



BAM View is the client magazine of BAM Contractors Ireland - Issue 1, March 2013

BAM Signs **Schools PPP Contract** with Department of Education & Skills

BAM PPP has signed a schools public private partnership (PPP) contract with the National Development Finance Agency (NDFA), acting as procuring agent for the Department of Education and Skills, for the design, build, finance and maintenance of eight schools. The capital value of the new schools is €100 million.

The construction phase will be completed within 18 months and all eight schools will be available for occupancy in early 2014.

The schools, seven post-primary schools and one primary school, are located in Donegal (Letterkenny), Galway (Doughiska), Leitrim (Ballinamore), Limerick (Doon),

Waterford (Tramore), Westmeath (Athlone) and Wexford (Gorey). The projects will employ up to 1,100 people, which in addition to all the site operatives will include architects, engineers, contracts managers and quantity surveyors. BAM will maintain the schools under a 25 year service contract.

Speaking at the signing of the contract, Theo Cullinane, BAM Chief Executive said: "We are pleased to be investing in the Irish market and to have been able to partner with the Department of Education and Skills, the NDFA and our senior lenders Bank of Ireland, the European Investment Bank and the National Pensions Reserve Fund to develop a financing solution for the project. This was

an excellent demonstration of collaborative working and common determination, which has created a strong foundation for a successful long-term relationship between the public and private sectors. More importantly, the successful financing of the project augurs well for future PPP projects.

"The PPP model has a key role to play in strengthening Ireland's infrastructure and can only succeed if there is equity available from the PPP company. Given the current fiscal constraints on Irish government finances, this PPP model is clearly the way forward for continuing investment in our infrastructure.

BAM PPP has a long track record of working with public and

private entities and is very active in the Irish market, having already successfully delivered the M1 Dundalk Western Bypass, the M7 / M8 Portlaoise Bypass and the M25 Waterford Bypass Motorway

schemes. This success in Ireland is mirrored across Europe with over 30 operating concessions in sectors such as roads, schools, healthcare, prisons etc.



'I much prefer the weather in Africa'



Karl with colleague Jan Peter Stoker climbing up to see the waterfalls, a great way to spend a day off work.



Karl Maxwell from Northern Ireland joined BAM International in October 2011 as Cost Controller. After travelling around the globe to various BAM sites, he's now been posted to the Sumbawanga road project. We asked him what life is like there.

I'm part of the commercial department, dealing with day-to-

day project duties including cost control, correspondence, reviewing potential subcontractors and monitoring risks. So to say that in my early career I am getting experience is an understatement, which is great!

This project, as many will know, is a challenging one in terms of location and scale, and I wouldn't deny there are highs and lows. On

the other hand I much prefer the weather in Africa compared with the Netherlands.

At present operations are continuing to push. Progress on earthworks towards Sumbawanga is underway and we have completed those to the Laela side. Also lots of preparation has been going on before the rainy season kicks in.

On our day off, some colleagues and I may venture into the wild and do some climbing to waterfalls or maybe some mountain walking which gives you fantastic views. In summary, on the plains of Africa every sunrise you're sure to learn something new and face a new challenge.

City Gate Park Opens

City Gate Park, constructed by BAM Contractors, consists of three office buildings on a green field site adjacent to Mahon Point Shopping Centre, Cork. The buildings are four and five story high, structural steel and in-situ concrete frames over a pre-cast double basement structure and will in total deliver 25,000m² of usable office and retail space and 600 basement car spaces works involved a full turn-key fit-out of

Block C for Dell/ Quest Software. The works include the installation of associated services and finishes to all common areas and full completion of all external works. There is a strong green emphasis in the design of the development and it is the first commercial office development in Ireland to achieve the coveted US Green Building Council LEED Gold Certificate standard.





Astriningsih (third from left) with her colleagues Imelda Cragg (Document Controller), Esther (Engineer) and Erni Suci Rahayu (Architect Engineer)

Girls with guts...

Construction a male dominated field? The team building the Margo City Hotel in Indonesia includes some female engineers who have significant influence on the project. One is Cost Controller Astriningsih.

I joined BAM Indonesia in 2004 as a Quantity Take Off Engineer. My job was to calculate the quantity of materials for the tender stage. In 2008, I became Quantity Take Off Coordinator. It was a challenge distributing work to the team fairly and choosing the right person for each task. In 2012, I became a Cost

Controller and in July 2012, I moved to the Depok site office as a Cost Controller Engineer at the Margo City Hotel Project. This is my first on-site job in my new role. It was an opportunity for me to practise my knowledge in estimating and learn something new.

No compromises at Al Ain stadium

Works continue at high speed at the Al Ain Stadium project in the Abu Dhabi emirate. The client is Aafaq Holding, but the owner of the stadium and the surrounding commercial buildings and sports centre will be the Crown Prince Court.



41st UAE National Day

When Aafaq Holding awarded the contract for the Al Ain stadium, they described it as adding BAM to the development family. As family members, our Al Ain team recently joined in the celebration of the UAE's 41st National Day. This holiday commemorates the UAE's formal nationalisation and the unification of the seven emirates.

Each year on National Day, 2 December, the people of the United Arab Emirates celebrate in dances and cultural events. School children dress up in traditional clothes and UAE flags are everywhere.

The Al Ain stadium team started the day by forming the number 41, a gesture that was much appreciated by staff members of the client who have their office on site.

Design & Construction
Innovative shading elements have been designed to protect football players on the pitch from direct sunlight. The BAM team has found highly innovative solutions to the challenges they face (particularly due to time constraints). For instance, special concrete mixes make it possible to shorten intervals between pouring beams and the slabs they carry, by several days, and extra long trusses enable the team to construct the roof in one go without interruptions of operations below.

The main challenge of the project is the tight time schedule: the first official match has been scheduled for October 2013, with a rehearsal match in September. The project has not seen any delays to date – and no compromises in quality or safety either. The project fully complied with Abu Dhabi's Estidama environmental requirements and construction has already reached 1.6 million man hours LTI-free.

Australian project updates

Ichthys MOF

'The MOF (module offloading facility) is a structure comprising a cellular cofferdam, precast coping, monopile dolphins and catwalks,' Sander Ammerlaan explains. 'We're in the detailed design phase right now, and concurrent to the design progress we're writing scopes of work, procuring materials and hiring equipment. In the meantime we're of course busy optimising our work sequences and the constructability of the various items. One of my own focuses is the cell template with a diameter of 17.3 metres that we're developing with the Special Equipment Australia team in Gouda.'

The team will be relocating to the project site in Darwin in the course of the second quarter of 2013.

Wheatstone

'The basic design for the Wheatstone project was submitted to the client at the end of July 2012,' Eric Tromper reports. 'Currently the design team is developing the detailed design, and the first reports and drawings have been finished. The engineering team is working on the construction sequence and the procurement of major items. I'm involved with the development of the access trestle. This will be constructed with the cantilever bridge that is being designed and built for this project. My job also includes the procurement of tubular piles and precast concrete items.' The team will stay in Perth until the third quarter of 2013 before mobilising to site in Onslow, in the northwest of Western Australia.



As part of Engineers Week 2013 a team from our Ballymore Water Treatment Scheme headed back to school.

The aim of Engineers Week is to celebrate the engineering profession, to grow awareness of engineers in the community, and to showcase engineering as an exciting and diverse career option for students.

his engineering career and summarised with a brief description of the Ballymore Stage 3 Project that many had been watching unfold and develop from their bedroom windows.

Fiachra the Contracts Manager, Sandra the site Safety Officer and Sinead the Quantity Surveyor gave a presentation to the 4th, 5th and 6th classes at Scoil Mhuire Primary, Ballymore Eustace.

BAM Contractors has been working with Dublin City Council and RPS Consulting Engineers at the Ballymore Eustace Water Treatment Plant for the past six years- modernizing, extending and refurbishing the plant to increase capacity to 320ML/D. The project is due for completion in August of this year.

The presentation gave the young budding engineers an insight to the various types of engineering professions out there and how they contribute to everyday life. Fiachra reminded them of the importance of studying, and gave an introduction into the various projects he has been involved in throughout

To round up the morning, everyone was presented with a hi-viz vest to keep them safe and to tie in with the campaign to encourage children to be active and where safe, to walk or cycle to school.



BAM wins €250m construction contract in Scotland



BAM has been awarded a €250m Borders Railway construction contract in Scotland.

The project will involve BAM companies in Ireland, the UK and the Netherlands.

The contract, involves up to 50 Irish engineers, project managers and quantity surveyors. Works include detailed design and construction works for the new line, which will enter service in 2015 and will re-establish a passenger rail link for the first time in over 40 years from Edinburgh through Midlothian to Tweedbank.

The announcement follows BAM Contractors' recent PPP contract with the National Development Finance Agency (NDFA) for the design, build, finance and maintenance of eight schools across Ireland.

"BAM Contractors is delighted to be working with our BAM partners on this significant Scottish infrastructural project, which is an excellent demonstration of combining the group's capabilities to work on complex multi-disciplined projects," said Theo Cullinane, BAM chief executive. "This contract is an endorsement for BAM Contractors as an innovative company with the proven ability to drive efficiency through the construction process. We are now involved in sustainable infrastructure and building projects across the world, from Jordan to Scotland, and we look forward to a busy year in 2013."

Network Rail, the owner-operator of Britain's railways, is delivering the Borders Railway on behalf of the Scottish Government. The project is part of the Scottish Government's wider programme of investment in transport infrastructure, working towards the sustainable economic growth of Scotland.

Deirdre Kelly in Jordan



BAM Safety Awareness Audit, certification for OHSAS 18001:2007

Deirdre Kelly, has worked for BAM in Ireland since 2002 and commenced her role as the HSES Manager for the Aqaba New Port Project, in January 2012.

Life in Jordan is a little different to the Emerald Isle! Working and living in the Middle East has been a challenge to say the least but it has been a good challenge. It took some time to get used to the different cultures in Aqaba, as I am sure it took the people in Aqaba some time to get used to the 'Irish invasion' in their town.

Aqaba is a coastal city situated at the north eastern tip of the Red Sea, which is the southernmost part of Jordan. It is one of the main tourist attractions in Jordan, famous for its warm water and rich marine life. During the Summer months Deirdre and her colleagues went on boat trips

and enjoyed snorkelling in the Red Sea followed by a BBQ. Aqaba contains the country's only seaport. BAM in a joint venture with MAG Engineering & Contracting Co. has been contracted to construct the Aqaba New Port development. The site is located approximately 20 km to the south of Aqaba city, on the shore of the Red Sea. The project is currently at its peak. The construction team is busy with marine and land piling works, installation of tie rods, land based dredging, breakwater and revetment construction and concrete works.

BAM has implemented a high standard of safety on the ANP project which has had a positive impact on our employees who are made up of multiple nationalities. The safety culture has grown and developed since the commencement of the

project. The workers are learning how to carry out their work safely and they are now thinking about their own safety and the safety of their colleagues before they start their work. We reward them by giving out safety awards of the month to both individuals and groups.

The site took part in the BAM Safety Awareness Audit in November 2012 and achieved BAM International's highest score to date. The site was also audited in February 2013 and obtained certification for the OHSAS 18001:2007 standard.

Overall life in Jordan has been a good experience for Deirdre and she is looking forward to another hot Summer in Aqaba.



HSES Manager treated Group No. 8 - Plant to dinner in Captain's Restaurant as part of their prize for winning Safety Award of the Month



Aqaba New Port Project Overview

FEED contracts explained

BAM International in joint venture with Stefanutti Stocks and BESIX recently acquired a FEED contract for the Simandou marine works package. But what exactly is FEED? Project Manager Marco Hop explains.

The acronym **FEED** stands for 'front end engineering design'. In general, this is a broad term that includes all engineering design, studies and other activities for an engineering project. It starts from the baseline design brief and focuses on the technical requirements of the project. It helps determine feasibility and it involves translating the client's intentions and project

specific requirements into a conceptual design and then into a basic design. The FEED package is used as the basis for bidding the EPC (engineering, procurement and construction) phase. The Simandou FEED contract involves project cost estimates as well as developing supporting documents such as HSES, CSR and QA/QC plans, compiling

risk registers and the technical specifications for parts of the project. At the same time contract terms are being negotiated. As it is essential to maintain close communication, both the client and the engineer have a representative based in our office during the FEED execution.

RNLI Baltimore



A BAM consortium has completed the construction of a new afloat berth adjacent to a Grade II listed boathouse for the RNLI at Baltimore in Cork.

The BAM Contractors/BAM Nuttall consortium upgraded the 97 year old boathouse and existing slipway. The upgraded facility now accommodates the new all weather, €3 million, Tamar

Class Lifeboat. The Baltimore project is an extension to the RNLI framework where BAM Nuttall has been a leading partner since 2003.

The civil engineering scheme was overseen by Lloyd Wickens, who has now moved onto managing his eighth RNLI station in as many years, in Wales.

Celebrating safety around the world

Joining in with their colleagues throughout Royal BAM Group, BAM International teams took a time out to consider safety on BAM Safety Day. It was a day of awareness, education, and – not unimportantly – a lot of fun.



The theme of the BAM Worldwide Safety Day was to highlight the good practice happening on our sites, in our offices and departments. It was evident that teamwork is a key aspect to maintaining high safety standards. Everyone can make a difference: We can all look after the safety of ourselves and those around us.



We must maintain our high safety standards and always seek to improve – we must ensure that BAM Safety Day is every day, not just one day a year. Thank you all for your great efforts and the excellent good practice.

Katy O'Leary, Company SHE Manager



Finding safety together: Workshop teams in Gouda were blindfolded to simulate thick smoke in an office fire exercise.



A proud winner of the Aqaba safety competition: Electrical Foreman Kannan Ramasamy receives his prize from HSES Manager Deirdre Kelly and Project Manager Joop van der Wal.



A safety quiz with more than 85% respondents was conducted by the project team with a great deal of high scores. The winners enjoyed the various prizes.



Carpenter Zacharia Mbogo receives his certificate from Project Manager James Aikman, who called him and the other first aid trainees role models for the entire team.

Head office, the Netherlands

At the Gouda office, all departments were invited to take part in short workshops that gave a taste of several safety themes: ergonomics, office fire safety and safe driving. After a presentation by Managing Director Martin Bellamy and Corporate Safety Manager Matthew Friend, everyone split up in teams to follow the workshops. It turned out to be a demonstration of good team spirit: especially in the fire safety workshop, when people were challenged to find their way out of the building while wearing a blindfold.

Aqaba New Port, Jordan

BAM employees in Aqaba celebrated the day together with their colleagues from client Aqaba Development Corporation, joint venture partner MAG and various subcontractors and suppliers. In addition to the educational aspect of the presentation and the Worldwide BAM Safety Day newspaper, there was the presentation of the Safety Award of the Month and a special Safety Day competition, called Spot the Hazard. In this competition, people were challenged to identify as many hazards as possible from the competition poster.

Monrovia Container Terminal, Liberia

Engineers and subcontractors joined in the festivities in Monrovia. They signed a pledge of commitment to safety and enjoyed several prize awards and presentations – one of them a special safety song sung by BAM International employees! To underline their shared commitment to safety, BAM International, client APMT and their consultant Haskoning handed out back packs printed in their three company logos.

Laela Sumbawanga road, Tanzania

On this Tanzanian road project, a special T-shirt was made for all workers and members of staff to show the commitment of the joint venture team. Printed on the shirt were the BAM Safety Day slogan and the joint venture logo. The day's festivities included the award of first aid certificates to twenty-seven workers, including all members of the Safety Committee. They were trained in first aid and emergency services by the Flying Doctors Society of Africa.

KEY PERSONNEL

Theo Cullinane, **CEO**
Leo Harmon, **Main Board Director**

BAM Building
(in addition to Main Board Directors)

Brian Fitzpatrick
Ger Harrington
Perry Houghton
Denis McCarthy
Paul Roche

Regional Directors
Michael Gillen
Ger Moloney

BAM Civil
(in addition to Main Board Directors)

Brian Cunningham
Brian Fitzpatrick
Tadhg Lucey
Paudie Murphy
John Sullivan

Regional Director
Pat Nestor

BAM Property
(in addition to Main Board Directors)

Brian Fitzpatrick
Tom Galvin

Finance Director – Brian Fitzpatrick
Business Development Director – Mike Jones
Commercial Director – Jim Martin
Chief Estimator, Civil – John Murphy
Chief Estimator, Building – Seamus Brady
SHE Manager – Kathy O'Leary
HR Manager – Adrienne Bryan
ICT Manager – Tim McCarthy
Plant Manager – Tommy Flaherty

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