CR Asia - Your reliable partner
The Group Perspective

The 2012 year has been a more challenging year for the Group from a financial perspective as a result of reduced level of shutdowns and major projects after a period of sustained intense activity in 2010 and 2011. The Group remains strong financially and is looking forward to increased levels of activity in 2013.

The CR Asia Group has achieved a number of strategic goals during the year including:

- Acquired our Indian Partners shareholding in CR India
- Established the new workshop in Bintulu
- Developed our new web site and marketing materials
- Invested in additional HPWJ equipment in Malaysia
- Established of the CDT decoking system
- Implemented of the CR Asia Safety Passport Program
- Developed a procedures database from which all employees can access corporate safety and administration procedures.

We have a number of new managers in the business, particularly in Malaysia, Thailand and India, please provide these managers your every support to ensure they soon feel part of the CR Asia Family.

Our CSR programs are gaining momentum particularly in Rayong and Bangkok through the CR Asia dental program for children who live in the Klong Toey slum community.

I urge you all to continue supporting the CR Zero Harm safety campaign throughout 2013, building on our improved safety performance. Please remember "Safety is our First Priority".

Once again on behalf of the CR Asia Board of Directors I want to thank you all for your efforts in 2012 and look forward to a great year in 2013.

Mark Stansfield
Group Managing Director
CR Asia Group, Bangkok

CRAT at PTT GSP # 6

CR Asia Thailand recently performed the first mini shutdown at PPT GSP #6 and provided mechanic and cleaning services on 6 heat exchangers.

CRAT performed this project during February 2012 without any incidents. Some of the recently acquired equipment was deployed on this project, and greatly assisted to produce an effective and safe performance to the client.
XML Company in Laos is a copper and gold mining facility. They have been our client since 2005 and we recently performed a shutdown service for them during 16 Feb to 7 Mar 2012.

The main scope of this shutdown project was pipe work and mechanical cleaning. The mechanical team opened many flanges and cleaned the pipe interior, before re-installing the block valves. We then applied our control system for flange management and we carefully documented every job through our QA/QC system, so that nothing was overlooked.

As there was a lot of work at height, we worked with our safety harnesses with double lanyards to ensure we could execute the work in a professional and safe way.

In September 2012, CRAI team executed DCU heaters decoking project (18 passes) in Jamnagar for EOL Refinery. The significant achievement of this decoking job was that it was carried out successfully with four pumps (2 SPU + 1 DPU) using Singapore supplied CDT pigs for the first time. The job was completed in a record time of 9 days against the slotted period of 14 days. This was achieved due to good project management and work attitude executed by team members including CRAS operators and with timely back up support from CR India.

C.M. Handa
Manager (F&C)
CR Asia India
CRAM was once again trusted by Asean Bintulu Fertiliser Sdn Bhd (ABF) to undertake the Catalyst Change-Out Job for ABF Pit Stop 2012 Shutdown in June 2012. The last change-out works on these reactors was completed by CRAM in December 2010. The works involved the catalyst replacement for 4 reactors namely Hydrogen Removal 21-R001, Pre-Reformer 03-R002, Desulphurization 13-R003A and Low Temp Shift (LTS) 04-R002.

The works were completed in 15 days; however the preparation works started as early as May as all the equipment had to be mobilised from Kemaman and transported by sea-freight via Singapore to Bintulu. The works were jointly executed with CRAS and CR contract technicians supported by Bintulu contract workers. All in all, total 53 personnel were involved in the project in two shifts.

CRAM would also like to thank ABF for their best cooperation and assistance rendered throughout the execution of the work. CRAM look forward to the next change-out works of the same reactors.

Mohd Sidek Atan
Business Unit Manager
CR Asia Malaysia

CRAT completes catalyst job at PTTGC 5 (AR 3)

The new name for AR3 (PTTGS 5), had a catalyst skim and change out in March. There were 3 units to be worked on, namely the CCR, NHTU and Tatory reactors. Working a 2 shift system over 2 weeks, the project finished on time and was handed back to production by the CR Asia Thailand team.
CR Asia Singapore signs major contract for 2013

On Wednesday 27th June 2012 Jelmer Bolt was pleased to sign on behalf of CR Asia Singapore a contract with a key customer for works during the 2013 turnaround. The work is on a Parex Unit to unload adsorbent, all mechanical work inside the unit, and reloading of the new adsorbent. This major project calls for the CR Asia Group to supply specialist labour, specialised tools, hi tech handling equipment and materials for the planning / scheduling, co-ordination, procedure development and field execution.

Jelmer stated that traditionally, the CR Asia project management approach follows the metrics of cost (without sacrifice to safety), schedule, performance, health and safety and CR Asia expertise to evaluate the success of any project. These key areas will be again implemented during the 2013 turnaround to have yet another high quality and efficient change-out.

Tokuyama visit to new CRAM Bintulu yard

On 16th July 2012 CR Asia Malaysia hosted a visit from a delegation of Tokuyama management and engineers to their new yard facility in Bintulu, Sarawak.

Tokuyama is currently building 2 Polycrystalline Silicon Plants at the SCORE development in the Samalaju Industrial Park about 50km north-east of Bintulu. The visit was conducted by the General Manager, Singapore/Malaysia - Mr Jelmer Bolt, and CRAM Bintulu Branch Manager - Ahmmad Farouk Alabdaly - and Operations Manager - Harry Vandermeer.

The purpose of the visit was for Tokuyama to evaluate the capabilities of CRAM for their ongoing project and to see equipment demonstrations including; High Pressure Water Jetting (including TLE’s), Chemical Cleaning, Inert Entry and Catalyst Handling machinery; followed by a detailed technical presentation of our technology.

Jelmer Bolt
General Manager
CR Asia (Singapore & Malaysia)

Harry Vandermeer
Operations Manager
CR Asia Malaysia
During July 2012, CRAS performed the Catalyst Change-out of a vessel during ExxonMobil’s CHD3 Shutdown, and we are extremely proud of our crews for their remarkable achievement during this project. Some of which are:

- **Safety:**
  - Contributed to 34,500 Man-hours without recordable injuries during CHD 3 shutdown.
  - ZERO SHE related incidents.
  - ZERO SHE Tier 1 BP violations.
  - ZERO fire and explosions
  - ZERO equipment failure during S/D & S/U

I would like to thank all involved (office, store and site personnel) for an excellent job done on this CHD3 project. Our crews were led by excellent supervisors, namely Jefri Yasin and Mick Burt, who with the support of Raga, ensured that this project was completed in a safe and professional manner.

Thanks to ExxonMobil for rewarding our guys for their outstanding performance with this beautiful Certificate of Appreciation.

Rudo Steyn
Division Manager - Catalyst Handling Service
CR Asia Singapore

CRAT completes
3 million man hours without LTI

The pride of all CRAT employees was evident when the company achieved the three million man hours without Lost Time Injury milestone and special activities celebrated this event at CRAT Rayong in April 2012. This is the first time that CRAT has surpassed this target, having come close on several previous occasions. The complexity and risk potential of our varied businesses makes this an even more impressive accomplishment.

Given what we know about injury potential, CRAT developed a program of measures to improve understanding along with increased safety awareness among our employees. With a strong team spirit and safety culture, the company achieved this unprecedented record, and are now pushing on to 4 Million and 5 Million man hours LTI free.
On the auspicious day 16th of October, (Navratri Pooja), CR Asia, completed the acquisition of the Indian Partners shareholding in CR India.

This acquisition provides an opportunity to strengthen the bonds between the companies in the Group providing CR India with the support it needs to further expand in the Indian Market.

The Indian market provides significant opportunities for the CR Asia Group in the provision of Catalyst Handling, High Pressure Water Jetting and Decoking activities.

Also on the 16th of October the business relocated to new offices in Mumbai located at 404 Baba House, (full address details can be found on the back page). All existing CR India staff will remain employed by the company and the business will continue to operate out of the workshops in Mangalore and Jamnagar.

The staff and management of CR Asia are excited about this opportunity and the Group will provide every support to the Indian business to ensure it is a success.

The CR Asia Board of Directors and management extend their thanks to our Indian Partners for their support in building the business to what it is today.

Mark Stansfield
Group Managing Director
CR Asia Group, Bangkok

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**PROJECT UPDATE**

**Client** : CR Taiwan
**Project** : Parex Shutdown
**Scope** : Complete a full strip of the internal piping, grids and absorbent on all levels
**Manpower** : 47
**Highlight** : Working in Mailao with changeable weather conditions including typhoon
**Executed By** : CR Asia Thailand
CRAT take delivery of new Vacuum Tanker

A new 10m³ vacuum tanker has been designed and built using the latest technology and easy to clean stainless steel materials, highly resistant to acids and alkalis. The high vacuum pump is to international standards, so that maintenance and spares are standard activities. This tanker can handle liquids and semi-liquids, from sewers, septic tanks and rainwater through to acid products and refinery hydrocarbon sludge.

CRAS invest in new Lorry Crane

CR Asia Singapore has acquired a new Isuzu Lorry Crane. Equipped with an Austrian made 22 Ton Palfinger crane and with a max payload of 12,400Kgs, it will help in the effectiveness of moving and transporting the CRAS varied equipment to our job site without any delays or the hassle of engaging a third party contractor. To handle these new assets we employed a lorry crane operator Mr Ong Pang Leong. Ong brings to CRAS 17 years of experience in lorry crane handling and 19 years of experience with this related industry and 7 years as a sub-contractor attached to CR Asia.

Self-Propelled Bundle Extractor for CRAT

A new bundle puller that does not need a crane but drives around the process units by itself. The unit can pull bundles up to a weight of 35Te and up to heights of approx. 6.5m. Once the bundle is out of the shell the unit can shift the bundle over on to a special trailer and reduce the handling whilst increasing the speed of the job with less safety risks.
CR Asia Malaysia participated in the Industrial Roadshow organized by Orange Media in Bintulu in May 2012. CR Asia has supported several of these events in previous years’ and was pleased once again to sponsor the first such roadshow in East Malaysia. In fact the timing was particularly good as the event coincided with the opening of the new CRAM branch office and yard in Bintulu earlier in the same week.

In addition to the exhibition booth, CRAM also presented a paper at the seminar entitled “The Use of Water as a Tool - Engineering Solutions” which was delivered by Harry Vandermeer. The response to the seminar and also the booth was excellent with direct enquiries being received during and after the event.

This was an excellent opportunity to showcase the service capability of CRAM and in particular from a local perspective to support the industrial market in Bintulu and Borneo generally.

Ian Thompson
Group Business Development Manager
CR Asia Group, Bangkok

CR AM Celebrates Iftar

The staff and management of CR Asia Malaysia celebrated Iftar on 8th August together with a traditional dinner/ breaking fast party to mark the Holy Month of Ramadan. CRAM also took the occasion to award 10 years’ services to 8 of its personnel and conferred Safety Awards to its best employee on safety.
After many years, CRAM was recently invited to participate in the tender process for catalyst change out works for Polyethylene Malaysia Sdn Bhd (PEMSB) and was duly successful. PEMSBB awarded CRAM for blinding and de-blinding, adsorbent change out for PE-0-D-902B and PE-0-R-905B (Package A) & catalyst change out for PE-0-R-902 (Package B) in July 2012. The works were divided into 3 separate phases and the last vessel was completed in October 2012.

CRAM re-entry into PEMSBB resulted from aggressive marketing and business development efforts and not to mention prudent selection of Standardized Works & Engineering Codes (SWEC) of PETRONAS’ License by the team.

Mohd Sidek Atan
Business Unit Manager
CR Asia Malaysia

The CR Asia Group have taken a new initiative towards a more fulfilling purpose - realizing the very reality of tragedies that can occur at the worksites, and the importance of safety in preventing that from happening. The company is rolling out the CR Asia “Goal Zero” Programme.

Giving recognition that safety is not an issue that can be solved easily by penalties and corrective measures alone, the company has contracted the help of Safety@Work Consultancy to make Goal Zero achievable.
10 Year long service award for Simon……

We have taken the opportunity of our second BBQ gathering on 24th Aug 2012 to present a 10 year service award to our most experienced and knowledgeable Mechanical Supervisor, Simon Chang Keng Wah.

Simon has been in the oil & gas industry since 1983 and started working at Shell Eastern Petroleum (Pte) Ltd on Pulau Bukom as a general worker. He was in his twenties when he was gradually promoted to lead man, foreman, then as a supervisor over the years. Thereafter he worked as sub-contractor for cleaning services in columns, bundle removal, etc. which is how he first came in contact with CR Asia later joining on a freelance basis.

Simon has never ceased learning and still seeks more knowledge attending and successfully completing many courses in safety, supervision, BA training and many other activities.

All the hard work & effort of Simon were finally paid-off when Mr. Jelmer Bolt (GM of CRAS) noticed the fervor that Simon had in his work and decided to offer him a full-time permanent position in June 2002.

Simon has come a long way to receive this special 10 year service award from our company. He is a veteran in all mechanical works and CR Asia Singapore certainly appreciates his commitment and contributions over the years.

Sally Kho
Operations Coordinator
CR Asia Singapore

Huda's Special Day

CRAM Accounts Executive,
Nurul Huda Musa married Mohd Annas Hussain on 2nd June 2012 at Kg. Bukit Mentok, Kemaman, Malaysia.
Congratulations to Huda and Mohd from the management and staff at CR Asia Malaysia.
Michael Allen

A warm welcome to Michael Allan, who has joined CRAT as Tank Maintenance Manager. Mike (49 years old from Liverpool, England) will be working with Khun Sirichai and Khun Jirapat and we wish him all the best in his new position.

“I am very excited to take up this new challenge and I am pleased to have this opportunity to work with the CR Asia team”. His interests include playing the bass guitar and singing mainly rock music, quiz programmes / reading and writing music and also a keen follower of F1 motor racing.

Ahmad Jani Dollah

Ahmad Jani Dollah (AJ) joined CRAM as the new Business Development & Contracts Manager in May 2012. AJ has 27 years of experience in the onshore, offshore and marine engineering and holds a Diploma in Marine Engineering and Certificate of Competency as Marine Engineering Officer (Marine Engineer).

He has been involved for many years in plant and facilities maintenance, EPCC contracts, FPSO/ FSO operations and many other activities. Some of the reputable companies that he joined includes EM&I Maritime (UK) Ltd, Clarkson Technical Services Ltd, FPSO Ventures Sdn Bhd, Malaysian International Shipping Corporation and Sime Darby Engineering Sdn Bhd.

Anandh Shanmugam

Anandh Shanmugam joined CR Asia Singapore in April 2012 as Lifting/Safety Supervisor. He has 6 years' experience involved in working as a catalyst supervisor in various projects that included confined space and inert entry. In addition to this he is also experienced working with CNC turning machines that involves mass production of components. Anandh is married to Karthika since February 2012 and enjoys driving car /motor bikes. He says he has a good opportunity with CR Asia Singapore and would like to thank everyone, adding, “we can work together in one team”.

Steven Waldron

Hello to everyone at CRAT. My name is Steven Waldron from Aberdeen, Scotland. I am very pleased to be recruited into the CRAT team and I have quickly found that working as a team is very important to CRAT. I welcome this as I was in the British armed forces for 9 years where team work is imperative. I learned my trade in Aberdeen, which gave me the opportunity to work in many countries around the world including Norway, the Middle East, and Australia, gaining valuable experience in Petro Chemical pipeline services. My role for CRAT is as a PPSD Supervisor which is very exciting and I am looking forward to some of the challenges which will come my way.

Outside of work I have many hobbies and interests including Rugby (more watching than participating these days) Swimming and Martial Arts, I also have recently taken up Golf. My partner and I have recently moved into a property in Rayong which also gives us the pleasure to spend time with our adopted dogs. I would like to thank everyone at CRAT for their kind welcome to the company and I share with everyone employed at CRAT that safety takes precedence in everything we do.
Suriana Ali

Suriana Ali (Sue) joined CRAM as Accounts Assistant in June 2012. With eight years of working experience in accounting and records keeping, Sue is a local from Kemaman and has remarkably strengthened the Finance & Admin Department of CRAM with her vast experience in facing the challenges in the expansion of the CRAM business. The management hereby welcomes Sue to CR.

Ahmad Farouk Alabdaly

Ir. Ahmad Farouk Alabdaly joined CR Asia as a Branch Manager of the newly established Bintulu branch in East Malaysia. He is a qualified chemical engineer with 20 years industrial experience under his belt. He has overseen hundreds of turnaround maintenance projects plus a few plant construction packages as well.

Mr. Farouk is also a prominent member of the inert entry committee of NIOSH in Malaysia. He assisted in developing technical standards for working under inert space for Petronas, and developing the IE training modules for NIOSH Malaysia. Upon launching it - this became a regulatory implementation in the country.

Naqiuddin Mohd Zid

CRAM recently appointed Naqiuddin Mohd Zid (Naqi) as the new Project Engineer to support its expansion and business plan. Naqi joined CRAM Operation Department in the site management and its commercial and technical bidding activities.

He is a Bachelor of Chemical-Gas Engineering from University Technology of Malaysia and has vast experience in the technical writing for work packages both for onshore and offshore - especially in heat exchanger, air fin cooler and shutdowns works.

Philip Unggang

Philip Unggang joins CR Asia Malaysia as Admin Clerk at the new Branch Office in Bintulu. As a local from Bintulu, Philip has lived through the major developments in the area as a small town to what has now grown into the thriving industrial centre that can be seen today. With 20 years working experience in admin and accounting roles he brings a wealth of experience from various industries from banking to journalism and plantations to construction. He has also been a part-time English teacher at a local tuition centre.

Philip joins the team headed by Farouk Alabdaly to build a solid business in Bintulu for the Borneo market.

Siti Nurfarizan Mohd Zakaria

Nurfarizan (Ezan) is the new CRAM Procurement Executive. A diploma holder in Information Management from the University Technology of MARA - Ezan has three years of experience in purchasing, inventory and procurement environment. She is a former employee of Petronas Gas Berhad. Welcome to CR Group, Ezan.

Faraida Mazuki

CRAM has recruited a new Office Coordinator to organise the expanded office activities, personnel movement, organising functions and reception amongst others with the appointment of Faraida (Fyda) to the post.

Fyda attained Diploma in Hotel Management and Catering in 2009 and has worked in oil & gas companies as document controller and records keeping since then. Welcome to CR Group, Fyda.
CRAT National Safety Award and safety program

Safety Initiative Program for CR Asia Thailand

CRAT received the National Safety Award

Annual check up

External audit by SGS

Eastern safety week at Star Hotel, Rayong on 19-20 Jul 2012

Safety Incentive program at BST on August 24, 2012
Once again CRAS has organized the second BBQ gathering for this year. The main objective of this gathering was to celebrate the successful completion of our project at Shell Bukom T/A 2012, as well as the presentation of 10-years’ service award which is mentioned in a separate article.

Although the number of people attending was less than expected due to an unavoidable late change of date, the BBQ night still turned out well with lots of catching up with one another and heaps of fun, food and booze.
Swimming course training for children sponsored by CR Asia Thailand

Sawasdee Kha,

We have been very fortunate to be able to take the children every 2 weeks to The Mahidol University Faculty of Dentistry, in Bangkok. They have invited us to be part of their research development. The treatments for the children are given at a reduced cost. This enables us to take more children and to ensure they have all the dental work they need. All the Graduate Dentists who treat the children are exceptionally kind and very competent at what they do.

Most children will need to go at least 4-6 times as their teeth are not in good condition. We rotate groups to ensure all the children from The KlongToey Community Center are treated.

Recent treatments included: Root canal, fillings, preliminary moulds, cleaning and fillings. All children were also given fluoride treatment.

Many thanks for your continued support.

“Healthy Teeth, Happy Children”

Warm Regards
Cheryl Stansfield
(On behalf of KlongToey Community Center)