of the GCS) is scheduled to commence soon and Stage 2 construction works are scheduled for completion in June 2017. ■

Singapore's DTL2 to be completed by mid-2016

Singapore's Land Transport Authority (LTA) has appointed McConnell Dowell South East Asia (SEA) Private Limited and SK E&C (Singapore) to complete construction works for three Downtown Line 2 (DTL2) stations following the insolvency of the earlier contractor. Alpine Bau GmbH was awarded the contract for design and construction of the three Downtown Line stations in September 2009; on 19 June 2013, the company filed for insolvency.

McConnell Dowell (SEA) Private Limited will complete the construction of Sixth Avenue and King Albert Park stations and associated tunnels for a contract sum of approximately S\$254 million, while SK E&C (Singapore) will complete the construction of Tan Kah Kee station and associated tunnels for S\$222 million.

LTA said the two contractors were selected as they have the relevant technical expertise and resources to pick up quickly and commence completion works for the three stations. LTA will work closely with the contractors to deploy more resources and manpower so that works can be expedited. With the expedited work schedule, DTL2 is expected to be completed by mid-2016.

"LTA's immediate priority is to start work as soon as possible now that the new contractors are onboard. There is about 50 percent of works on station and tunnel construction to be completed. We will continue to explore areas where we can expedite works to speed up the construction without compromising on the safety," said Chua Chong Kheng, deputy chief executive (LTA). "We seek the continued support of residents and stakeholders in mitigating the delay so that residents can enjoy the benefits of having a station at their doorsteps at the earliest possible."

Construction works at the other nine DTL2 stations are progressing on schedule. Excavation works at all the stations have been completed while base slab concrete works are substantially completed for most of the stations. Overall stations and tunnels are about 50 percent complete. All 12 stations are expected to achieve Basic Structural Completion (BSC) by 2014, following which Electrical and Mechanical works and test running of trains will be carried out. ■