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Editor's Note

Greetings!

I have the pleasure of presenting to you the first edition of the Tethyan Copper Company's (TCC) newsletter, Yaqeen.

Published in both English and Urdu, the newsletter features the latest news updates and in-depth coverage of key events and initiatives related to the company's social, environmental, safety and economic development programs.

Yaqeen means 'belief' in the Urdu language. It denotes the certainty that results from continued endeavour, deep commitment and inner strength.

TCC has accomplished much since its present JV partners, Barrick Gold and Antofagasta plc began managing the Reko Diq project in 2006. As such, the name Yaqeen is symbolic of the faith that TCC and its employees have in turning the Reko Diq project into the first large scale world class copper and gold mine in Pakistan, bringing benefits to all stakeholders.

We believe in sharing our success as a world-class mining company with the people of Balochistan. We also believe that true success is always a result of mutual effort. As the TCC family grows, we will develop more effective means of keeping you informed and receiving your valuable feedback and we sincerely hope that Yaqeen will help us in this endeavour.

It is our desire and commitment to make Yaqeen a true reflection of TCC's vision of shared success. Yaqeen will be TCC's information and news sharing link with all stakeholders.

We have tried to accommodate as many reports and event updates as possible and hope to include even more interesting content in future issues.

I would like to thank the entire team at TCC that made it possible for us to bring out the first edition of Yaqeen. In coming months, we contemplate this newsletter as a dynamic platform for the communication of ideas and exchange of information.

Your constructive views and comments shall always be welcomed.

Happy reading!

Editorial Team

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Community Development

Water Pump handed over to Tehsil Nazim, Nokkundi



As the UN Millennium Development Goals fifteen year plan has passed the half-way point, mining companies are being recognized worldwide for making a significant contribution to poverty alleviation.

The Tethyan Copper Company (TCC) Community Relations team is one unit that is working closely with communities to create and implement integrated devel-

opment programs that take into account local issues, concerns and needs.

Nokkundi is a settled neighbouring area of the Reko Dig Project where there are thousands of people who do not have direct access to clean drinking water. TCC has continuously provided support to the town's Public Health Engineering Department (PHE) to make water accessible to all communities.

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Hand in hand – working for one goal

Abdul Razique Kakar, Project Geologist



Abdul Razique Kakar was born in 1971 in Quetta, Balochistan, Pakistan. He received his high school and secondary education in Quetta and became a geology graduate from Government Science College, Quetta, in 1991.

Razique continued to improve his educational attainments and completed his Masters (M.Sc.) in Geology, securing first class first position from the University of Balochistan in 1995. Based on his academic excellence, he was selected as the first geologist from the Balochistan province to work on the BHP-BDA Chagai Joint venture project. He was involved in all the phases of the Reko Diq project, starting from regional reconnaissance, exploration and drilling programs leading to the discovery of Reko Diq and several other significant porphyry copper-gold deposits in the region from 1995-1998.

Abdul Razique has been working as Project Geologist with Tethyan Copper Company Pakistan and is currently doing a Ph.D. research project on the Reko Diq porphyry copper-gold deposits, in collaboration with Mineral Deposit Research Unit (MDRU), The University of British Columbia, Canada.

Here he talks to Yaqeen about his professional development and work at Reko Diq:

Q. Where did you receive your primary education and

why did you choose Geology as your subject?

A. I received my primary education at Government High School, Killi Sheikhh Khan, Quetta in 1987 and passed my Intermediate (F.Sc.) from Government Science College, Quetta in 1989. I was really inspired by the geological setting, natural beauty and landscape of Balochistan and with the tremendous potential of natural resources in the province. That is why I decided to study geology and achieve something exceptional in my chosen career.

Q. What is Geology? Please give us a brief history of the geology of the Chagai region?

A. Geology is the study of earth and ocean sciences. In geology we study the composition, structure, physical properties, dynamics and history of earth's materials and the processes involved in giving the earth its shape. The Chagai belt in Balochistan developed some 70 million years ago as a result of successive tectonic events when the Arabian oceanic plate subducted underneath the Eurasian continental plate near Makran region. The Chagai magmatic arc is represented by a series of plutonic, volcanic and sedimentary rocks. The significant porphyry copper-gold deposits in Chagai and Reko Diq region are associated with multiple episodes of magmatic events which occurred during the Middle-Late-Miocene age of 24-10 million years.

Q. What is the scope of geology in Balochistan?

A. I think we are one of the most fortunate nations. Pakistan and Balochistan province, in particular, is located in a unique geo-tectonic setting with substantial potential of economic mineral deposits. Based on the available research so far, the Sulaiman range in Balochistan has tremendous potential for oil and gas reservoirs, fossil fuels and other metallic and industrial ore and minerals. The exploration and mining of economic copper-gold and iron ore deposits in the Chagai magmatic arc and the lead-zinc deposits in Khuzdar region could have a significant impact on the overall socio-economic environment in Balochistan. The development of the Reko Diq porphyry copper-gold project will lay down the foundation of the mining industry

in the province, boost the economy, encourage other small enterprises and attract more foreign investment in the region. Most importantly, there will be a strong impact on human resource development as a result of the development activities and close integration between industry, universities and research institutions to produce highly skilled professionals.

Q. Why has so little attention and importance been given to this sector so far?

A. I think the main reason is the lack of knowledge and awareness. Lack of infrastructure in remote areas where economic mineral deposits are situated has also contributed to the negligence of this sector. Apart from a small scale mining operation at Saindak and some local scale mining of onyx (marble), chromite, coal, etc., there is

literally no world-class mining operation in the country. Historically, a great deal of attention is given to the petroleum industry and agriculture sector while the importance of mineral exploration and mining sector has been ignored.

Q.What are your current activities?

A. I am working on a Ph.D. research project on Reko Diq in collaboration with the University of British Columbia, Canada. The main objective of this project is to study the geological setting and the magmatic and hydrothermal evolution of Reko Diq and develop a 4-D genetic porphyry model leading to the exploration and discovery of similar deposits throughout Chagai and Tethyan metallogenic belt.

Q. Can you tell us something about the mineral resources of Chagai belt

that you are currently doing research on for your Ph.D.

A. The Chagai magmatic arc is represented by a series of volcano-magmatic events introducing a variety of metallic and industrial ore minerals in the District. The research studies indicate that porphyry copper-gold deposits at Saindak and Reko Diq are associated with a unique magmatic event favourable for further exploration in the Kirtaka, Ting Dariguan, Machi, Ziarati and Dasht-e-Kain areas. Significant iron ore deposits are located in Pachin Koh, Chilgazi and southern Mashki Chah areas. The Koh Sultan volcanic complex has the potential of economic grade copper, gold, sulphur and pumice deposits. Onyx (marble) can be further explored around the existing quarries, particularly in the north, along the border with Afghanistan.



Sports Arena

Sports at TCC

TCC employees are encouraged to participate in sports activities with the objective of building team spirit and realizing their full potential. Such activities are also meant to give employees a better sense of wholesome well being. It has been seen in recent activities organized at the Reko Diq Project site that, apart from the obvious health benefits of team sports, TCC employees also enjoy the opportunity to get to know new people, make friends and have a chance to interact with their colleagues outside the work environment. This serves to refresh them and they return to their jobs with renewed enthusiasm. After the conclusion of indoor games competitions, a cricket tournament was organized. The TCC administration and employees played a vital role in organizing the event. The fol-



Jack McMahon with the winning team.



... and the runner-up team.



Winning Captain Mohammad Tariq receiving the Trophy from Site Manager Jack McMahon.



Runner-up Captain Mohammad Zahir receives Trophy.

lowing four teams participated in the tournament:

1. TCC Tigers
2. Chagai Leopards
3. Reko Diq Fighters
4. Mining Stars

The final match of the cricket tournament was played between TCC Tigers and Chagai Leopards, which the TCC Tigers won. Both the Man of the Match and Man of the Tournament awards were won

by Mohammad Tariq of TCC Tigers. The Chief Guest at the Final was Reko Diq Project Site Manager Jack McMahon.

Ambassador visits Reko Diq Project site

Pakistan's Ambassador to Chile, Mr. Burhan ul Islam visited the Reko Diq Project Site 5. He was accompanied by Peter Jezek, Chief Executive Officer TCC and Col. Sher Khan, Director Public Affairs and Security. The guests were received by Site Manager Jack McMahon at Reko Diq air strip.



Nazeer Baloch presenting a gift to Pakistan Ambassador to Chile, Mr. Burhan ul Islam, on behalf of TCC

Ambassador Burhan ul Islam held an informal meeting with the TCC employees. He revealed that efforts were being made to bring more foreign companies to invest in Pakistan, especially in Balochistan and added that the focus was on how the investments should benefit the local population.

The ambassador held out an assurance that he would discuss the possibility of establishing a mining university with the Government of Pakistan. He felt that keeping in view the numerous opportunities available in Balochistan, local people could be better prepared to work in mining projects through such an initiative.

Employees present on the occasion said that TCC was the best company to work on this project due to the implementation of Health and Safety policies for employees, employee benefits and the international standards work environment. TCC also focuses on community development which is highly beneficial for the local community.

The Ambassador also took a round of Humai village accompanied by the TCC Site Manager and Community Relations Team and met local community stakeholders. He visited the community clinic, school and tailoring centre for local women.

TCC Officers Association formed

An Association of TCC officers has been formed. It comprises of the following office bearers:

- | | |
|--------------------|---------------------------|
| • Hafeez ur Rehman | Chief Organizer |
| • Naeem Ahmed | Deputy Organizer |
| • Mukhtar Ahmed | Coordinator |
| • Abdul Malik | Member, Working Committee |
| • Abdul Bashir | Member, Working Committee |

The following are members of the Association's Constitution Committee:

- | | |
|---------------|----------------|
| • Rehmatullah | • Sajid Kiani |
| • Safar Khan | • Sadiq Buzdar |

Registration of the association is in process.

Water Pump handed over



From page 1



Pledging continued support to the PHE for clean drinking water, Jack McMahon, Reko Diq Project Site Manager, handed over a water pump to Tehsil Nazim Nokkundi Sardar Noor Bakhsh Sherzai in the presence of such other notables of the city as Mir Barkat Reki, Raza Ali, Ghulam Jailani, Gurmukh Dass and Haji Yar Muhammad.

The electric generator and water pump will give easy access to potable water to the residents of Nok Chah Village.

Speaking at the inauguration ceremony, Jack McMahon

said that although TCC is still in the feasibility phase of the Reko Diq Project, it would continue supporting neighbouring populations in community development work.

Maulvi Muhammad Ibraheem, the community leader, thanked Jack McMahon, the CR Team and the company's higher management for taking interest in the needs of the community and fulfilling their commitment.

The guests appreciated the strong support provided by TCC and expressed their heartfelt gratitude.



Training for Tomorrow

Tethyan Copper Company (TCC) has completed training of the latest batch of employees at the Technical Training Center, Quetta, Balochistan. The batch consists of 19 TCC employees who are acquiring practical training in various disciplines. These include mechanical/electrical education, IT, welding, plumbing and civil drafting. Certificates will be awarded to the employees on completion of the three-month courses. The training courses are a part of a broad-based training and capacity building program that TCC organizes for its employees on a regular basis.

Earlier this year, a batch of TCC employees successfully completed training courses at DESCON Training Institute, Lahore. On-site



training programs are also organized at the Reko Diq project site regularly. The purpose is to enhance the skills and capacity of employees and to ensure that they have the best possible set of skills.

In line with its commitment to assist the development of the local work force, TCC also supported four literacy centers in Nokkundi. These centers provided basic literacy and life-skills training to 120 local residents. This six-month training project was implemented in association with a local NG called Society for Community Support for Primary Education, Balochistan (SCSPEB).

Currently, TCC employs more than 83% of the local population at Reko Diq. TCC is committed to ensuring that the residents of the Chagai District of Balochistan are given first priority for positions during the planning, construction, mining and processing facilities at Reko Diq.

Presentation of 2009 Safety Awards: May, 2010

A Ceremony was organized at Reko Diq camp site to present 2009 Safety Awards.

Umer Gul welder from the Maintenance Department was presented award Safety Champion 2009 for demonstrating leadership and personal commitment to safety and health in his workplace.

Reko Diq Site has also earned the Award of Merit for achieving Zero Lost Time incidents during 2009. The site has demonstrated Excellent Safety Performance and will strive to continually improve it.



Reko Diq Project Senior Operations Manager Jack McMahon presenting Safety Award to Umer Gul, mechanical shop welder as RD's 2009 Safety Champion (from left to right) Jackson Samson Mechanical shop HOD; Jack McMahon RD Project, Senior, Operations Manager; Umer Gul, Safety Champion Award recipient; Mark Griffiths, Site Operations Manager



Employees who attended the Presentation of 2009 Safety Awards ceremony at # 2 Core Shed.



Site HODs with Adrian Carrasco Site HSE Manager as Jack McMahon presents him the Chief Operating Officer's Award of Merit For Reko Diq Project Excellent Safety Performance during 2009 – Zero Lost Time Incidents in 2009. From left to right: Dr. Arif Sattar, Site Clinic Doctor; Jorge Artal, Geology Department; Naeem Ahmed, Human Resources; Mohammad Ishaque, Admin Department; Farooq Ali, IT Department; Hayat Khan, Admin Department; Jack McMahon, Senior Operations Manager; Adrian Carrasco, HSE Department; Mark Griffiths, Site Operations Manager; Hafeez Ur-Rehman, Hydrogeology; Jackson Samson, Maintenance Department



Site employees holding their 2009 Safety Awards along with Safety Champion 2009 Umer Gul

Safety First at TCCP

Safety Slogans

- Be safe while using safety tools.
- Safety is not only for you but also for your loved ones.
- Safety rules are your best tools.
- Safety is the motto of TCC.
- Safety is our priority.

LOCK OUT/

TAG OUT

“Lock out/Tag out (LOTO)” refers to specific practices and procedures that are practiced to safeguard employees from the unexpected energization or start up of machinery and equipment, or the release of

hazardous emissions during service or maintenance activities.

This requires a designated individual to turn off and disconnect the machinery or equipment from its energy source(s) before performing service or maintenance.

The authorized employee(s) should either lock or tag the energy isolating device(s) to prevent the release of hazardous emissions and take steps to verify that the energy has been isolated effectively.



...can cost you in lives and dollars

Importance of HSE

An interview with Mukhtar Ahmad,
Training Officer, HSE Department

**Q. Tell us about yourself?
What is your work
experience?**

A. I work as Training Officer with the HSE department at TCC Reko Diq. I have done my Masters and M.Phil in Chemistry from the University of Balochistan, Quetta. I belong to the Dalbandin district, headquarters of District Chagai. Before joining Reko Diq, I worked with a mining company for five years. I have worked in different positions, such as Safety Trainer and in the Chemistry Lab where I did analysis of Copper, Gold and Silver. I have the honour of being the only M.Phil in Chemistry from District Chagai.

**Q. What is the HSE
Department?**

A. Any company that

believes in reducing negative impact on health, safety and environment has an HSE department. It plans positive and applicable activities to create a healthy environment in the workplace. The HSE department conveys this concept to other departments and motivates them in ensuring the feasibility of a healthy workplace.

**Q. What have you done to
improve the knowledge of
TCC workers in the last
year?**

A. From the beginning, the HSE department provides training to all members of the TCC family on Health and Safety in order to enable them to protect themselves from future risks and make themselves valuable assets of TCC.



**Q. Is there any special
training for the employees
to protect themselves and
others from any kind of risk?**

A. Yes, employees are provided Field Level Risk Assessment (FLRA) and Courageous Leadership training. I am pleased to say that due to such training, workers do their work safely and without any fear. Workers have, in fact, identified several risk factors after practicing FLRA.

**Q. Can you tell us anything
special about such
training?**

A. TCC HSE has had the honour of conducting the training in English and for those nationals who do not understand English, we have conducted training in Balochi and Urdu as well.

**Q. What is the vision of
TCC HSE?**

A. 'Every person goes home safe and healthy every day'.

Social Responsibility

Personal Health and Hygiene Session for Humai School Students

Personal hygiene is the first step towards good grooming and good health. Elementary cleanliness is common knowledge and is a basic requirement for a healthy family and the community at large. Based on this principle, the TCC Community Relations Team organized a session for the school students of Humai School in TCC Project area to educate them on the following:

- Personal Hygiene
- Domestic Hygiene

- Food and water Hygiene
- Environmental Hygiene
- Use of Latrine (Hygiene Practices)

The sessions were successfully delivered with students from classes 1 to 5 participating in the good hygiene sessions and showing their eager interest and positive response. The School Teacher Mohammad Tahir and two Lady Health Workers (LHWs) facilitated the sessions. As part of the basic health

education plan, the LHWs will continue to conduct health and hygiene sessions on a weekly basis at Humai

School and will also conduct sessions in Humai village for women.

