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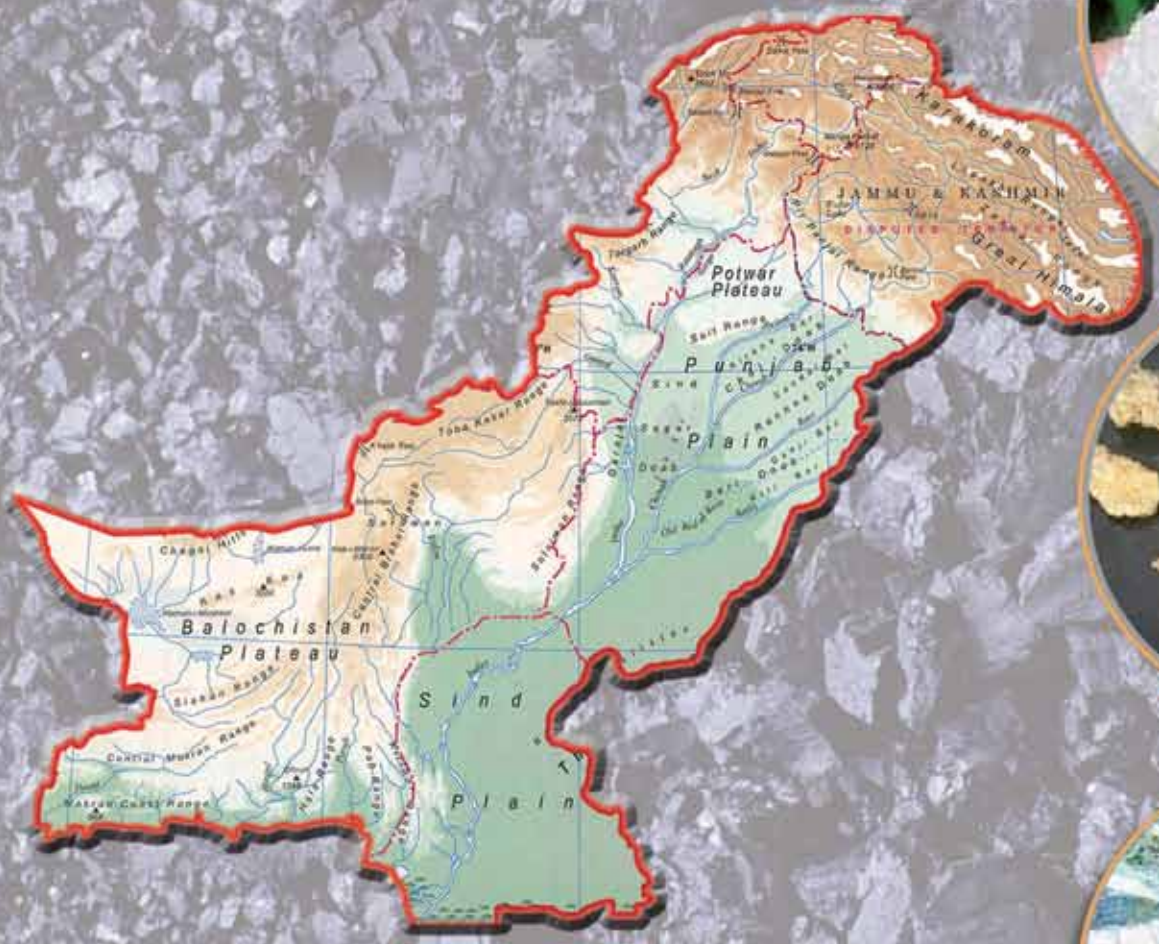

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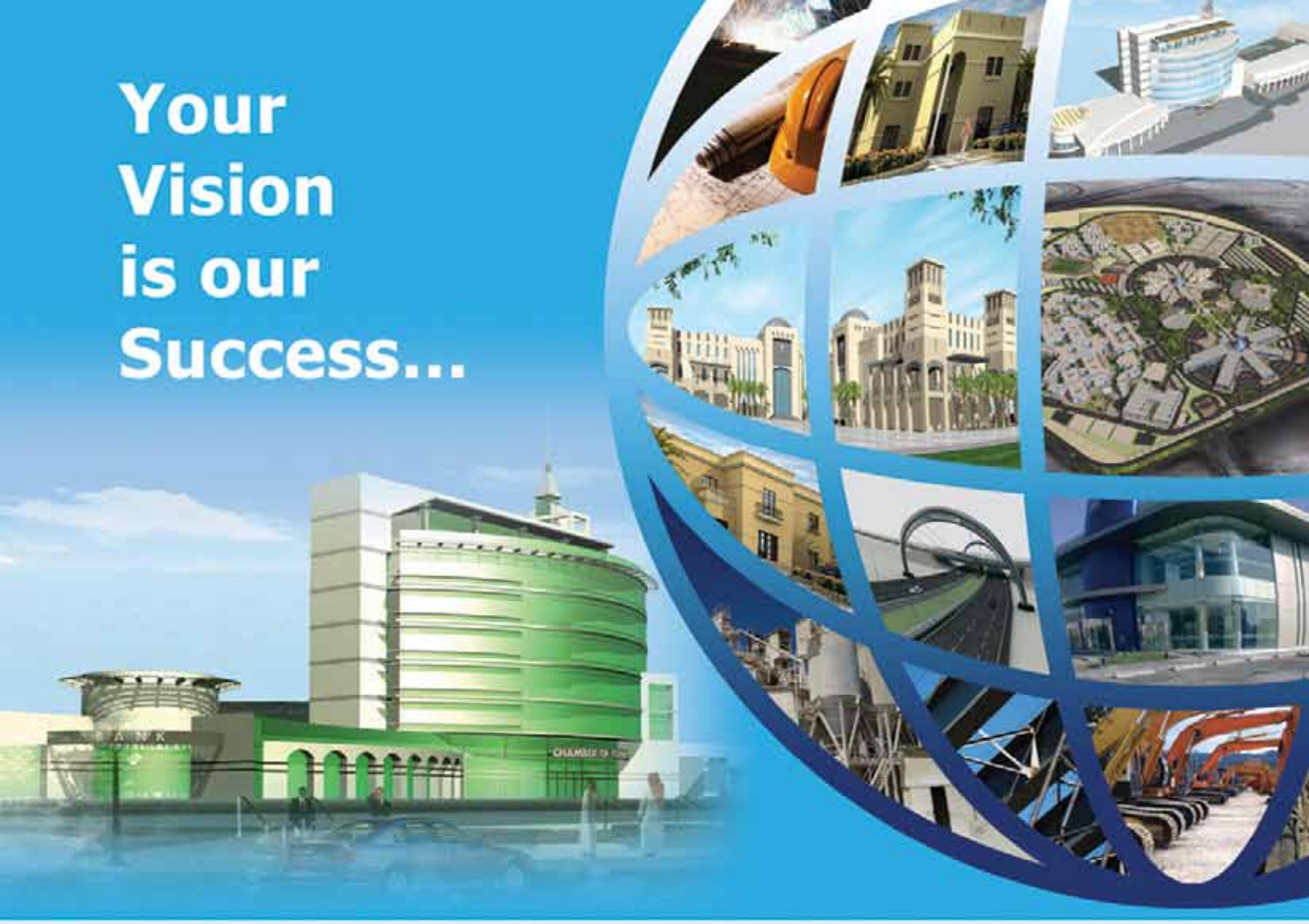

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IEP-SAC Journal is published yearly by the Institution of Engineers Pakistan, Saudi Arabian Center (IEP-SAC), Riyadh, and distributed to the engineering community in Saudi Arabia. To promote discussion of issues in the field of engineering and ensure coverage of all responsible points of view, conflicting opinions and views may appear, however, IEP-SAC cannot accept any liability for such views nor for any errors or omissions.

Designed By: Rana Omer Farooq (Cell: 055 172 1065)
Email: abuwasi@gmail.com

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IEP MEMBERSHIP FORM

PARADIGM SHIFT

Dear Engineers

السلام علیکم و رحمۃ اللہ و برکاتہ

This is the third consecutive issue of our annual IEP-SAC Journal since 2009 when we led a paradigm shift towards a colorful, professionally-designed, and pleasant—yet as sober as a professional organization's premiere publication should look like—journal that along with the state-of-the-art printing and overall improved contents has been felt as a breath of fresh air by the community. The feedback we received from our fellow engineers was and continues to be encouraging. The credit goes to our Editorial Board who has introduced a step uplift to the magazine.

The Journal 2011's cover theme is on mineral resources of our beloved motherland which has been blessed with tremendous resources; unfortunately, however, these resources have not been tapped to bring about a positive change in the lives of common people. This theme has been worked out with great care and nicety of detail in the inside pages in a series of articles about minerals and mining in Pakistan. These articles not only provide knowledge about this usually untouched field but also lead us to think why despite having great potential of men and material our common people continue to starve with about a dollar per day income whereas a handful of elite continues to grab most wealth.

In addition to these theme papers, the Journal has articles, short or long, on wide ranging subjects such as disaster management, maintenance management, power generation, someone you should know, and fillers which not only include stimulating information on various subjects of engineers' interest, but also include notable quotes, puzzles, quizzes, and the like. The General Secretary's Report precedes all these articles and gives an all-round summary of our activities that we pursue in light of IEP-SAC objects and purposes.

Last, but not the least, is our regular feature, the Directory of Pakistani Engineers Working in Saudi Arabia broken down by various engineering specialties. While the number of entries has been on the rise, there is a need that our young folks join the rank and file as there has been infiltration of hundreds if not thousands of young Pakistani engineers in Saudi Arabia when the Kingdom advanced to unprecedented developments in telecommunication engineering, information technology, computer engineering and other fields. With the promulgation of our by-laws in this year, this directory will be referred to as the Roll of the IEP-SAC, therefore, we would like more and more Pakistani engineers register with us and enjoy the benefits of networking, professional development, and social get-togethers.

Finally, I extend my accolade to our council members for their dedication and commitment towards the IEP-SAC cause. Special mention is due to our General Secretary who has worked diligently and tirelessly throughout the year and provided leadership at times of difficulty.

And the paradigm continues to shift towards the better…

Engr S M Jaleel Hasan, Chairman

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03 Mary 2011

On the occasion of organizing technical seminars by the Institution of Engineers Pakistan, Saudi Arabian Centre (IEP-SAC), I wish to congratulate the organizers for this initiative. I am confident that the seminars would provide excellent opportunities for the participants to exchange their views on the important topics.

Since the establishment of the Institution of Engineers Pakistan, the Embassy of Pakistan has always felt happy to associate itself with the Institution's activities. The Institution has not only been instrumental in exchanging information on matters of import relating to technology but also in intensifying people-to-people contacts.

It is no denying the fact that technology forms the bedrock of development for any country in the world in these modern times. Fast induction of modern technology and adaptation to changing techniques both in agriculture and industry are indispensable conditions for progress. Pakistan is in dire need of modern technical know-how and technology in all areas of production. IEP-SAC can contribute meaningfully through deliberations on various technologies that are cost-effective and ensure high productivity while at the same time ensuring sustainability and preservation of environmental balance and the eco system. It can also contribute in the uplift of the economy of Pakistan through its contacts with potential investors abroad to encourage investments into various sectors. The investment policies that the present democratic government has laid down for FDI in various sectors are investor-friendly, ensuring simplest bureaucratic procedures and protection of investment. Saudi investors can make good profits by investing into Pakistan's agriculture and energy sectors in particular.

The philanthropic activities that the Institution has undertaken during the difficult times that our beloved country has faced in the past especially during the earthquake of 2005 and devastating floods of 2010 and helping the needy compatriots in the Kingdom deserve commendation. In these efforts, the Embassy of Pakistan in Riyadh and the Consulate General in Jeddah have extended their fullest cooperation and will be happy to do so in future as well.

I once again thank the office-bearers of IEP-SAC and the organizers of the seminar for their enterprise and wish the seminars and IEP-SAC success.

A. M.

(Ayaz Muhammad Khan)
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From the General Secretary

It is my privilege and a source of honour and satisfaction to present the Annual Report of IEP-SAC encompassing the events and activities that took place during the year 2010-2011.

Gentlemen,

Revelation of the Holy Qur'an started with the word "Iqra", means "read". Further, our Prophet (peace be upon him) proclaimed that,

"الكلمة الحكمة ضالة المؤمن حيثما وجدها فهو أحق بها"۔(سنن ابن ماجة)

Which means, "Any thing of wisdom is the lost wealth of the believer, wherever he finds he deserves to it" with these two quotations, I need not emphasize the importance of knowledge and education.

One of the most persistent themes in the social sciences, history, and humanities is the impact of technology and technological change on all aspects of social life. Major changes in the human life have been associated with major technological changes such as "food producing revolution", the "urban revolution," and the "industrial revolution." However, the physical capital that was essential for development in the 20th century will no longer be sufficient in the 21st century. Instead, the human intellectual capital will determine success or failure of nations in this century. In addition to basic health care, the key input for the development of human capital is quality education at primary, secondary and higher levels with special emphasis on science, technology and engineering.

In this context, IEP-SAC has been striving to provide exceptional opportunities for engineering education and professional growth. Our scholarship program for the needy students in the public sector universities of Pakistan, technical seminars, publication of technical papers and interaction with various technical professional organizations, and technical visits have been some of the main targets which have distinguished IEP-SAC as a vibrant forum for Pakistani engineers, architects and town planners working in KSA.

IEP-SAC relies on the support, generosity and volunteer service of our members. Many of our colleagues are tireless workers who have helped make IEP-SAC a dynamic and growing entity.

A brief report of technical and social activities during the year 2010-2011 is as follows:

Seminars and Annual Convention

Our Seminars are designed to enhance the professional knowledge and foster awareness of new techniques to meet new challenges in planning, designing, and execution of extensive infrastructure.

Last year, IEP-SAC organized its annual convention and Seminar on May 27, 2010. The exposition highlighted the latest products and services of interest to various field of engineering. The Seminar entitled, "Future of Rail in Saudi Arabia" was presented by Dr Rumaih Al-Rumaih, the CEO Operations in Saudi Railway Company (SAR). The presentation covered extensive development details in the field of railway infrastructure which would play a vital role in KSA's economic and social progress and development. Presentation was applauded by the audience.

A mid-term Seminar was organized on December 02, 2010 on the topic, "Pakistan's Energy Issues, Cchallenges and Solutions." Presentation was made by Engr Akhtar Ali, a prominent engineer in Pakistan and author of several books on the same subject. The presentation was well received by the audience.

Annual Magazine

On the occasion of Annual Seminar, IEP-SAC Journal featuring technical papers and Directory of Pakistani Engineers Working in KSA was published, which is not only useful source of information for engineers but also beneficial

to other organizations. I am confident you will appreciate the getup and contents of our new Journal for 2011-2012. Thanks to the publication committee and its convener for its valuable contribution.

Scholarships

By the grace of Al-mighty Allah, IEP-SAC scholarship program is attaining a respectable altitude and appreciation. It would be worth mentioning that our scholarship program is primarily funded through individual donations and sponsorships. During the 2010-2011 session, IEP-SAC provided 88 scholarships to the needy students but academically on merit in eleven public universities and colleges in all provinces of Pakistan and Azad Kashmir. Members of the scholarship committee are working round the year for follow-up and implementation of our program for which they deserve all praise and thanks.

Family Picnic

Our Annual Family Picnic is a largely attended social event which was organized on February 27, 2011. More than 400 engineers including their family members enjoyed full day in a relaxing and entertaining environment. Indoor and outdoor games for children, men and women kept them busy and motivated. Our literary program is always a source of wisdom and knowledge, besides entertainment. Food and other facilities were excellent. Finally the prize distribution and draw Raffle gifts distribution kept all the guests and game participants enthusiastic and motivated. Full day program was very well organized and ended successfully.

IEP-SAC always endeavors to provide more pleasing and rewarding experience to our engineering community. I wish to extent my thanks to all council members in general and to our Social Activities and Catering committees in particular for organizing this successful event.

Awards and Certificates

IEP-SAC Special Awards were presented to the co-sponsors in order to recognize their extraordinary contribution to the growth and prosperity of our institution and thereby facilitating our scholarship program.

Special certificates of appreciation were presented to the authors of technical papers published in the previous year's IEP-SAC Journal. This certificate is an embodiment of the volunteer spirit and recognizes the valuable contribution to IEP-SAC Journal.

Special certificates were also presented to all attendees for the commitment and dedication to the engineering profession.

IEP-SAC Web Site

It is a matter of great satisfaction that IEP-SAC web-site is functional and you are invited to visit it: www.iep-sa.org. You will find much useful information, updated Directory of Engineers in KSA, IEP-SAC Journals of past years, previously published papers and many more items of interest. I would like to extend our deep appreciation to the concerned committee for its efforts and contribution.

Activities of Sub-Centers

During the same period, two sub-centers of IEP-SAC, one in Eastern region (Dammam) and the other in Western region (Jeddah), remained functional and busy with various technical and professional activities. A brief report of their activities is included in the following pages.

Future Planning

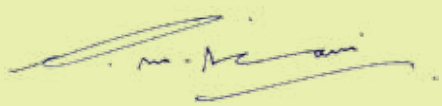
Among our technical objectives for the coming years, we intend to start a Technical Professional Education program based on Webcast/Webinar series. A feasibility report will soon be prepared on this proposal.

Gratitude

IEP-SAC expresses its gratitude to the Custodian of Two Holy Mosques, King Abdullah Bin Abdulaziz and the Government of the Kingdom of Saudi Arabia for their hospitality and providing Pakistani Engineers opportunities to contribute their wisdom and professional expertise in designing and building mega projects in KSA.

I am thankful to our council members for their tireless efforts in making our program a real success. Our sincere thanks to HE the Ambassador of Pakistan and Pakistani Embassy for their continued patronage of and cooperation for IEP-SAC cause.

Finally, I wish to extend my deep appreciation and thanks to the engineering community in KSA, sponsors, advertisers, press and media personnels for their cooperation.



Engr S M H Kirmani

AWARDS AND SCHOLARSHIPS COMMITTEE

لَيْسَ الْبِرَّ اَنْ تُوَلُّوْا وُجُوْهَكُمْ قِبَلَ الْمَشْرِقِ وَالْمَغْرِبِ وَلٰكِنَّ الْبِرَّ مَنْ اٰمَنَ بِاللّٰهِ وَالْيَوْمِ الْاٰخِرِ وَالْمَلٰٓئِكَةِ وَالْكِتٰبِ وَ
النَّبِيّٖنَ ۚ وَاٰتَى الْمَالَ عَلٰى حُبِّهٖ ذَوِي الْقُرْبٰى وَالْيَتٰمٰى وَالْمَسٰكِيْنَ وَابْنَ السَّبِيْلِ ۙ وَالسَّآئِلِيْنَ وَفِي الرِّقَابِ ۚ .... ﴿۱۷۷﴾

اِنْ تُبْدُوا الصَّدَقٰتِ فَنِعِمَّا هِيَ ۚ وَاِنْ تُخْفُوْهَا وَتُؤْتُوْهَا الْفُقَرَآءَ فَهُوَ خَيْرٌ لَّكُمْ ۭ وَيُكَفِّرُ عَنْكُمْ مِّنْ سَيِّاٰتِكُمْ ۭ وَاللّٰهُ
بِمَا تَعْمَلُوْنَ خَبِيْرٌ ﴿۲۷۱﴾

"But Al-Birr (righteousness, piety) is the quality of one who believes in Allah, and the Last Day, and the Angels, and the Book, and the Prophets and distributes his wealth, in spite of love for it, to the kinsfolk, and to the orphans, and to the needy, and to the wayfarer, and to those who ask, and to the ransom of prisoners." (Al-Baqarah-177)

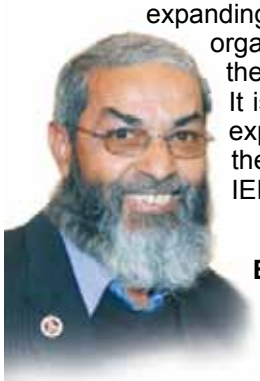
" If you disclose your (acts of) charity, it is well, but if you conceal it, and give it those (really) in need, that is better for you; it will remove from you some of your (stains of) sins and Allah is well acquainted with what you do." (Al-Baqarah-271)

By the grace of Allah the Almighty, the IEP-SAC scholarship program for needy and academically sound students in the Engineering Universities and Colleges of Pakistan was launched 15 years ago in the year 1996. With the joint efforts of IEP-SAC Local Council members, it has been expanding ever since and presently a number of students from the listed below 11 public-sector universities and colleges are being benefited from this program.

1. University of Engineering and Technology, Lahore
2. University of Engineering and Technology, Taxila
3. University College of Engineering and Technology (Baha'uddin Zakariya University), Multan
4. Institute of Chemical Engineering and Technology (University of the Punjab), Lahore
5. Dawood College of Engineering and Technology, Karachi
6. NED University of Engineering and Technology, Karachi
7. Mehran University of Engineering and Technology, Jamshoro
8. Quaid-e-Awam University of Engineering Sciences and Technology, Nawabshah
9. NWFP University of Engineering and Technology, Peshawar
10. Balochistan University of Engineering and Technology, Khuzdar
11. Mirpur University of Science and Technology (Must), Mirpur (AJ&K)

This scholarship program serves all the four provinces of the Islamic Republic of Pakistan and the State of Azad Jammu and Kashmir. The rules and regulations, selection criteria and application forms can be accessed and printed from IEP-SAC website (http:/www.iep-sa.org). By the blessings of Allah the Almighty, 14 batches have been launched so far, benefiting 216 meritorious/needy students (166 boys, 32 girls) from this scholarship program who have been serving the humanity and our homeland after graduation.

The continuity of IEP-SAC scholarship program is not only maintained during last 15 years, but it has also been expanding gradually with the help of financial contributions from various philanthropists, individuals, and organizations in Saudi Arabia. I take the opportunity to offer the readers of these lines in general and the Pakistani community and engineers in particular to join hands with us in this noble and just cause. It is a great service to the humanity in Pakistan. Let us put our maximum efforts in contributing and expanding the scholarship program to the needy engineering students. Your suggestions to improve the program further will be most welcomed. Please do not hesitate to contact any of the members of IEP-SAC Awards and Scholarships Committee or Local Council for any suggestion or information.



Engr Shaikh Akhtar Hussain, Convener
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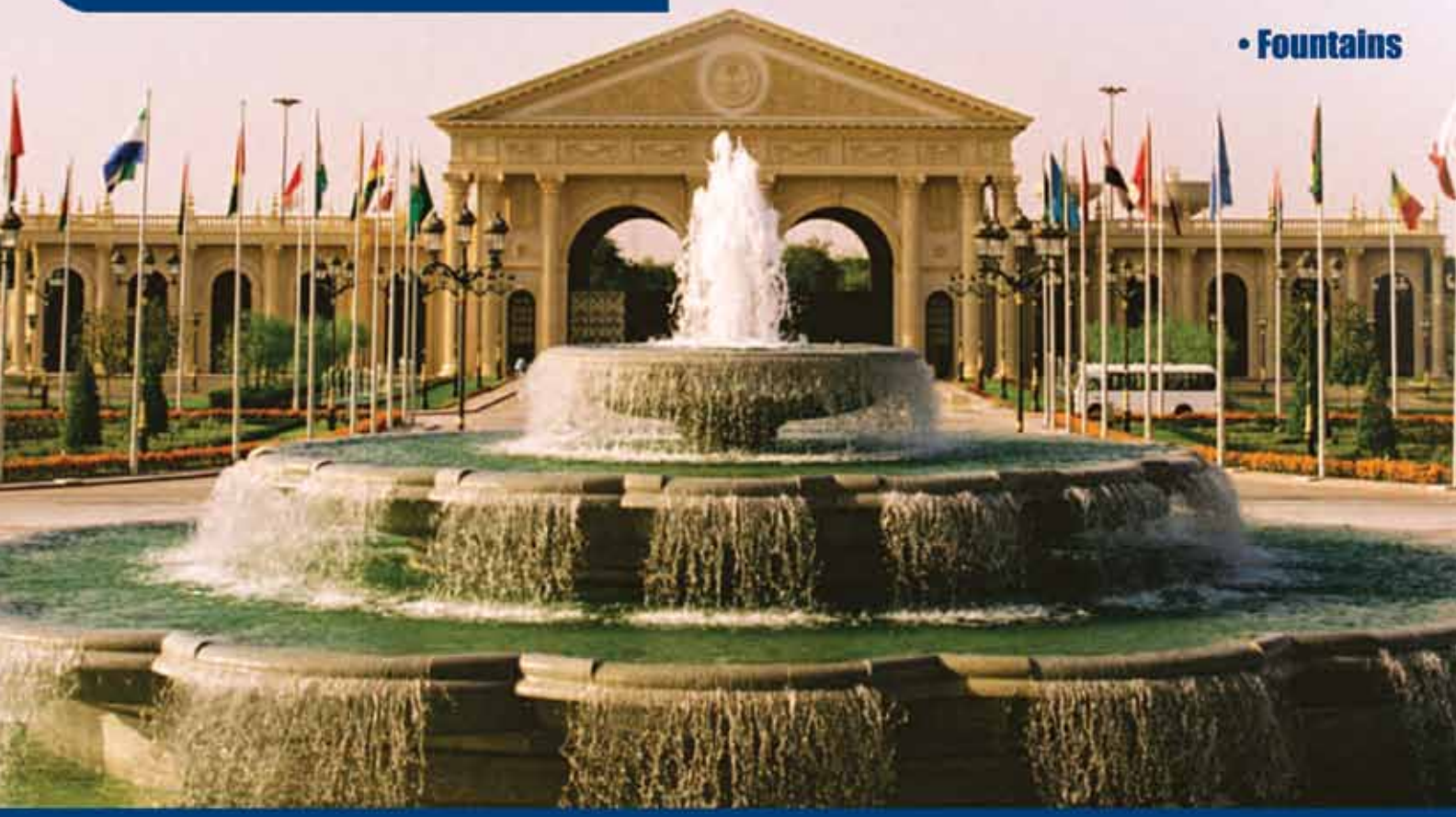

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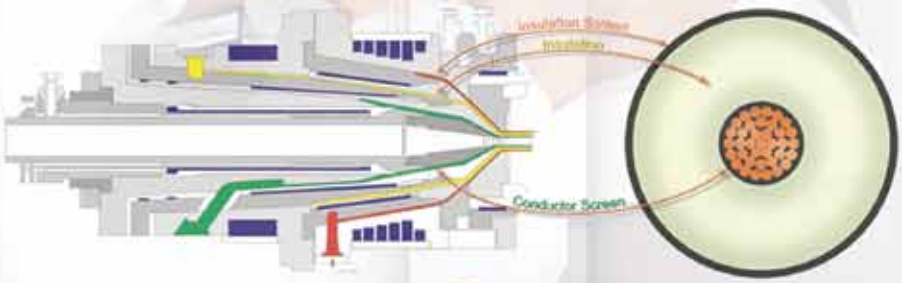

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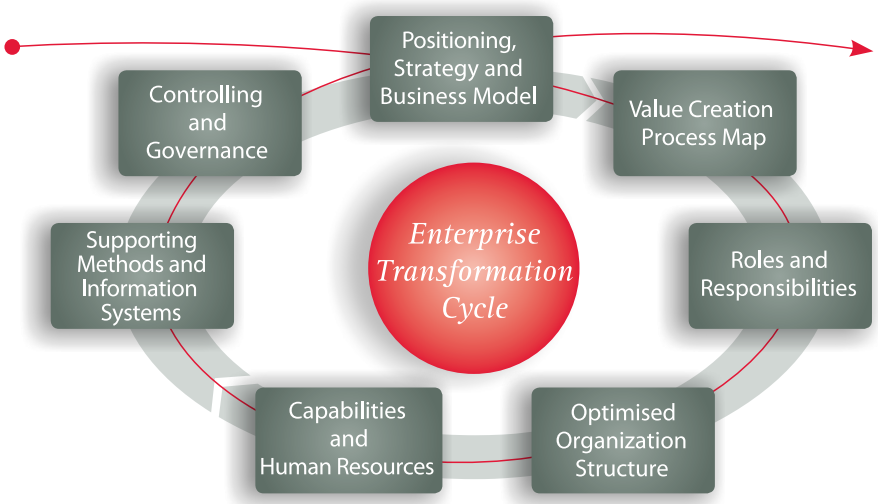

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SCENES FROM IEP–SAC **Activities**

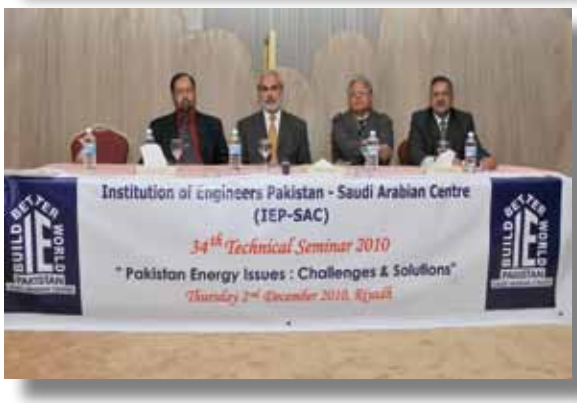
CENTRAL REGION

33rd IEP–SAC Technical Seminar, "The Future of Rail in Saudi Arabia", 27 May 2010, Prince Salman Social Center, Riyadh

SCENES FROM IEP–SAC **Activities**

CENTRAL REGION

34th IEP–SAC Technical Seminar, "Pakistan Energy Issues: Challanges and Solutions", 02 December 2010, Al–Mutlaq Hotel, Riyadh



SCENES FROM IEP–SAC **Activities**

CENTRAL REGION

Family Picnic, 27 February 2011, Istraha Al–Rushd, Riyadh















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FROM EASTERN REGION

By the grace of Almighty Allah, another year has passed and the Institution of Engineers Pakistan, Saudi Arabian Center, Eastern Region (IEP-SAC-EP) continues to pursue its objectives by organizing techno-social activities, meetings and primarily exchanging creative/innovative technical knowledge among engineers from all disciplines on multi-national ground during 2010/2011.

This year, IEP-SAC-EP took a step towards enhancing the awareness of alternative energy resources. “Solar Energy: An Option Beyond Fossil Fuel” was the topic in the latest seminar organized by IEP-SAC-EP. Engr M Tahir Chaudhry, Senior Manager Sales for Tenesol, Abu Dhabi, a French photovoltaic manufacturer and systems operator, was the keynote speaker. Engr Ahmed A Al-Dubaikhi, Director Distribution and Customer Services, Saudi Electric Company, graced the occasion as the Chief Guest at Dhahran International Hotel, Al-Khobar. The seminar was attended by a large number of engineers, researchers, academics and executives of various nationalities from the Eastern Region including Jubail, Ras Tanura, and Hofuf, as well as from the Central Region including Riyadh and Qaseem.

The speaker highlighted a crucial feature of the solar energy that if only 1% of the total available solar energy were tapped, it would be more than sufficient to fulfill the entire world’s current energy demand. Engr Chaudhry went on to emphasize that Saudi Arabia could be the largest producer of power by utilizing solar energy as it has been blessed with abundant sun light. He pointed out that the high cost of solar power which was a stumbling block in its usage on a greater scale was slowly fading away due to continuing research and development efforts. He added that it is one of the cleanest energy resources and requires very low maintenance; however, low efficiency and unavailability during cloudy weather were some of the disadvantages.

The event was sponsored by Tuwairqi Holding Company, Saudi Arabia. Engr Tahir Barlas of Tuwairqi Holding Company gave a presentation about its subsidiary: TSML Engineering, Pakistan. He explained the background of TSMLE and highlighted the company’s engineering services in Pakistan. He stated that their vision was to be a platform for the promotion of engineering talent in Pakistan and to be ultimately recognized as a center of excellence in engineering services. The event was widely covered in local and Pakistani media.

In a bid to foster coordination and cooperation with similar professional or social institutions in Saudi Arabia so as to advance cohesion within the engineers community, the IEP-SAC Eastern Region proactively held meetings with the Saudi Council of Engineers, Dammam office, Arab News office and the Secretary General of the Sharqia Chamber, Mr Abdul Rehman A Al-Wabel. Likewise, the Eastern Region organized visits to Al-Ittefaq Steel Products, Faisal Steel Products and Al-Tuwairqi Heavy Industries in the 2nd Industrial Estate, Dammam. The IEP-SAC-EP delegations were well received and avenues of creating, promoting and stimulating interest in the advancement of the science and practice of the profession of engineering were discussed.

By the same token, IEP-SAC-EP attended an event organized by the Jordanian Engineers Association (JEA), where a presentation was given briefing the activities and role of IEP-SAC in the Kingdom of Saudi Arabia.

The Eastern Region proudly continues to make significant contribution to the IEP-SAC Scholarships and advertisements campaign. In addition, special scholarships have been given to a son of a deceased engineer who was working in KSA and to some other students also.

Lastly, IEP-SAC-EP wishes to express its gratitude to the Kingdom of Saudi Arabia for its valuable and continued hospitality to the Pakistani engineering community. We appreciate and thank our valued sponsors for helping us progress towards our goals. IEP-SAC-EP Council Members deserve special mention for their dedicated volunteer work carried out tirelessly with enthusiasm and commitment without which our widespread activities would not have been organized so successfully as they were. I thank them all.

Engr Rizwan Ahmed, Chairman
IEP-SAC Eastern Region

IEP-SAC Council 2011

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RECEPTION COMMITTEE	Engr Mustafa Noeed Ahmad (Convenor) Engr Tanweer Ejaz (Co-convenor) Engr Itlaq Ahmed Khan Engr Khalid Hussain Engr Akhtar Jawaid Niazi Engr Sami Uddin Chughtai Engr Asad Zuberi Engr Mohammad Saeed Iqbal
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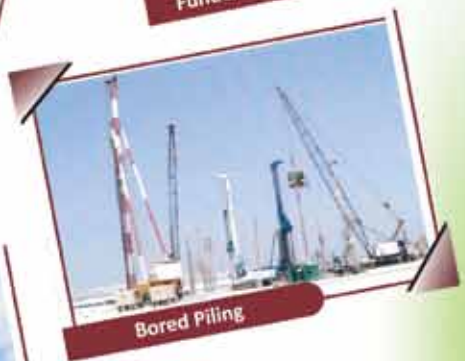
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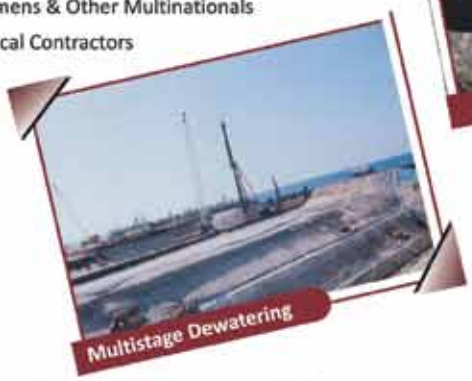
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SCENES FROM IEP–SAC **Activities**

EASTERN REGION

IEP–SAC–EP Technical Seminar, "Solar Energy: An Option Beyond Fossil Fuel",
23 Februray 2011, Dhahran International Hotel, Dhahran

SCENES FROM IEP–SAC **Activities**

EASTERN REGION

Eastern Region delegation holds meeting with the Sharqiyyah Chamber of Commerce Secretary General Mr Abudl Rahman Al–Wabel on April 5, 2011

Eastern Region delegation visits the facilities of Al–Tuwairqi Group on April 14, 2011

NEWS ROUNDUP

Clean Energy a Must for Human Survival

Pakistan Engineers' Seminar Focuses on Solar Energy

NEWS ROUNDUP

Saudi Commerce AND Economic Review

Issue 204 April 2011

FORTNIGHTLY

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News | March 1-15, 2011 | 12 | Engineering Review

IEP Saudia hosts seminar

Solar energy: option beyond oil

Challenge of solar power in spotlight

SIRAJ WAHAB | ARAB NEWS

ALKHOBAR: Solar energy is a good choice for Saudi Arabia because of its abundance of sunny days, atechnical forum here was told.

Engineers, scientists and businessman from across the Kingdom attended the seminar on solar energy.

The event, organized by the Eastern Province chapter of the Institution of Engineers Pakistan, was in line with the Kingdom's initiatives to promote alternative energy.

"Participants learned of the latest advancements that are making solar energy a viable alternative for large-scale systems," said Rizwan Ahmad, chairman of the Institution of Engineers Pakistan (Eastern Province).

The seminar theme was "Solar Energy - An Option Beyond Fossil Fuel."

Chief guest Ahmed A. Al-Dubhaikhi of Saudi Electricity Company thanked the engineering group for disseminating knowledge and sharing expertise at the event.

M. Tahir Chaudhry of Abu Dhabi-based Tenesol, a French photovoltaic manufacturer and systems operator, delivered the keynote speech.

Tariq Barlas of Al-Tawaqi Holding Co, left, with Ahmed A. Al-Dubhaikhi of Saudi Electricity Co, second left, Rizwan Ahmad of the Institution of Engerineers Pakistan, second righ, adt M. Tahir Chauhadry of Abu Dhai-based Tensol at the seminar on solar energy in Alkhobar. (AN. photo)

Even a single percent of the sun's output could be harnessed, it would more than satisfy global energy demand, he said.

He said recent advancements in technology had reduced the cost of solar power by about a third. Solar power is also pollution free during use. This is a major advantage, he pointed out.

He also cited its current disadvantages such as high capital costs. The electricity generated is also direct current, he added.

Engineers and guests, including Tariq Barlas, vice chairman and chief executive officer of Al-Tuwairqi Holding Co. and GEC General Manager Parvez Naushahi, also learned of the history, production, cost, types and working principles of different types of solar thermal panels including plates, concentrated using solar towers and photovoltaic cells as well as various manufacturing challenges.

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From Western Region

The Engineers' Welfare Forum (EWF) is the name of the IEP-SAC Subcenter in the Western Region. Last year, we organized a number of events to promote professional and social/welfare activities for engineers. The publication of our magazine, "The Engineer 2010-2011", was very much appreciated by the engineering community. Here is a brief report of the major events of the last year.

Workshop on AGRO Engineering

This workshop was organized at the mammoth Abu Dawood Auditorium of Jeddah Chamber of Commerce and Industry (JCCI) on 05 May 2010. It was not only attended by a large number of engineers but also intellectuals, journalists, community members and businessmen from the Kingdom, Pakistan and the USA. Three presentations were made by:

Syed Amanullah Hussaini on "Water crisis in Pakistan".

Prof Maqsood Ahmed on "Spider Technology for Modern Engineering".

Engr Aftab Islam Agha, ex-President of the Institutions of Engineers Pakistan (IEP), on "Agriculture Produce and Export".

The occasion was presided by the then Ambassador of Pakistan to the Kingdom, Mr Umar Khan Sherzai. The Chairman IEP-SAC Central Region, Engr Jaleel Hassan, specially attended the event on our request. Finally, besides thanking the speakers and the guests, I took the opportunity of elaborating the aims and objectives of EWF in serving the engineering community of the western region. At that occasion, our new magazine "The Engineer" was presented to the guests and EWF web site was launched by the Ambassador.

Workshop on Strategic Marketing

On 27 July 2010, I presided an EWF workshop at Marhaba Restaurant, titled "Strategic Marketing", conducted by the renowned Pakistani consultant Mr Asif J Meer. The chief guest was Mr Abdul Salik Khan, Consul General Pakistan. In an hour-long presentation, Asif Mir highlighted recent trends in marketing.

EWF By-laws

A dedicated team spent many days to prepare the Forum's by-laws which will be ready for presentation in the summer seminar of 2011.

EWF Membership Cards

Membership cards were printed and provided to leading members. The process will continue to include all registered members to have EWF membership cards.

Charity

EWF also extended financial support for the flood victims last year. The usual scholarship program continued which provided financial help to meritorious and needy students to complete their education.

Regular monthly board meetings were also held which set the direction of the Forum and venues to explore new ideas and cooperation among members and other professional organizations to help in finding employments, career opportunities and others social matters.

We appreciate the financial support of our valued sponsors without which we could not have successfully organized our activities.

I thank all those individuals who spent days and nights to make our activities successful and the publication of the magazine on time. Special thanks are due to those who inspired us to embrace the theme of EWF/IEP.

Engr Abdul Aleem Khan, President

Engineers' Welfare Forum

IEP-SAC Local Council

Western Region

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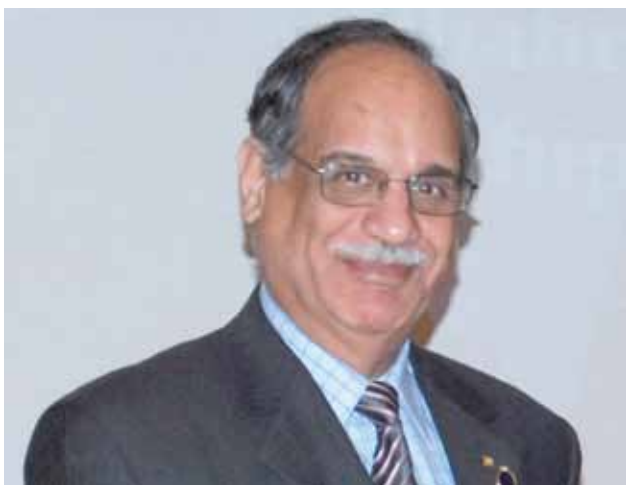
Professor Sheikh Asrarul Haq

It is a great pleasure to introduce someone who, at the age of 13, was forced by his family to truncate the education and join the small family business, but contrarily he went on a four-day hunger strike to convince them for continuing his education to fulfil his dream of becoming an engineer. At that time, nobody in the family could have visualized that one day this young boy will become Professor Sheikh Asrarul Haq, the first appointee in 2000 of a chair professorship in the Kingdom of Saudi Arabia in recognition of his vast research and teaching experience. The Bughshan/Bell Labs chair professor in Telecommunications at the Department of Electrical Engineering at King Fahd University of Petroleum and Minerals (KFUPM), Dhahran, Dr Haq established an advanced Telecommunication Research Laboratory in 2001 and led a research group of 13 faculty members and researchers.

Professor Haq worked during 2006-2007 as the Rector of Foundation University, Islamabad, and played an important role in defining the objectives and mission statement of the university. He established quality control and assessment procedures, scholarship and research schemes and outlined a detailed 15-year strategic plan for future expansion, development, new programs and financial projections of the university.



The research work of Professor Haq in the field of communication and information technology spans over a period of more than 40 years and has been well recognized which can be measured from the number of citations on his work made by other authors. For example, one paper published in 1994 has over 100 citations and another has 76 citations. The total number of citations on his work in IEEE journals and conferences exceeds 500. His contribution in various fields of research is enormous as he has presented a record 165 papers in refereed international conferences and 43 papers in regional conference proceedings. Additionally, 78 technical papers prepared by him independently or jointly have been published in the prestigious IEEE Journal of Electronics and Communications. These numbers continue to increase as Dr Haq's research endeavors are never ending.

Professor Asrarul Haq has authored a book namely *"Wireless Communications: Theory and Techniques"*, Kluwer Academic Publishers (now Springer), New York (2004). He has also co-authored the following books:

1. "*Mobile Communication Systems: Liberation of Telephone"*, in Canadian Developments in Telecommunication, University of Calgary Press, 1986.
2. "*Binary Ant Colony Algorithm for Symbol Detection in a Spatial Multiplexing System"*, in Unconventional Computation, lecture notes in computer science, Springer Berlin/Heidelberg, pp 115-126, ISBN: 978-3-540-73553-3, 2007.
3. *"A Centrally Managed Dynamic Spectrum Management Algorithm for Digital Subscriber in Line System"*, in Communications in Computer and Information Science, Springer-Verlag, Germany, 2008.

The following two books under his sole authorship are nearing completion:

1. *"Communication Systems: Principles, Techniques and Applications"*.
2. *"A Girdle in the Foot"*.

Dr Asrar has 40 technical/feasibility reports to his credit, 47 graduate students for Master's Theses/projects, and 15 post-graduate students for Doctoral theses/research. Additionally, three Ph D theses are in progress. He has also supervised four post-doctoral researches in the field of communication during 1989-1994. He has served on two doctoral thesis committees and eight Masters thesis committees. He has completed four design/research projects with various highly qualified team members at KACST and KFUPM during 2004-05.

Asrar began his career after graduating from Government College of Engineering and Technology [the precursor of the University of Engineering and Technology (UET), Lahore] in 1964 with honors. He further strengthened it with an M Sc (Information Technology) in 1966 from the University of Birmingham followed by a Ph D (Radio Engineering) in 1969 from the same university. He then returned to UET and taught there for nearly 18 months before being sent on deputation to Tabriz (Iran) and then to Tripoli (Libya) to a total of five years. In 1975, he worked as post-doctoral fellow at the University of Birmingham on Mobile Communications for three and a half years. Immediately after that, he joined University of Garyounis, Ben Ghazi, Libya, as Associate Professor and continued till 1981.

His enthusiasm for research forced him to migrate to Canada in 1981, where he joined the Department of Systems and Computer Engineering at Carleton University, Ottawa, as an Associate Professor. He was promoted to full Professorship in 1985 and continued there until 1998. During this tenure he worked as Associate Chairman for graduate studies and founded Personal Communications Systems (PCS) Research Laboratory and served as its founding Director. As the Director PCS Lab, he led a powerful team of researchers throughout 1991-94 on an NSERC strategic research project of Universal Secure and Efficient Telecommunications Systems (USECS) to a successful completion. At Carleton University, Ottawa, he received outstanding performance award in teaching twice and excellence in research award once in 1994.

In 1997, Professor Asrar joined Hong Kong Polytechnic

University on its request and founded a Wireless Information and Systems Research Centre (WISRC) there, equipped with modern research equipment including a fast computer network with DEC Alpha Stations. He served as the Associate Head of the Department and a member of the Engineering Faculty Advisory Committee.

He has taught courses related to communication theory, wireless communications, mobile communications, digital communications, linear systems, automatic control systems, information theory, microwave engineering, electronics, and the like.

Dr Asrar is a licensed Professional Engineer (P Eng) of Association of Professional Engineers of Ontario, Canada and a Chartered Engineer (CE) of Council of Engineers, UK. He is a Fellow of IEEE (USA), Fellow of IEE (UK) and Member IEP (Pakistan). Besides various academic achievements and research awards from the Carleton University, he has been honored with KACST Bronze Certificate for outstanding research (2010), College of Engineering Sciences research awards (2005 and 2006), Recognition and Honour for Outstanding Performance in the 48th annual IEEE Vehicular Technology Conference at Ottawa (1999) and Paul Adorian Premium for outstanding papers published in the field of communication engineering in IERE Journal (1984).

Dr. Asrar has been instrumental in organizing many international technical seminars and conferences, delivering short courses, tutorials and lectures and similar other activities. He is very active in promoting research and publications with several professional organizations, particularly IEEE. Currently, he is Vice chairman of the IEEE Engineering Education Society (Saudi Chapter) and Chairman of the Publication Committee of Saudi Scientific Society for Electrical Engineers (SSSEE). He had been appointed as member of Board of Governors, IEEE Vehicular Technology Society during 1993-99. He has delivered plenary, keynotes and invited talks on numerous occasions.

He had also been providing professional consultancy services to more than 15 institutes, associations, manufacturers and departments in the public and private sectors including DOC, CRC, CSA, Revenue Canada, CP Rail, Radnet Communications, Ericsson-GE, Novatel, BNR, CAE, GEC Alsthom and Cathay Pacific Airlines. He provided professional services to several railroad operators on the aspect of data transmission over radio channel through Lapp-Hancock Associates contributing mainly in proposing an overall communication architecture and establishment of hierarchy of the network nodes in the Advanced Train Control System (ATCS). This work is considered to be a significant finding to the railroad industry and now has become part of ATCS data link specifications. It resulted in a citation which led Dr Asrar to the grade of IEEE fellow.

Dr. Asrar has been performing Editorial responsibilities of more than 10 international journals and publications. This includes working as Regional Editor of Research Journal of Applied Sciences, Engineering and Technology (2010 to date); Editor-in-Chief of International Journal of Wireless Networks and Communications; Editor of IEEE Transactions on Wireless Communication (2002-2005); Associate Technical Editor of IEEE Communication Magazine (2000-2002); Member Editorial Board of Wireless Communications and Mobile Computing (2001 to date); Member Editorial Board of International Journal of Personal and Wireless communications (1988 to date). Professor Asrar has been involved in the technical program committees of various conferences, mostly IEEE's, for more than 40 occasions as a member or chair person.

When asked about his major areas of current research activities, Prof Sheikh answered that he has been actively working on mobile radio channel characterization research for several years and collaborated with a number of telecommunication companies on this subject. Research is continuing in measurement and modeling of wideband channel for use in MIMO Systems. A study on the influence of chosen channel model on cellular/ portable telecommunication has been completed. A Rician/ Rayleigh model for microcellular system proposed by him has become a basis for analysis of co-channel interference in several recently published international papers. His work in this area has served as a main reference in microcell system design. He says, "My research work on the performance measurements of data transmission over mobile channels during 1981-82 using the existing analog communication equipment was used by the Department of Communications to establish the regulatory directives on spectrum management. The work was also used in making recommendations on data rates over mobile wireless channels."

Dr Sheikh believes that telecommunication technology is vital in uplifting the current unacceptable living conditions in Pakistan and he is always willing to work for the transfer and development of this technology to the developing countries in general and to Pakistan in particular. He has been delivering lectures, short courses and tutorials to initiate research projects in satellite communications since 1995 under UNDP and IBCAST.

Notwithstanding his high standing in the field of mobile communications, Dr Asrar actively involves himself with the community service. He has been an active council member of the IEP-SAC Eastern Region for several years and is currently its Vice Chairman. Chairman Rizwan Ahmed says, "Dr Asrar's devotion to community work is exemplary. His research, teaching, and consultancy work do not deter him from contributing to the betterment of Pakistani engineers. This is something we all need to learn and follow." "The IEP-SAC Eastern Region is proud of having him on its roll," added Engr Rizwan.

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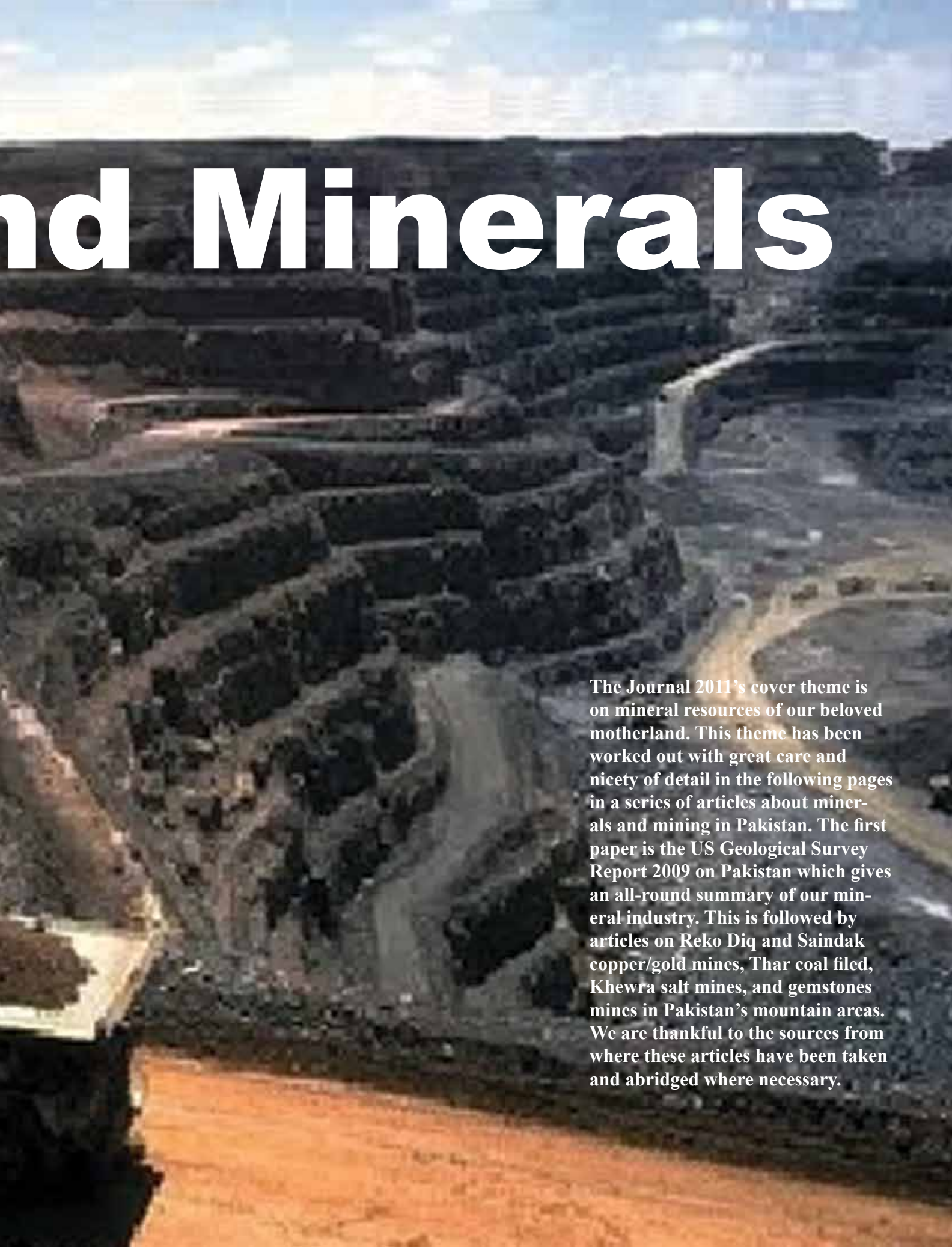

nd Minerals

The Journal 2011's cover theme is on mineral resources of our beloved motherland. This theme has been worked out with great care and nicety of detail in the following pages in a series of articles about minerals and mining in Pakistan. The first paper is the US Geological Survey Report 2009 on Pakistan which gives an all-round summary of our mineral industry. This is followed by articles on Reko Diq and Saindak copper/gold mines, Thar coal filed, Khewra salt mines, and gemstones mines in Pakistan's mountain areas. We are thankful to the sources from where these articles have been taken and abridged where necessary.

The Mineral Industry of Pakistan

by

Chin S Kuo

Pakistan is rich in such mineral resources as coal, copper, iron ore, limestone, and salt. Copper and iron ore resources are large and significant in terms of deposits already discovered. New high-grade iron ore deposits were estimated to contain 400 million metric tons (Mt) of ore in Balochistan and Northwest Frontier Provinces. The country has extensive energy resources and is known to have moderate oil and sizable gas reserves estimated to be 289 million barrels (Mbbl) and 792 billion cubic meters, respectively (U.S. Energy Information Administration, 2009). In addition, there was large hydropower potential. In 2009, Pakistan's economy was dominated by the services, industrial, and agriculture sectors, which accounted for 55%, 24%, and 21% of the gross domestic product (GDP), respectively. Industrial output grew at a rate of 14%. Mining and quarrying accounted for 12% of the industrial production (State Bank of Pakistan, 2010).

Minerals in the National Economy

The value of output from the mineral industry accounted for 2.9% of the GDP, which posted a growth rate of 2.7% in 2009. Mining and quarrying output increased by 18% in terms of tonnage. Weak demand in the world market for Pakistan's mineral products and raw materials and uncertain domestic policies contributed to the country's decreased exports and high trade deficit. Exploitation of energy resources had been slow owing to a shortage of capital and to political instability. As a result, energy imports, such as crude oil and petroleum products, accounted for about 30% of the country's total imports of $28.4 billion in 2009. Energy imports came mainly from Kuwait, Saudi Arabia, and the United Arab Emirates. Dependence on imported oil also contributed to Pakistan's trade deficit and shortage of foreign exchange. In addition, the country imported iron and steel products (U.S. Central Intelligence Agency, 2010).

Production

Pakistan produced a variety of industrial minerals, including aragonite, barite, celestite, clays, gypsum, limestone, and salt. Indigenous limestone was used mainly in the cement industry. Output of limestone increased at a slower pace in 2009 compared with that of previous years and cement production remained the same owing to low capacity utilization because of weaker demand. Metallic minerals mined included bauxite, chromite, copper, and iron ore. Production of bauxite and iron ore increased by an estimated 15.6% and 4%, respectively, in 2009. Chromite was mined by Pakistan Chrome Mines Ltd. in Balochistan, and its metallurgical-grade ore (45% Cr_2O_3) was exported to China. Copper ore was mined in the Chaghi District by Saindak Metals Ltd., and output of mined copper decreased slightly. In 2009, the country produced lead and zinc concentrate for the first time from the Duddar Mine. Pakistan's oil production of 80 Mbbl was not sufficient to meet its domestic demand. Output of 77 billion cubic meters of natural gas came from large fields at Mari and Sui. Data on mineral production are in table 1.

Structure of the Mineral Industry

The National Mineral Policy (1995) was intended to provide the institutional and regulatory framework for ensuring an equitable and internationally competitive fiscal regime. The goal of the policy is to expand mining sector activities and attract foreign investment. The Mineral Department of the Ministry of Petroleum and Natural Resources is responsible for Pakistan's exploration, planning, development, and operation of mining ventures. The Ministry itself is responsible for the exploration and production of hydrocarbons and for the transmission and distribution of natural gas. State-owned companies control the production and marketing of chromite, coal, copper, iron ore, and steel. Private-sector companies are allowed to own and produce nonfuel minerals—mainly industrial minerals, including cement. Despite the Government's efforts to privatize large-scale state-owned companies, the public sector companies continued to account for a significant amount of mineral production (table 2). Employment in the mineral industry accounted for 1.6% of the labor force of 50 million.

Commodity Review

Metals

Copper and Gold

The $100 billion Reko Diq project in the Chagai District in Balochistan Province was a copper/gold porphyry deposit that contained 12.3 Mt of copper and 650 metric tons (t) of gold in indicated and inferred resources. The mine was being explored and developed by Tethyan Copper Co. Pty. Ltd. of Australia which held a 75% interest and was jointly owned by Barrick Gold Corp. of Canada and Antofagasta Minerals of Chile, and the Balochistan Development Authority, which held the remaining 25% interest. The

deposit was located in the neighborhood of the Saindak copper deposit, which was leased to Metallurgical Construction Corp. of China for 10 years, and was four times larger in copper ore resources than the Saindak deposit. Initial production of 170,000 metric tons per year (t/yr) of copper and 9.3 t/yr of gold and eventual output of 350,000 t/yr of copper and 28 t/yr of gold were planned (Rupee News, 2009).

Iron and Steel

The Government decided to set the prices of all the Pakistan Steel Mills Corp. Ltd. products in accordance with the international market and dispose of its stocks by open bidding. The Government also decided to increase the state-owned company's production capacity to 5 million metric tons per year (Mt/yr) from 1.1 Mt/yr by awarding the contract through international tenders. The country's steel industry had an installed capacity of 2 Mt/yr but produced only 1.1 Mt in 2009, of which Pakistan Steel Mills produced 1 Mt. Pakistan consumed 5.6 Mt of steel in 2009. Per capita steel consumption was only 30 kilograms per year (Steel Guru, 2009).

Lead and Zinc

The Duddar lead and zinc mine, which was located in the Lasbela District in Balochistan Province and operated by MCC Duddar Minerals Development Co. Pvt., initially produced 5,000 t/yr of zinc and between 25,000 t/yr and 30,000 t/yr of lead in concentrate. In September 2009, the mine shipped between 3,000 t and 4,000 t of concentrate to the Zhuzhou zinc smelter in China. Duddar Minerals Development was a joint venture of China Metallurgical Group Corp., Hunan Huangshaping Lead and Zinc Mine Co., and Hunan Zhuzhou Nonferrous Metals Smelter Co. Ltd., all of China. The mine had a processing capacity of 660,000 t/yr of ore (China Metallurgical Group Corp., 2009).

Industrial Minerals

Cement

The cement industry played a key role in the development of the country's infrastructure. The industry has integrated production facilities that use locally available raw materials and modern dry-process technology. The cement manufacturers added 8 Mt/yr of new capacity, and the total production capacity was expected to be 45 Mt/yr by the end of 2009. Lucky Cement Ltd. had a 4-Mt/yr-capacity cement plant at Pezu in Northwest Frontier Province and a 3.75-Mt/yr-capacity plant in Karachi. The company accounted for one-third of Pakistan's overseas sales and exported 57% of its production to Afghanistan, Africa, Egypt, India, the Middle East, and Sri Lanka. In another development, Fauji Cement Co. Ltd. was installing a cement plant with the capacity to produce 7,560 metric tons per day of clinker at Jhang-Bahtar in Punjab Province, which would increase the company's total capacity to 3.27 Mt/yr from 1.17 Mt/yr of cement. The new plant was scheduled to begin production by May 2010 (World Cement, 2009).

Mineral Fuels

Coal

Pan Energy Development Co. (PEDCO) of the Republic of Korea and Bin Din Group of the United Arab Emirates signed an agreement with the Government for a stake in coal blocks in the Thar desert region in Sindh Province, which had 100 billion metric tons (Gt) of estimated coal resources. The coal blocks (Blocks 4 and 8) had an estimated coal resource of 2.56 Gt. PEDCO expected 2 Mt/yr of coal production by 2011 from the Blocks and 10 Mt/yr beginning in 2015 (Mining Exploration News, 2009). An investment of $700 million would be required to build a coal-fired powerplant at Sondha Jheruk, which would generate 250 megawatts (MW) to 300 MW of electricity initially and increase to 1,000 MW gradually. The powerplant would be Pakistan's first and largest coal-fired plant, which would generate job opportunities for an estimated 90,000 skilled and non-skilled workers (News, The, 2009).

Natural Gas

OMV AG started gas production from the extended Latif-1 well, which is located100 kilometers (km) from Sukkur in southern Sindh Province. The project produced 1,000 barrels per day (bbl/d) of oil equivalent during the first three quarters of 2009 and increased to 4,000 bbl/d of oil equivalent after the Latif-2 well was drilled in the fourth quarter. Natural gas was transported through a 23-km pipeline to the OMV-operated Kadanwari gas plant and was sold to Karachi Utility and Sui Southern Gas Co. Ltd. OMV's gas production in Pakistan was 17,000 bbl/d of oil equivalent, and the company operated the Block with a 33.4% stake. Eni S.p.A. of Italy and Pakistan Petroleum Ltd. (PPL) each held a 33.3% interest (Oil & Gas Journal, 2009a).

The Government was considering importing liquefied natural gas (LNG) from Qatar and authorizing Royal Dutch Shell plc and a consortium that included 4Gas of the Netherlands to initiate a deal with Qatar. Shell and the consortium had an agreement with Sui Southern Gas Co. Ltd. regarding the importation of LNG from Qatar. Pakistan would have a gas shortfall of 293 million cubic meters per day by the year 2015 as the domestic gas supply was projected to decline to 61 million cubic meters per day from 2009 owing to the depletion of indigenous reserves, against a gas demand of 354 million cubic meters per day. In 2008, the country's gas supply was 122 million cubic meters per day (Oil & Gas Journal, 2009b).

The Government approved a plan to import natural gas from Iran through the $7.4 billion Iran-Pakistan-India pipeline and signed a gas deal with Iran in May 2009. The gas sale purchase agreement was signed by Pakistan

Interstate Gas System and National Iranian Oil Co. The 2,100-km pipeline, of which 1,100 km would be laid in Iran and 1,000 km in Pakistan, would transmit 21.2 million cubic meters per day of gas and was expected to be completed in 5 years. Pakistan would take 73.6 million cubic meters per day from Iran's South Pars gasfield during the next 25 years (Oil & Gas Journal, 2009c).

Petroleum

Eni, in joint venture with PPL and Shell, won a bid tender for the exploration license of the onshore Sukhpur block in Sindh Province. The Block lies in the vicinity of Eni-operated producing areas of Badhra and Bhit. The company held 22 exploration and production licenses in Pakistan including 15 exploration licenses (3 offshore and 12 onshore) and 7 production or development licenses (3 operated) (Rigzone.com, 2009).

The Government planned three oil refineries with a total capacity of 465,000 bbl/d. They were the 250,000-bbl/d Khalifa Coastal Refinery and the 115,000-bbl/d Bosicor Oil Pakistan Ltd. refinery, both at Hub in Balochistan Province, and the 100,000-bbl/d Trans-Asia Refinery Ltd. project at Port Qasim in Karachi. The refineries were free to sell their petroleum products to any marketing companies or to set up their own marketing firms. All new refinery projects of at least 100,000 bbl/d installed along the coastal Balochistan Province could enjoy a 20-year income tax holiday. The terms and conditions of the trade policy would be applied to the import from second-hand refineries (Oil & Gas Journal, 2009d).

Outlook

Pakistan's Reko Diq project is still being developed and is expected to produce copper and gold in 2010 in addition to copper output from Saindak Metals' mine in Chaghi. The newly discovered iron ore deposits and increased production of iron ore are expected to reduce the imports of iron ore for blending and provide sufficient supply of iron ore for the expansion of Pakistan Steel Mills' steel plant and possibly a second steel mill that was planned to be built in the near future. The country's production of lead and zinc ore is expected to increase gradually as mine operation at Duddar gets underway. The cement industry is expected to add new production capacities in 2010. Abundant lignite found in the Thar District in Sindh Province is expected to be used in coal-fired power plants being planned or under construction to increase the power-generating capacity in the next 2 to 3 years. The Government encourages the independent power producers to generate electricity by using natural gas, which also is abundant in the country. The supply of natural gas is expected to decline from domestic sources, however, and imported LNG, natural gas, and petroleum will increase to meet the country's energy requirements.

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Source: U.S. Geological Survey Minerals Yearbook—2009

TABLE 1
PAKISTAN: PRODUCTION OF MINERAL COMMODITIES[1]
(Metric tons unless otherwise specified)

Commodity		2005	2006	2007	2008[e]	2009[e]
METALS						
Bauxite, gross weight		6,504	12,917 [r]	27,382 [r]	32,000 [r]	37,000
Chromium ore:[e]						
Gross weight		73,000 [2]	98,000	108,000	110,000	112,000
Cr_2O_3 content		32,900	44,100	48,600	49,500	50,000
Copper, mine, Cu content[e]		17,700 [2]	19,100	18,800	18,700	18,500
Iron and steel:						
Iron ore, gross weight[e]	thousand metric tons	50	130 [2]	207	250	260
Pig iron	do.	104 [r]	500 [r]	1,001 [r]	1,000 [r]	1,000
Steel, crude	do.	825	933 [r]	1,000 [r, e]	1,100	1,100
Lead, Pb content in concentrate		--	--	--	--	26,000
Refined, secondary[e]		3,200	3,100	3,000	3,000	2,900
Zinc, Zn content in concentrate		--	--	--	--	5,000
INDUSTRIAL MINERALS						
Abrasives, natural, emery[e]		150	150	150	150	150
Barite		42,087	45,169	48,044 [r]	48,000 [r]	49,000
Cement, hydraulic[e]	thousand metric tons	17,000	20,652 [2]	25,745 [r, 2]	26,000 [r]	26,000
Chalk		8,146	6,039	2,892 [r]	2,800 [r]	2,700
Clays:						
Bentonite		15,671	23,773	32,382 [r]	33,000 [r]	34,000
Fire clay		253,501	332,136	337,071 [r]	330,000	335,000
Fuller's earth		17,001	15,848 [r]	12,884 [r]	13,000 [r]	15,000
Kaolin, china clay		37,732	443,402 [r]	756,536 [r]	750,000 [r]	760,000
Other[e]		215,000	216,000	218,000	220,000	250,000
Feldspar		25,032	15,085	13,236 [r]	12,000 [r]	10,000
Fluorspar[e]		1,040	2,839 [2]	2,082 [r, 2]	1,700 [r]	1,400
Gypsum, crude		552,496	649,944	703,137 [r]	700,000 [r]	650,000
Magnesite, crude		3,029	1,884	2,370 [r]	1,600	2,000
Nitrogen, N content of ammonia[e]		2,114,000 [2]	2,200,000	2,250,000	2,300,000	2,350,000
Phosphate rock:						
Gross weight		2,687	2,048	3,840 [r]	3,900 [r]	4,000
P_2O_5 content[e]		490	370	690 [r]	700 [r]	720
Pigments, mineral, natural, ocher[e]		5,500	5,500	6,000	6,000	6,200
Salt:						
Rock	thousand metric tons	1,648	2,008	10,153 [r]	10,000 [r]	10,500
Marine	do.	14	13	18 [r]	18 [r]	19
Total	do.	1,662	2,020 [e]	10,200 [r, e]	10,000 [r]	10,500
Sodium compounds, n.e.s.:[e, 3]						
Caustic soda		250,000	240,000	230,000	240,000	250,000
Soda ash, manufactured		260,000	250,000	260,000	250,000	260,000
Stone:						
Aragonite and marble		1,280,304	1,416,373 [r]	1,581,369 [r]	1,600,000 [r]	1,650,000
Dolomite		199,653	252,390	333,082 [r]	340,000 [r]	350,000
Limestone	thousand metric tons	14,857	22,420	31,046 [r]	34,000 [r]	36,000
Other, as "ordinary stone"	do.	6	5	5	5	5
Strontium minerals, celestite		1,855	1,466	1,476 [r]	1,500 [r]	1,600
Sulfur, native[e]		24,158 [2]	23,000	22,000	21,000	20,000
Talc and related materials, soapstone		20,564	24,529	32,675 [r]	33,000 [r]	35,000
Coal, all grades	thousand metric tons	3,367	4,313	3,926 [r]	3,800 [r]	3,600
Coke	do.	--	242	308 [r]	310 [r]	320
Gas, natural:						
Gross production	million cubic meters	38,089	39,813	40,579 [r]	41,000	42,000
Marketed production, sales[e]	do.	34,000	36,000	37,000	38,000	39,000
Natural gas liquids[e]	thousand 42-gallon barrels	700	700	750	750	750
Petroleum:						
Crude	do.	24,119	24,275	25,109 [r]	26,000	27,000
Refinery products:[e]						
Gasoline	do.	9,959 [2]	10,000	11,000	12,000	11,000
Jet fuel	do.	8,833 [2]	9,000	9,800	9,900	10,000
Kerosene	do.	1,511 [2]	1,300	1,100	1,000	1,000
Distillate fuel oil	do.	26,857 [2]	28,000	30,000	32,000	31,000
Residual fuel oil	do.	23,346 [2]	23,000	23,500	23,000	24,000
Lubricants	do.	1,401 [2]	1,500	1,500	1,600	1,600
Other	do.	10,264 [2]	12,000	14,000	15,000	16,000
Total	do.	82,171 [2]	84,800	90,900	94,500	94,600

[e]Estimated; estimated data are rounded to no more than three significant digits; may not add to totals shown. [r]Revised. do. Ditto. -- Zero.
[1]Table includes data available through August 16, 2010. [2]Reported figure. [3]Not elsewhere specified.

TABLE 2
PAKISTAN: STRUCTURE OF THE MINERAL INDUSTRY IN 2009

(Thousand metric tons unless otherwise specified)

Commodity		Major operating companies and major equity owners	Location of main facilities	Annual capacity[e]
Barite		Bolan Mining Enterprises	Khuzdar, Balochistan Province	24
Do.		Razvi Mining (Private) Ltd.	Gandori, Kalan, and Retri	30
Cement		Askari Cement Co. Ltd.	Nizampur	1,200
Do.		Attock Cement Pakistan Ltd.	Hub Chowki	800
Do.		Cherat Cement Co. Ltd.	Nowshera	750
Do.		Dandot Cement Co. Ltd.	Dandot	500
Do.		Fauji Cement Co. Ltd.	Jhang Bahtar	1,170
Do.		Gharibwal Cement Ltd.	Jhelom	540
Do.		Javedan Cement Ltd.	Karachi	600
Do.		D.G. Khan Cement Co. Ltd.	Chakwal and Dera Ghazi Khan	1,650
Do.		Kohat Cement Co. Ltd.	Kohat	700
Do.		Lucky Cement Ltd.	Karachi	3,750
Do.		do.	Pezu	4,000
Do.		Maple Leaf Cement Factory Ltd.	Daudkhel	1,500
Do.		Pakistan Cement Co.	Between Islamabad and Lahore, Punjab Province	2,200
Do.		Pioneer Cement Ltd.	Chenki	1,300
Do.		Thatta Cement Co. Ltd.	Thatta	300
Do.		Zeal Pak Cement Factory Ltd.	Hyderabad	1,080
Chromite		Pakistan Chrome Mines Ltd.	Gwal, Khanozai, Muslim Bagh, and Nisai	20
Coal		Sindh Coal Authority	Dadu, Sindh Province	4,000
Do.		do.	Thar, Sindh Province	NA
Copper, metal		Saindak Metals Ltd.	Chaghi, Balochistan Province	22
Gas, natural	million cubic meters per day	Pakistan Petroleum Ltd. (PPL)	Adhi, Punjab Province; Kandhkot and Mazarani, Sindh Province; and Sui, Balochistan Province	24
Do.	do.	Oil and Gas Development Co. Ltd. (OGDCL)	37 oilfields and gasfields including Mari, Sindh Province	31
Lead and zinc, ore		MCC Duddar Minerals Development Co. Pvt.	Duddar, Balochistan Province	660
Petroleum, crude	42-gallon barrels per day	Pakistan Petroleum Ltd. (PPL)	Adhi, Punjab Province	1,600
Do.	do.	Oil and Gas Development Co. Ltd. (OGDCL)	37 oilfields and gasfields	46,000
Petroleum, refined	do.	Bosicor Pakistan Ltd.	Karachi	30,000
Do.	do.	Pak-Arab Refinery Co. Ltd.	Mahmood Kot, Punjab Province	100,000
Steel, crude		Pakistan Steel Mills Corp. (Pvt) Ltd. (PSM)	Karachi	1,100

[e]Estimated. Do., do. Ditto. NA Not available.

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The Reko Diq Project

Editor's note: This article is mainly based on information extracted from www.tethyan.come. This is being presented here because it includes material that is of engineers' interest. It may nevertheless be noted that the case of mining at Reko Diq is subjudice, hence, the judgment of the Supreme Court of Pakistan will finally lay the foundation for mining operation in Reko diq. In the next article, we have provided a different viewpoint.

Reko Diq is a remote location in the North-West of Chaghi district. Chaghi is a sparsely populated western desert province of Balochistan. It is mostly low relief and thinly populated desert. The weather of Chaghi ranges from very hot summers of 40-50°C to very cool winters of up to -10°C with less than 40 mm precipitation (winter rain and minor snow). It also exhibits periods of high wind and dust/sand storms which have a demobilizing impact on the local activities and trade. Access to the Chaghi district is via the Zahidan-Quetta highway, also known as the London Road.

The Reko Diq area is part of the Tethyan Magmatic Arc, extending through central and southeast Europe (Hungary, Romania, Bulgaria, Greece) Turkey, Iran and Pakistan through the Himalayan region into Myanmar, Malaysia, Indonesia, and Papua New Guinea. It contains wealth of large copper-gold ore deposits of varying grades.

Reko Diq area is one of many eroded remnant volcanic centers in the Chaghi volcanic chain of mountains which runs in an east west line across Balochistan between the Quetta to Taftan railway and the border with Afghanistan.

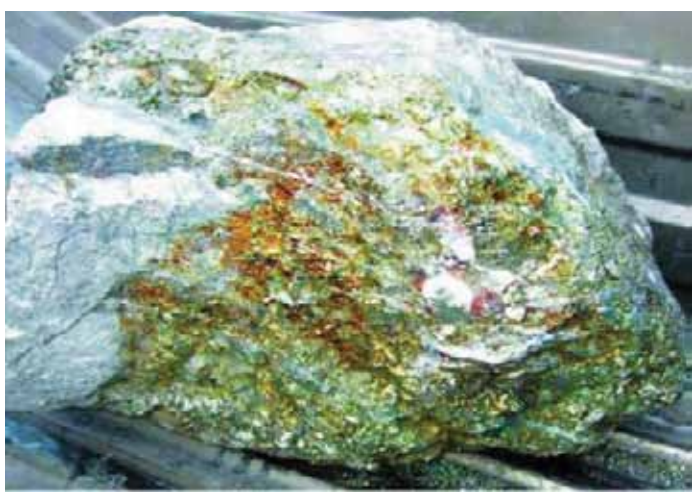
Reko Diq Resource

The deposit at Reko Diq is large low grade copper porphyry, with total mineral resources of 5.9 billion tons of ore with an average copper grade of 0.41% and gold grade of 0.22 g/ton. From this, the economically mineable portion of the deposit has been calculated at 2.2 billion tons, with an average copper grade of 0.53% and gold grade of 0.30 g/ton, with an annual production estimated at 200,000 tons of copper and 250,000 ounces of gold contained in 600,000 tons of concentrate.

According to the extensive technical and financial studies undertaken, in order to secure optimal 'economies of scale' efficiencies, and lower mining and processing costs, a large scale, state-of-the-art mining and processing unit is required at Reko Diq. According to the Tethyan Copper Company (TCC), it brings with it the technological edge and proven expertise of its parent companies, Barrick Gold and Antofagasta Minerals, for making Reko Diq project the first ever large scale copper and gold mine in Pakistan.

TCC Reko Diq Project

TCC claims that the combined market capitalization of Antofagasta-Barrick provides the financial strength needed to develop a large scale project like Reko Diq. TCC has completed an extensive exploration program at Reko Diq with more than 300,000 meters drilling comprising mainly diamond and reverse circulation drilling.



The Reko Diq Mining Project is a US$ 3.3 billion capital investment project that promises to build and operate a world class copper-gold open-pit mine at Reko Diq. The project has an estimated mine life of 56 years. The annual production of the TCC Reko Diq project is estimated at 200,000 tons of copper and 250,000 ounces of gold from 600,000 tons of concentrate. In order to achieve this production rate, approximately 110,000 tons of ore should be processed daily. High-efficiency mining techniques and cutting-edge technology is required to achieve economic feasibility for the TCC Reko Diq project.

TCC has recently completed a bankable feasibility study report for initial mine development. With the Environmental and Social Impact Assessment (ESIA) report almost completed, negotiations with the Government of Balochistan are underway for conversion of the current exploration license into a mining license under the Balochistan Mineral Rules. This matter is yet to be decided by the Supreme Court of Pakistan.

The initial mine development plan envisages that in the processing plant about 110,000 tons of ore per day will be processed through flotation process and a 680 km concentrate pipeline will transport the product from the mine site to the port of Gwadar to a dedicated marine terminal facility at the port for storage and transfer to shipping vessels for supply to smelters throughout the world. In order to secure optimal 'economies of scale efficiencies' and lower mining and processing unit costs, a large scale mining and processing project is required.

The proposed processing plant will produce approximately 600,000 tons of copper concentrate a year, which will contain 28-31% copper and 7-22 g/ton gold, which translates to about 200,000 tons copper and 250,000 ounces of gold per year. The commercial mining operations are anticipated to last for over 56 years with an estimated annual operating expense of about US$ 400 million of which 45%-50% will be spent nationally.

According to TCC, the company is committed to the development of a mining initiative that has the potential to cause the transformation of Balochistan's dormant mineral resources into profitable mineral reserves. The project is said to offer the scale to significantly contribute to the uplift of the local people and strengthen the economy in general by generating long term revenues in the form of royalties, taxes, profit-sharing and employment opportunities. As soon as the TCC Reko Diq project goes into development, TCC believes it will become a beacon for further investment into exploration and mining sectors in Balochistan and Pakistan in general.

Future Developments: Setup of Mining Operations

The next steps to advance the project will be taken by TCC as soon as the mining lease is granted, followed by project financing and construction of ancillary infrastructure to make the mine operational.

Mining Technique Used

The mining operation at Reko Diq is modeled on an open pit mine utilizing a conventional 'truck and shovel' technique. This means that giant mechanical shovels shall be used to dig out the copper ore which shall then be loaded onto 360 ton trucks that will then haul tons of copper ore on a daily basis from the mine to the processing facility. At the processing facility the rocks (ore) shall be crushed in giant crushers. This crushed ore shall then be transferred to a fine-grinding stage where it will be converted into a powdered form. This powder, containing small quantities of copper and gold shall pass through a separation process called 'flotation', resulting in a 30% concentrated slurry of copper and traces of gold.

This concentrate is the final product of the Reko Diq Mining Project which shall then be transported to Gwadar port in Balochistan via a 682 km long underground slurry pipeline. This will be the longest pipeline in the world transporting copper concentrate. The scope of operations at the Gwadar port shall be limited to receiving, de-watering, storing and ship-loading concentrate for onwards selling to smelting units globally.

In order to keep the process running round the clock, the average mining rate will be about 293,000 tons per day of ore and waste and, at this rate, the open-pit mining will continue for 46 years, thereafter the ore processing will continue for another 10 years utilizing the ore stockpiles created over the years during the mining operation. In the processing plant about 110,000 tons of ore per day will be processed through flotation process. The plant will produce approximately 600,000 tons of copper concentrate a year, which will contain 28-31% copper and 7–22 g/ton gold. That translates to about 200,000 tons copper and 250,000 ounces of gold per year.

Mining Technology Deployed

The Reko Diq mine will employ state-of-the-art mining equipment, support systems and maintenance practices. To operate this project, latest technological innovations will be introduced, putting the Reko Diq project at the cutting edge of technology. This will include 360 tons haul truck

equipped with computer controlled engine management systems, and the Reko Diq process plant will be one of the only few hard-rock mines in the world to apply High Pressure Grinding Rolls (HPGR) between crushing and milling. Use of latest technology is critical to create efficiencies in the processes to make Reko Diq a long term economically viable project.

Training and Technology Transfer

Significant skill and technology transfer shall take place during the life of the mine in Balochistan. TCC is committed to skill development and training of local employees to ensure that indigenous capabilities develop along with the technology transfer. TCC has on-site training programs for its employees and off-site training opportunities are provided within training institutes in Pakistan and also abroad.

TCC has an integrated training program, comprising a basic skills development module and a specialist vocational training module. The Basic Skills Development Module shall focus on development of basic safety, team and leadership skills set in order to support a safe, collaborative and positive work environment. Specialized training shall include electrical, mechanical, construction, heavy equipment operations and an array of other technical skills essential to the project.

The maintenance and repairs contracts will expose the local service providers to world class technology and state-of-the-art-equipment. This will help flourish and advance the locally and nationally available technical capacity, improve academic and vocational training curriculum and eventually improve employability and mining industry standards.

Ancillary Infrastructure Development

Power Plant

From mining to the processing of the ore requires considerable amount of electricity. Since there is no power supply in the area, the project will have its own power supply. A 189 MW power plant is planned to be built at the site to provide uninterrupted supply of electricity for the project, ancillaries and the residential colony. Heavy furnace oil based combined cycle reciprocating engines will be installed to provide 99.5% availability.

Pipeline

The concentrate produced at the processing plant will be further fluidized into a 53-57% slurry and transported to the Gwadar port via a pipeline. It will be an underground pipeline 682 km from Reko Diq connecting to Gwadar port. Leak detection equipment will be installed and the pipeline will be encased in concrete at river crossing. Three booster stations will be established along the route.

Port

A number of facilities will be built at Gwadar port in order to handle the concentrate for its final shipment for export. These include: de-watering facilities and pressure filters wherein concentrate is removed from the slurry, warehouse to store the dried concentrate, conveyor belt arrangement to transport the concentrate from storage yard to the shipping berth, and ship-loader to load the ship with the concentrate cargo.

Project Village

Due to long life of Reko Diq Project, TCC will build a permanent village to provide lodging at the camp site for Reko Diq workers. Design of the proposed village takes into consideration the local social and cultural milieu. This village will accommodate up to 10,000 persons during construction phase and up to 3,000 for operations phase. Local materials and labor will be used for the construction of this village at a sheltered location, 10 km from mine site to reduce wind, dust and noise. It will include facilities such as education, sports, mosque, clinic, library, public square, bus shelters, dining halls, retail outlets, and semi-private courtyards for after-hours socializing.

VIEWPOINT

Requiem for Reko Diq

by

Senator Mir Mohammad Ali Talpur (mmatalpur@gmail.com)

Reko Diq, an ancient volcano in Chaghi, Balochistan, literally means sandy peak. This is something of a misnomer. It should be called Tangav Diq, or gold peak, because below the sands, according to development expert Syed Fazl-e-Haider, lie "12.3 million tons of copper and 20.9 million ounces of gold." There is a saying in Balochistan that a Baloch child may be without socks, but when he grows up every step he takes will be on gold. Reko Diq, Saindak, Sui all prove that the barefooted Baloch do tread on gold. That this wealth hasn't benefited them isn't accidental.

The interests of the Australian company in Reko Diq and its neighborhood were taken over by the Toronto-based Barrick Gold Corp and the Chilean Antofagasta Minerals. These companies were handed a very lucrative deal. The terms agreed upon show that there is more to the issue than meets the eye. Royalties were reduced from the initial four to two per cent. Terms for the provision of cost-free land for an airport and a 400 km Reko Diq-Gwadar road were accepted. An unjust clause is that a 25 per cent share will be paid to the Balochistan government but only after it invests 25 per cent in the project.

According to Rob Maguire of the Dominion paper, "Barrick is the foremost gold mining corporation in the world, with sales exceeding $2.6bn in 2005 and the largest reserves in the industry, at nearly 90 million ounces. They plan to mine gold under the Andean glaciers at Pascua Lama (Chile) and in order to process the ore there, Barrick will use 7,200 kg of cyanide and 10 million liters of water per day. Cyanide contamination of water resources can be devastating—cyanide concentrations as little as one microgram (one-millionth of a gram) per liter can be fatal to fish." The people at Pascua Lama are resisting Barrick`s operations.

Mining uses sodium cyanide, arsenic and other chemicals which produce toxic by-products. According to Marcel Claude, vice-president of the international environmental group Oceana, "Gold mining dumps 79 tonnes of waste for every 28 grams of gold, and produces 96 per cent of the world's arsenic emissions. On the same theme, Antonia Fortt, an environmental engineer, says that fears about cyanide are justified "because this chemical is used to separate the gold from the sterile material, rock and dust, and it comes mixed with it." Health problems directly linked with arsenic exposure include cancer, deformation, miscarriage and underweight children.

Antofagasta's net assets at the end of 2007 grew to almost $5bn. In December 2005 its release said "Tethyan's principal assets are a 75 per cent interest in the highly prospective Chagai [sic] Hills region of North West Pakistan known as Reko Diq, including the Tanjeel Mineral Resource. Total indicated and inferred mineral resource estimates at these properties are 1,213 million tonnes with a copper grade of 0.58 per cent and a gold grade of 0.28 grams per tonne. Estimates include probable reserves at the Tanjeel of 128.8 million tonnes with a copper grade of 0.7 per cent." Antofagasta is presently embroiled in a dispute with inhabitants near Chile`s largest copper mines, Los Pelambres, over water rights. Its new dam is cutting off valuable water supplies and poisoning them.

These predator corporations are bothered only about their hefty profits and they ride roughshod over all human, social and environmental concerns where they operate. They customarily disregard people and the environment in search of profit. They have outsourced services to Pakistani contractors such as Capital Drilling, Security 2000, Rak Mor Drilling, Zain Company and Zia and Brothers. In April 2008, Zain Company showed its brute force and terminated services of 40 drilling assistants and recruited novices and non-locals. The AZAT Foundation has tried to protect their rights, and on June 14, 2008 a well-attended demonstration was held outside the Quetta Press Club.

There are many advocates of such mega projects who claim that the Baloch have benefited from their trickle-down effect. Such logic reminds me of Ghalib's Persian couplet.

Sharminda-e-nawazish-e gardoon na manda amm

Gar chaak dokht, jamma ba mazd-e-rafoo girraft.

(Should I acknowledge the favor of his darning of a tear? If the very darner then robs me of the darned shirt I wear.)

These ruthless corporate predators along with conniving corrupt politicians and officials have scripted the requiem for Reko Diq. The people will end up poorer and the aquifers and the environment in general will be contaminated with cyanide, arsenic, etc with unremittingly grave consequences for the people.

Source: Daily Dawn, 30 September 2008 (abridged)

Mehran

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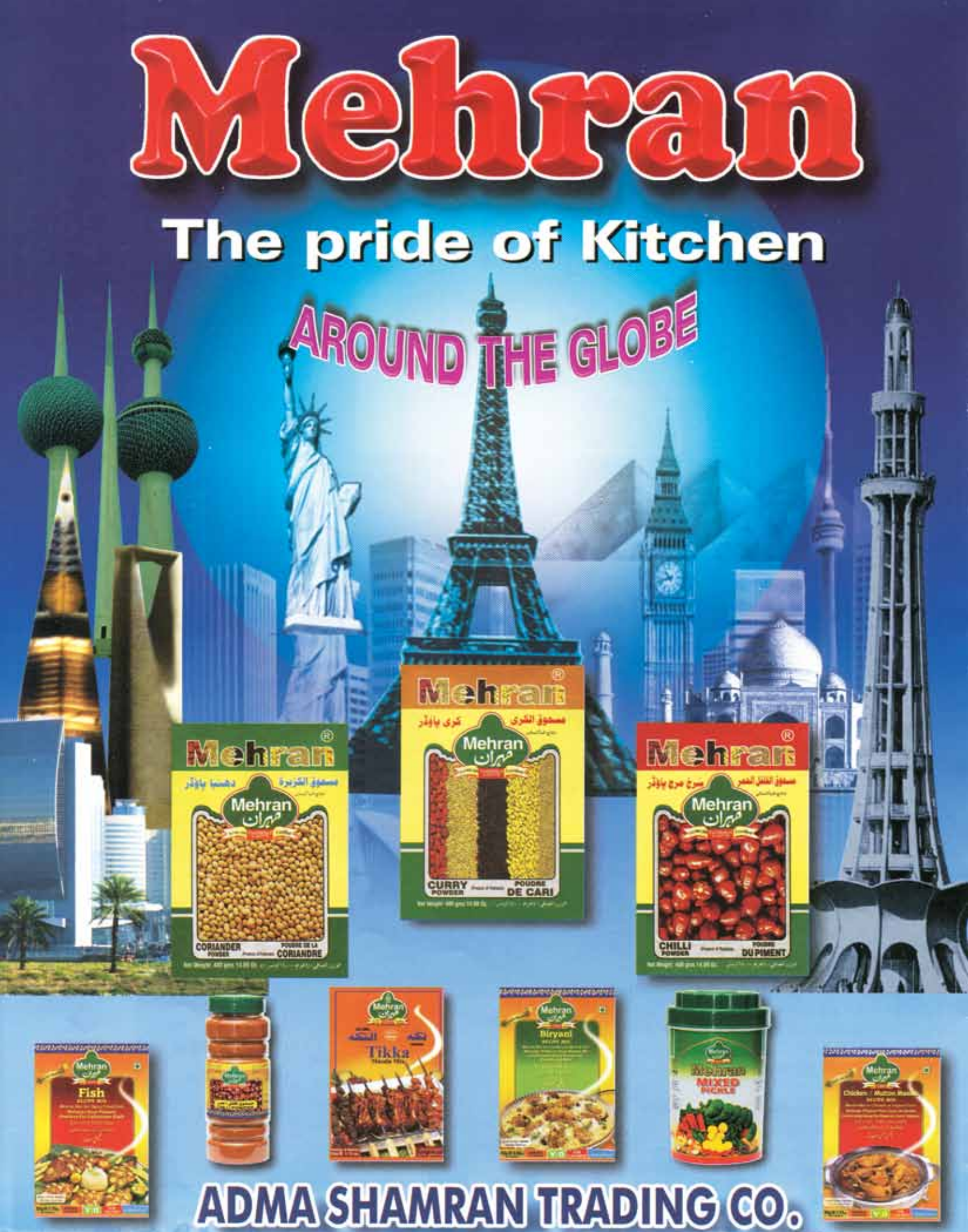

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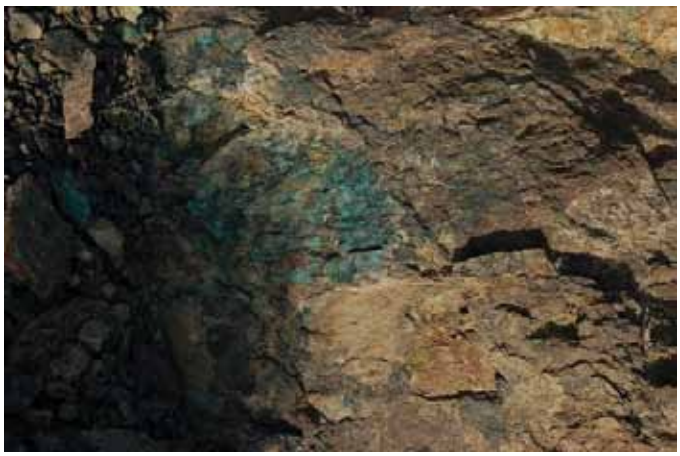
Saindak Copper/Gold Project: Who is the real beneficiary?

by

Syed Fazl-e-Haider

Condensed from Asia Times Oct 5, 2006



The Rs18 billion (US $297 million) Saindak copper-gold project in the Pakistani province of Balochistan has been run by a Chinese contractor on a 10-year lease without any independent monitoring for the past three years.

Higher-than-anticipated production of blister copper at the site in the Chaghi district may reduce the estimated 19-year life of the mine. If the rate of mining continues unchecked, the Chinese contractors will exploit all the resource within the 10-year lease period, leaving no copper or gold for Pakistan to mine from Saindak after the lease contract comes to an end. According to best estimates before the lease was signed, Pakistan should have nine more years for mining copper and gold from the Saindak project after the Chinese hand it back. But if there is nothing left to mine, Pakistan will be the ultimate loser.

Is the project really yielding a prudent return to Pakistan in the absence of any monitoring mechanism? Technical calculations and financial data need to be maintained about the project's return in terms of production and metal sales. Only on the basis of these data can one decide, who is the real beneficiary of the Saindak project, China or Pakistan?. Yet the Pakistani government has failed to find an independent monitor.

The Saindak project was based on estimated ore reserves of 412 million tonnes containing on average 0.5 gram of gold per tonne and 1.5 grams of silver per tonne. According to official estimates, the project has the capacity to produce 15,800 tonnes of blister copper annually, containing 1.5 tonnes of gold and 2.8 tonnes of silver. The reported production results, however, have generally remained on average more than 2,000 tonnes per month, which means that more than 24,000 tonnes per year is being mined.

The discovery of copper deposits at Saindak was made in the 1970s in collaboration with a Chinese engineering firm. The Saindak copper-gold project was set up by Saindak Metals Ltd (SML), a company wholly owned by the government of Pakistan, by the end of 1995 at a cost of Rs13.5 billion.

It was financed through Pakistani investment and guaranteed borrowings. The project was put on trial production during the period from August 1995 to January 1996, and it achieved the designed production capacity and quality. It produced 1,541 tonnes of blister copper containing 12 kg of gold and 198 kg of silver during trial operations, which were sold in the international market at a price of Rs. 280 million. The project was then shut down in February 1996 because of a lack of working capital.

When the Bank of America and ABN Amro, who had initially agreed to lend Rs15 billion as working capital against the guarantees of Islamabad, backed out of their commitment because of the economic sanctions that were imposed against Pakistan after its May 1998 nuclear tests, the project was once again thrown into abeyance. Then the Chinese contractors who had been involved with the project since its inception offered to take over the project's management. The Chinese proposals injected new life into the long-neglected project.

About Rs1.3 billion was put into the project in the late 1990s to revive the mine and the operation was leased to the Chinese company Metallurgical Construction Corp (MCC) for 10 years in September 2002. Pakistan and China signed a formal contract worth $350 million for the development of Saindak copper/gold project. Under the lease agreement, MCC was to run the project on an annual rent of $500,000 plus a 50% share of copper sales to the Pakistani government.

It is primarily a fault on the part of those drafting the lease contract with MCC that they neglected to identify and discuss the issues relating to excessive mining or a monitoring mechanism to check and evaluate the production from Saindak. A technical body for monitoring and evaluation of the production and export of copper, gold and silver at the Saindak project should have been constituted before the copper and gold assets were handed over to Chinese. At present, two non-executive directors of the Saindak board are responsible for monitoring activities. As they are based in Islamabad, it is not practical for them to monitor the project.

The Chinese, simultaneously the producers and buyers of Saindak copper, are pioneers in transferring technology in metal mining, mainly in copper. They face few problems since they built the whole plant. They are committed to train Pakistanis by offering them on-the-job training facilities. The Chinese companies prefer to import copper from Chaghi, which is currently meeting the Chinese demand. China's demand for copper has increased greatly because of rapid economic development and big expansion of infrastructure construction. Today China is a big market for Pakistani copper. Copper exports from Saindak began in 2004 when Pakistan exported copper worth more than $30 million to China during four months, from July to October.

Pakistan is also bearing the environmental costs of the projects, as the production of copper is a long and dangerous process. The smelting of the copper ore emits arsenic and carbon monoxide, which pollutes the air and water near the mines. The copper is heated at high temperatures several times before the metal is ready for export. The impact of copper production on the country's environment is bound to grow at an alarming rate in the next seven years of the lease contract. Most threatened is the atmosphere in the immediate vicinity of the copper mine.

FACTBOX: BALUCHISTAN

(Reuters) - Pakistan's Baluchistan province is rich in energy and mineral reserves but most are unexploited, mainly because of security worries, leaving the province's people behind the rest of the country in wealth. Here are some facts about Pakistan's biggest but poorest and least-populated province.

GEOGRAPHY AND DEMOGRAPHY

* Baluchistan is Pakistan's biggest province in terms of area, but with an estimated population of only 10 million to 12 million of the country's 165 million people.
* It shares borders with Iran to the west and Afghanistan to the north. To the south is the Arabian Sea. Quetta is the capital of the province, which has a fragile ethnic mix of Baluchis and Pashtuns.
* Pakistan's third port, built with Chinese help, is at Gwadar in Baluchistan.

ENERGY RESERVES AND INVESTMENTS

* Baluchistan is home to Pakistan's largest gas discovery at Sui, with gas reserves in excess of 10 trillion cubic feet, equivalent to 1 billion barrels of oil.
* With the lowest exploratory drilling density of all four provinces, Baluchistan could have major oil and gas reserves. Despite the lower exploration density, it has the second-highest gas reserves and production in Pakistan after Sindh.
* The province has enjoyed little success in commercial oil discoveries, and has the lowest share in oil production and reserves amongst the provinces.
* Some of the major foreign companies involved in oil and gas exploration in Pakistan are Britain's BP (BP.L), Italy's ENI (ENI.MI), Hungary's MOL MOLB.BU, Austria's OMV (OMVV.VI) and Malaysia's Petronas Carigali.

MINERALS

* Baluchistan has one of the largest copper deposits in the world. China's Metallurgical Construction Co. (MCC) operates the Saindak mine which has estimated ore reserves of 412 million tons.
* Tethyan Copper Co. Pakistan Ltd., a joint venture between Canada's Barrick Gold (ABX.TO) and Chile's Antofagasta Plc (ANTO.L), one of the world's largest copper miners, has been granted an exploration license for Baluchistan's Reko Diq site.
* The site's ore reserves, a mixture of minerals including gold and copper, are estimated at more than 4 billion tons. According to some estimates, Reko Dik has the fourth largest deposits of copper/gold in the world.
* The joint venture company, which has started a feasibility study, is planning multi-billion dollar investment over the next few years.
* In addition to metals, the province is also home to large deposits of marble, onyx and granite. According to industry officials, about 80 percent of the marble produced is exported to China.
* Officials say the Italian government has also expressed an interest in providing credit and grants for the upgrading of marble processing facilities in the province.

Source: Rueter, Wed Oct 14, 2009

Thar Coalfield

Condensed from *Wikipedia*, the free encyclopedia

The Thar Coal Field is located in Thar Desert, Tharparkar District of Sindh province in Pakistan. The deposits—fourth largest coal reserves in the world, were discovered in 1991 by Geological Survey of Pakistan (GSP) and the United State Agency for International Development.

Pakistan has emerged as one of the leading country: seventh in the list of top 20 countries of the world after the discovery of huge lignite coal resources in Sindh. The economic coal deposits of Pakistan are restricted to Paleocene and Eocene rock sequences. It is one of the world's largest lignite deposits discovered by GSP in 90's, spread over more than 9, 000 sq km comprising around 175 billion tones sufficient to meet country's fuel requirements for centuries.

Location and Accessibility

The Thar coalfield is approximately located between Latitudes 24º15'N and 25º45'N and Longitudes 69º 45'E and 70º 45'E in the southern part of Sindh Province in the Survey of Pakistan topo-sheet Nos. 40 L/2,5 and 6. Based on available infrastructure and favorable geology, the Geological Survey of Pakistan selected four blocks near Islamkot for exploration and assessment of coal resources. The blocks with names, area and coordinates are given in Table 1.

The area is accessible by a 410 kilometers metalled road form Karachi up to Islamkot via Hyderabad-Mirpur Khas-Naukot and Thatta-Badin-Mithi-Islamkot. A road network connecting all the major towns with Thar Coalfield have been developed. The rail link from Hyderabad is up to Naukot, which is about 100 kilometers from Islamkot.

Relief, Topography and Climate

Thar coalfield is a part of the Thar Desert of Pakistan, the 9th largest desert of the world. It is bounded in the north, east and south by India, in the west by flood plains of the Indus River. The terrain is sandy and rough with sand dunes forming the topography. The relief in the area varies between near sea level to more than 150 meters AMSL.

The climate is essentially that of an arid to semi arid region with scorching hot summers and relatively cold winters. It is one of the most densely populated deserts of the world with over 91 thousand inhabitants. The livelihood of the population is dependent on agriculture and livestock.

Water

The area is a part of the desert where precipitation is very little with a high rate of evaporation. As such, limited water resources are of great significance. The surface water is scanty and found in few small "tarai" and artificially dug depressions where rain water collects. These depressions generally consist of silty clay and caliche material. As to the ground water availability, hydro-geological studies and drill hole geology show the presence of three possible aquifer zones at varying depths: (i) above the coal zone (ii) within the coal zone and (iii) below the coal zone.

- One aquifer above the coal zone: Ranges between 52.70 and 93.27 meters depth.
- Second aquifer with the coal zone at 120 meters depth: Varying thickness up to 68.74 meters.
- Third aquifer below the coal zone at 200 metes depth: Varying thickness up to 47 meters.
- Water quality is brackish to saline.

Coal

The coal beds of variable thickness ranging from 0.20 – 22.81 meters are developed. The maximum number of coal seams found in some of the drill holes is 20. The cumulative thickness of the coal beds range from 0.2 to 36 meters. Clay stone invariably forms the roof and the floor rock of the coal beds. The coal is brownish black, black and grayish black in color. It is poorly to well cleared and compact. The quality of coal is better where percentage of clay is nominal.

Reserves

As a result of wide spread drilling over an area of 9000 km^2, a total of 175 billion tons of coal resource potential has been assessed. Detailed evaluation on four blocks

has the following results (Table 2):

The overburden consists of three kinds of material; dune sand, alluvium and sedimentary sequence. The total overburden is around 150 to 230 meters. The roof and the floor rocks are clay stone and loose sandstone beds.

Coal which is also named as black gold is found into huge quantities in Thar, Chamalang, Quetta and other sites. Thar reserves are estimated 850 Trillion Cubic Feet. There is enough coal in Pakistan Thar area (though a part of coal is not of good quality) that it can be used for power generation for next 100 years without relaying on other i.e. hydro/oil resources.

In March 2010, Engro Chemical announced that the group is investing huge amount of money to develop coal fields in Pakistan, however exact sum is unknown. The chemical company also announced to establish energy park in UET Lahore, and start research on in-situ coal gasification and high pressure transport gasifier

Table 1

S.No.	Name/Blocks	Area	Coordinates	
		(km^2)	Latitude	Longitude
1	Sinhar Vikian Varvai, Block-I	122.00	24° 35'N to 24° 44'N	70° 12'E to 70° 18'E
2	Singharo Bhitro, Block-II	55.00	24° 44'N to 24° 51'N	70° 15'E to 70° 25'E
3	Saleh Jo Tar, Block – III	99.50	24° 49'N to 24° 58'N	70° 12'E to 70° 18'E
4	Sonalba, Block – IV	82.50	24° 41'N to 24° 48'N	70° 12'E to 70° 20'E

Table 2

S.No.	Name/Blocks	Area	Reserves (Million Tonnes)			
		(km^2)	Measured	Indicated	Inferred	Total
1	Sinhar Vikian Varvai, Block-I	122.00	620	1,918	1,028	3,566
2	Singharo Bhitro, Block-II	55.00	640	944	-	1,584
3	Saleh Jo Tar, Block – III	99.50	413	1,337	258	2,008
4	Sonalba, Block – IV	82.50	684	1,711	76	2,471
	Total:	358.5	2,357	5,910	1,362	9,629

Khewra Salt Mines

Condensed from *Wikipedia*, the free encyclopedia

Khewra Salt Mines is a salt mine located in Khewra, Jhelum District, Punjab in Pakistan, about 160 kilometers (99 mi) from Islamabad and 260 kilometers (160 mi) from Lahore. It attracts up to 40,000 visitors per year and is the second largest salt mine in the world. Situated in the foothills of the Salt Range, the Khewra Salt Mines are the oldest in the South Asia.

Salt has been mined at Khewra since 320 BC following discovery by Alexander's troops, in an underground area of about 110 square kilometers (42 sq mi). The main tunnel at ground level was developed by Dr. Warth in 1872 but has since been converted into a tourist resort. Khewra salt mine has estimated total of 220 million tonnes of rock salt deposits. The current production from the mine is 465,000 tons salt per annum.

The mine-head buildings have 19 stories, with 11 below ground. Only 50% salt is extracted and 50% is left as pillars to support the mountain. The salt-mine is 288 meters (945 ft) above sea level and extends around 730 meters (2,400 ft) inside the mountains from the mine-mouth. The cumulative length of all tunnels is more than 40 kilometers (25 mi).

Salt occurs in a Precambrian deposit in the form of an irregular dome-like structure. There are seven thick salt seams with a cumulative thickness of about 150 meters. At places the rock salt is 99% pure. Salt is transparent, white, pink, reddish to beef-color red. There are beautiful alternate bands of red and white color salt.

Discovery of the mine

It is said that when Alexander visited South Asia, coming across the Jhelum and Mianwali region, Khewra Salt Mines were discovered. The discovery of the mines, however, was not made by Alexander nor his "allies", but by his horses. It is stated that when Alexander's army stopped here for rest, the horses started licking the stones. One of his soldiers took notice of it and when he tasted the rock stone, it was salty thus leading to the discovery of the mines.

Afterwards, this mine was wholly purchased by a local Raja and from that era to Independence of Pakistan this mine remained property of locally living Janjua Rajas who were sons of Raja Mal

Tunnel design and layout

The current design and layout of the tunnels inside the mines was prepared by Chaudhry Niaz Ali Khan, a professional civil engineer then serving as Sub-Divisional Officer in the Mines Department, in the first quarter of the 20th century. From 1896 to 1900, Chaudhry Niaz Ali Khan studied engineering at The Thomason College of Civil Engineering (formerly Roorkee College, which became the University of Roorkee in 1949 and remained so until 2001 when it became the Indian Institute of Technology Roorkee), earning a degree in civil engineering.

Miners' resistance to the British

In March 1849, the British captured the salt mines and a resistance movement began against the poor conditions and prices imposed upon the miners

From 1849-62 there were strikes which were heavily suppressed and in 1872, new methods of measurement and pricing were introduced which increased workload. Mines were locked so miners couldn't leave without fulfilling their quotas. Men, women and children all worked in the mines and some children were even born in the mines due to the conditions imposed.

Further strikes were carried out by the workers from 1872-76. This time, the Chief Mine Engineer Dr. Warth got Delhi Head Office Collector H Wright to bring in British soldiers. Twelve of the workers representatives were shot at the front of the mines. Their graves are still outside the middle gates of the mines.

A small Mosque made of salt bricks inside the Khewra salt mines complex.

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- 1,000 highly experience workforce
- Own fleet of cranes up to 750 Tons
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- Earth work & Pavement Placing 30000M /Day

Lines of Business

- Civil & Infrastructure
- Plant Maintenance & Turnarounds
- Manufacturing
- Specialized Services for Oil Purification & Filtration
- Fabrication & Erection
- Industrial & Power Projects
- Technical Manpower Services

2010-Milestones Achieved

- Successful completion of Ma'aden Magnesite Mine Facility Zarghat & Process Plant Project Madina KSA, General civil works.
- Successful completion of Riyadh Power Plant- No.10 KSA, piping & fire fighting scope.

2011 Targets

- Development of ASME accredited 14,000 SQM Manufacturing facility to handle piping, pressure vessels, boilers & heat exchangers etc.
- Shifting to new office with corporate facilities for 100 seating
- Secure maximum number of jobs for Plant Maintenance & Turn Around





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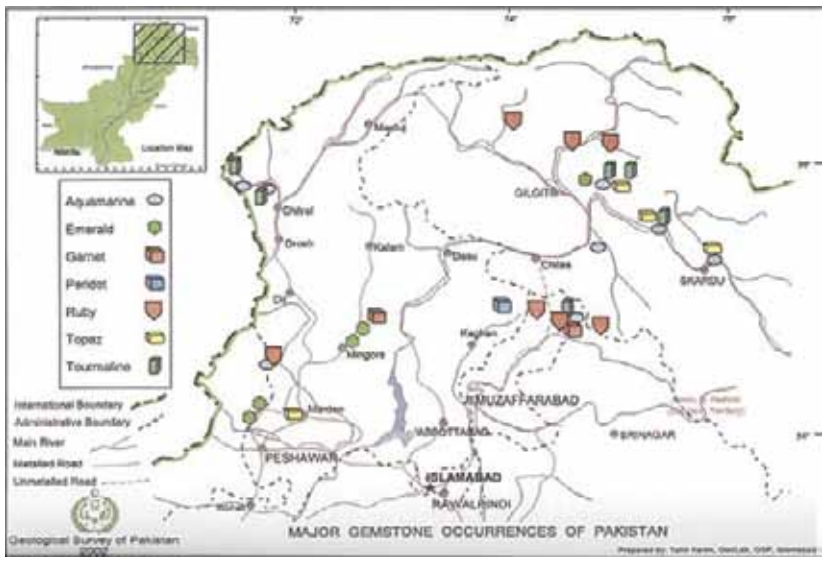
Gemstone and Mineral Mining in Pakistan's Mountains

Condensed from InColor Spring 2008 edition published by the International Colored Gemstone Association (ICA)



by Jim Clanin, geologist and gem mining expert

Jean Claude Michelou, ICA's former vice president and current chairman of the Social Responsibility Committee and director of communication, invited geologist and gem mining expert Jim Clanin to assess the gemstone mining situation in northern Pakistan as well as making recommendations for the improvement of working conditions and mining techniques regarding high-altitude gem deposits. The following article is an excerpt from Clanin's report and recommendations that followed his visit to the area in the summer 2007 which relate to human conditions and environmental issues.

I went on a reconnaissance trip in July 2007 to evaluate the various gemstone mining areas in the Federally Administrated Northern Areas of Pakistan. The trip was limited to the Gilgit, Skardu and Astore districts due to time and security. Gemstones and minerals have been produced in this mountainous region of Pakistan for nearly 40 years. Mountainous regions are geologically active areas that expose a greater amount of rock outcrops and give prospectors an advantage in locating gem and mineral deposits. They also give rise to numerous logistical problems, some of which are extreme.

The Himalayas are the youngest mountain range in the world, and their pegmatites, which contain a variety of gemstones, are only a few million years old. This region has the greatest vertical differences found anywhere in the world as well as the world's seven highest peaks. At Nanga Parbat, in Astore, the mountain peak is more than 20,000 feet above the valley floor. Tourmaline, aquamarine, topaz, garnet and apatite come from granitic pegmatite deposits, while emeralds, rubies and sapphires come from metamorphic and hydrothermal deposits that tend to be regional and cover a larger area.

Prospecting in a region with near vertical cliffs that rise 3,000 to 4,000 feet or higher is a nightmare. Mining a deposit in an environment like this is even worse. At such elevations, pockets are practically always frozen, internal combustion engines do not operate, the air pressure is too low for pneumatic equipment, and the mining season is generally very short.

A high-altitude gem-mining platform in Pakistan. (Photo: Vince Pardieu, ICA/ fieldgemology.org)

The granitic pegmatites of these areas produce a vast assortment of gem minerals, but it is difficult, if not impossible, to predict in advance what their production will be like. Even though the mineralogy might dictate the presence of colored tourmaline pockets, for example, the quality of the contents may be worthless. Most gem mines are operated by hobbyists or worked by small groups of artisanal miners using the most basic methods mainly in remote places. In many locations, everything must

Miners camp at Chumar Bakhoor overlooking Hunza valley.
(Photo: Jim Clanin)

be carried up either on horseback (or donkey) or by the miners themselves.

Before we attempted to visit any mine workings we met with groups or associations of miners. We explained our mission to the people of each area and were usually given a guide to take us to mine sites. We had almost no problems gaining the trust of the miners, and were able to visit many different workings. We had to turn down some mines due to their inaccessibility or dangerous conditions.

The mining season in the areas we visited depended on the altitude of the deposits. In some areas the work window is from June to September or October, and in others it might be from July to October. Some miners work the higher elevations in the summer and then move to the lower elevations during the winter, so they can mine year-round.

Rubies of the Hunza Valley

The ruby-bearing host rocks in Pakistan are part of the Baltit group sequence and are contained in the Karakorum metamorphic belt north of the main Karakorum thrust. This meta-sedimentary unit can be traced from the Afghanistan border to the Indian border.

We visited six sites in five days in the Hunza Valley area that produce or have produced ruby. These workings are located right on the Karakoram highway on the east side of the Hunza river.

One recent discovery near the village of Bisil in the Basha Valley has the same mineral assemblage as the deposits in Hunza valley more than 100 kilometers to the west. Based on the geology and mineral assemblage at each locality the Bisil discovery is probably an eastern section of the same carbonate shelf that formed during the Eocene in the Tethys basin.

Ganesh was the northernmost spot we visited, with workings on the east side of the Hunza river. Just across the river from Ganesh, Global Mining Corp. is beginning to mine ruby-bearing marble at Gupa Nala. Another deposit is located just above the village of Aliabad. The Dhorkan

Accessing the ruby deposits of the Hunza Valley in Northern Pakistan.
(Photo: Jim Clanin)

workings, south of the Aliabad and Hachinder workings, are the southernmost that we visited.

Many of these deposits have the same general kinds of minerals: phlogopite, margarite and muscovite micas, zircon, spinel, magnesium tourmaline, pyrite, rutile and graphite, all of which are hosted in marbles.

Other than Global Mining Corp., we did not meet any other miners working these ruby deposits. But we could see and smell signs that explosives had been used recently, probably illegally. This is an extensive, continuous regional mineral deposit that a corporation might well be interested in working, as the presence of Global Mining Corp. indicates.

Most of the workings we visited were excavated by the Pakistan Mineral Development Corporation in the early to mid-1970s. A report on the project from 1978 states that the producing marble deposit is 2,100–3,000 meters thick and extends 25 km on strike. The average carats per ton of ruby, sapphire and red spinel from eight samples is given as 16.68 carats/long ton, with a net reserve of 161,227.97 long tons, or approximately 537.8 kg of gem material. However, there were too few samples in too few areas to come up with reliable statistics on reserves.

Pegmatites

The pegmatites of Chumar Bakhoor belong to a well-organized miners' association in the village of Sumayar. This association allows 55 groups of six men each to work the pegmatites, and the money made benefits the entire village. Since these pegmatites are all found within a small area at an elevation of around 4,800 meters, the working season is from late July to sometime in October.

The pegmatite of the Bulachi area, lies between the

village of Shengus and Astak on the Gilgit-Skardu road. The pegmatite swarm in this area includes deposits along the Indus river, the area around Haramosh, the Stak Nala mines, and the mines within the Astore district on the south bank of the Indus river. At Stak Nala the pegmatites are lithium rich (LCT-type) and produce multicolored tourmalines rather than black ones. It was rumored that colored tourmaline had been found somewhere in Astore district, which would indicate that more LCT-type pegmatites have been discovered.

Along the Indus River, pegmatites that are being worked are visible for about 7 km on the opposite bank of the river from the road running east from Shingus. A few workings are to be seen on the side of the river with the road, all placed so that rock will not fall on the road. These are granitic pegmatites that produce aquamarine, black tourmaline, topaz, apatite and garnet. There are reported to be hundreds of these pegmatites, many of which are located on near-vertical faces of the mountains, so that miners must rappel down on ropes to gain access. Four villages own the pegmatites on the south side of the Indus river, and some 400-500 miners have been working the area for 14–15 years.

Another mining site we visited was at the base of Haramosh near the village of Shah Toot. Here the pegmatites are spread out so that few workings are visible from the village. The only workings we were allowed to see consisted of a shallow open pit in a vertical pegmatite. Unlike the other workings we visited, this dump showed no sign that pockets had ever been found there, although the locals said the small hole had yielded 1.5 million Pakistani rupees worth of goods (about $25,000). They said there are more than 200 mines in their region, and they have been working them for about 20 years.

A breathtaking cliff at a gem deposit in Pakistan.
(Photo: Vince Pardieu, ICA/ fieldgemology.org)

Due to global warming, the glaciers in the area have been receding and exposing more areas for prospecting. Our guide from Shah Toot told us the Mani glacier has receded several miles and exposed new sites high up in the mountains. I believe these pegmatites are part of the same Bulachi pegmatite swarm, but the frequency of the pegmatites is far lower at Haramosh.

The mines of Stak Nala are supposed to belong to the village of Tookla, but the locals say that many outsiders dig there. These are LCT-type granitic pegmatites that produce tri-colored tourmaline, a highly valuable mineral. The locals say there are 40 mines in the area. The Gemstone Corporation of Pakistan (GCP) worked Stak Nala systematically in the 1980s, and when it left it blasted the tunnels it had used closed. Only one is open today, presumably reopened by the local miners. They say they would like to work the tunnel, but more of it caves in each time they blast. I suggested building rock walls to shore up the walls, which appear to be highly fractured due to past over-blasting by the GCP.

The pegmatite swarm of the Shingar, Braldu and Basha valleys, unlike that at Chumar Bahkoor, is spread out over an area of about 150 square km. There are no trails leading to producing areas, only to isolated pegmatites or mines. The morning we awoke in Dassu, we could hear blasts from mining all over the mountains on both sides of the river, starting at 6: 30 am and lasting all day.

Mining dumps rise from the river level to the top of the mountains, some 3,000 meters overhead. Some mines appear to be holes in the mountainside without dumps, since the slope is nearly vertical. We talked with officials of the Baltistan Gem and Mineral Association in Skardu, who are trying to organize the miners in these valleys. The association took a survey in 2003 and found that 4,500 households are involved in mining in this region. Each household has from three to 10 people involved directly in mining, so this area has the largest number of miners of any we visited.

It was rumored that colored tourmaline had recently been discovered somewhere in the mountains around Dassu. One mine we saw had flawless quartz and topaz in the dumps, as well as pocket feldspar and micas. We had a group meeting with miners in Dassu, who said that there are 200 groups of men working there year-round, some in tunnels 150 to 180 meters deep. In these longer tunnels they blast once and then quit for the day, letting the tunnel air out overnight. To the west of the Braldu valley lies the Basha valley. This is the western portion of the same pegmatite swarm. There are fewer deposits than to the east in the Braldu valley. Near the village of Sibibi, we were shown a working pegmatite which required a rope to reach.

Health, Safety and the Environment

According to the Pakistani government, none of the country's mineral-producing areas have ever enjoyed modern mining equipment, safety standards or the expertise of mining engineers. Currently, most Pakistani miners use Chinese-made, gasoline-powered rock drills both on the surface and underground. There is no ventilation, and miners say they only stop work when they

can no longer light a fuse due to either a lack of oxygen or air pollution. All of the approximately 40,000 miners in northern Pakistan complain of lung problems from both silicosis and carbon monoxide poisoning. However, the leading causes of death in this extreme environment are being buried under rock falls or falling from a perch on a sheer cliff face.

The ruby deposits of the Hunza valley and other lower elevation deposits can be worked with pneumatic equipment, thus eliminating the dust and carbon monoxide problems. But in the Bulachi area pegmatites and those of the Shingar, Basha and Braldu valleys, the miners are stuck using the gasoline-powered drills due to the extreme inaccessibility of the deposits and/or the elevation. Miners literally hang from ropes on near-vertical cliff faces and use the gasoline-powered drills while dodging falling rocks.

I do not believe that the impoverished miners will ever stop mining and wait for the necessary improvements. But some things could be done immediately. Disposable dust masks are necessary, but are not available in the region. Large quantities should be on hand for quick and easy replacement; otherwise, the miners will try to reuse the old contaminated filters.

Conventional ventilation systems do not work in this mining environment. A machine that is lightweight, easily transportable and repairable, human-powered and can be produced in Pakistan could be easily designed. This machine should be able to push air at least 90 meters, with an ideal capacity of 150 meters. To alleviate the carbon monoxide poisoning problem, a standard 7.5 meter extension should be added to the drills' exhaust port that would carry the fumes away from the operator.

Drilling and blasting techniques also must be improved. I was told that the miners drill one to three holes in a round to be blasted and are lucky if they make 30 cm of tunnel a day. The holes are no deeper than 45 cm, and the miners use a petrol drill suitable for drilling vertical holes, not horizontal ones. They need to drill more horizontally and use a drilling pattern to improve breakage and do less damage to any pocket in the vicinity. People should also be trained in basic first aid for emergencies, as well as extreme mountain climbing techniques. Mountain climbing equipment should be made available to the miners.

Gemstones for the Benefit of Local Residents

The government of Pakistan would like to lease all its gem deposits to corporations and take the production out of the hands of the locals. Regional deposits are believed to be suitable for corporations, but the pegmatitic deposits should remain in the hands of the local villagers who currently operate these mostly inaccessible and unpredictable deposits. In some areas, there were well-organized miners' associations, while in others there was little organization, and in still others the locals had no idea what was being mined in their own backyard.

Each mining area should create its own miners' association which must be able to respond with rescue teams to dig out miners trapped by cave-ins or other disasters, and transport them to hospital. They could also be distributors of personal protective equipment like replacement dust masks, that would serve as the point for miners to sell their goods to the brokers, thus improving their profit or income opportunities.

For example, Sumayar village needs a common selling place where miners could deposit their specimens and brokers and buyers could view and buy them. Having an auction once a year near the end of the mining season pitting one broker against another would help improve local price levels. Whatever doesn't sell would go to the Sumayar mineral store where specimens and gems could be negotiated, at reasonable prices, by visiting dealers and buyers on a "cash and carry" basis instead of a promise to pay great sums later.

Source: http://www.palagems.com/clanin_pakistan.htm.

Beryl var. Aquamarine from Shigar Valley, Skardu, Gilgit District, Pakistan. Priced at $4500 in the international market.

Forsterite var. Peridot from Kohistan District, Pakistan. Priced at $3500 in the international market.

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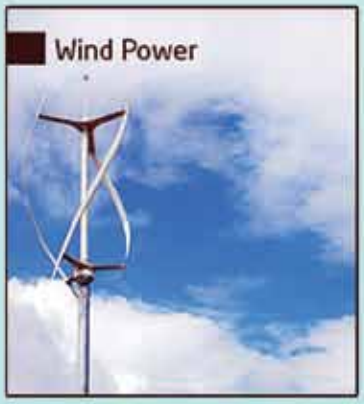

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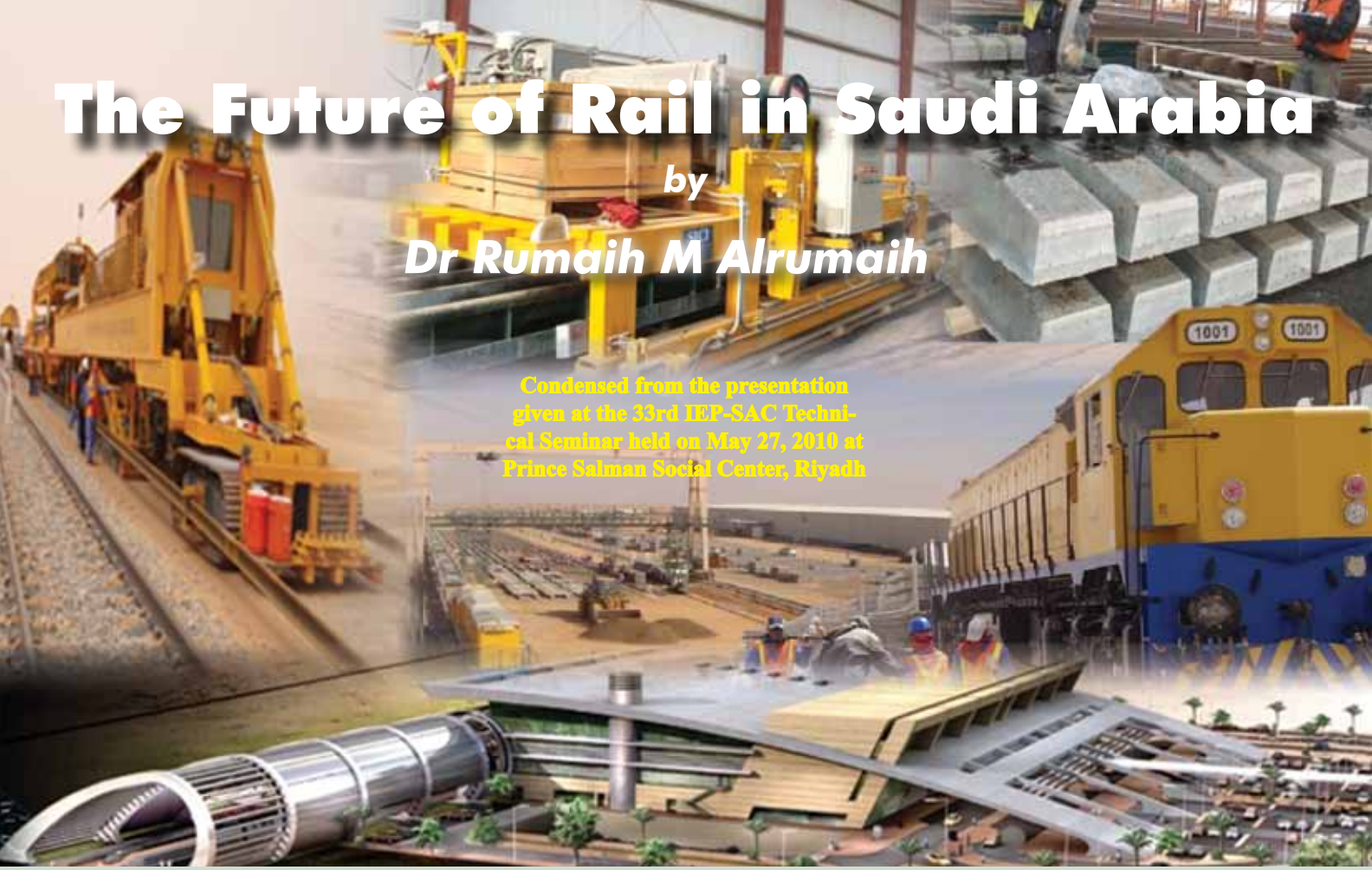
The Future of Rail in Saudi Arabia

by

Dr Rumaih M Alrumaih



Condensed from the presentation given at the 33rd IEP-SAC Technical Seminar held on May 27, 2010 at Prince Salman Social Center, Riyadh

OVERVIEW

I. Background
II. Technical Aspects
- *North-South Railway (SAR)*
- *Haramain High Speed Railway (HHR)*
- *Land Bridge*

III. Financial & Regulatory Aspects
- *Financial Models*
- *Regulating The Industry*

Saudi Arabia - New Rail Construction of 3,900 Kilometers

THE KINGDOM OF SAUDI ARABIA RAILWAY EXPANSION PROGRAM

North South Railway - SAR Network

Mineral Line: 80 km/hr - Al Jalamid to Ras Az Zawr (1,486 route kilometers)

Initial Focus on Confirmed Mineral Resources : Al Jalamid Mine - Phosphate; Az Zabirah Mine - Bauxite

Passenger Service: 200 km/hr - Riyadh to Al Haditha (1,418 route kilometers)

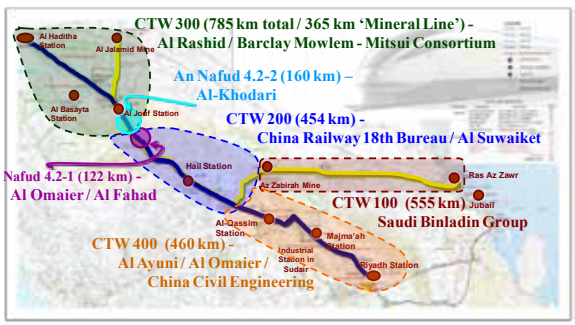
Riyadh to Ha'il : passenger stations at King Khalid International Airport, Majma'ah, Qassim, and Ha'il

Ha'il to Al Haditha (Jordanian Border) : passenger stations at Al Jouf and Al Haditha

Saudi Railway Company (SAR)

Financed by the Public Investment Fund (PIF) of the Ministry of Finance

North South Railway Active Construction Contracts



Great Wall of China
*constructed of masonry, rocks and packed-earth.
*6,700 kilometers (4,163 miles) long
*average dimensions 6 meters (18 feet) wide
and 8 meters (25 feet) high

volume 322 million m³

SAR volume of earthwork 497 million m³
=1.5 Great Wall of China

Current Plans for 6 Passenger Stations

- RIYADH
  (King Khalid Airport)
- MAJMA'AH
- QASSIM
- HA'IL
- Al JOUF
- AL HADITHA

Passenger Trains

Haramain High Speed Railway (HHR)

Phase 1, Part 1 - 440 km Railway Route - civil works (signed March 2009)
[Mecca to Medina, passing thru King Abdulaziz International Airport in Jeddah]

Phase 1, Part 2 - Five Passenger Stations
(design contract awarded April 2009)

- Mecca Central
- Jeddah Central
- Jeddah International Airport
- King Abdullah Economic City (Rabig)
- Knowledge Economic City (Medina)

Phase 2 - Railway Tracks, Signals & Telecommunications, Operations & Maintenance

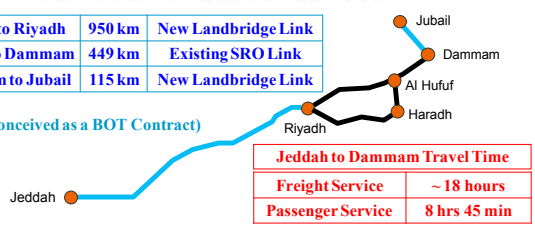
Saudi Railways Organization (SRO)

Saudi Landbridge Project - Jeddah to Dammam

First Rail Connection between the Red Sea and the Gulf...

Jeddah to Riyadh	950 km	New Landbridge Link
Riyadh to Dammam	449 km	Existing SRO Link
Dammam to Jubail	115 km	New Landbridge Link

(Initially conceived as a BOT Contract)



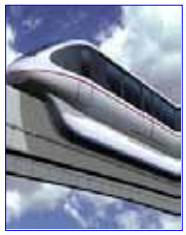
Jeddah to Dammam Travel Time	
Freight Service	~18 hours
Passenger Service	8 hrs 45 min

- Freight / Container traffic anticipated to reach 700,000 TEU's
- Upgrade of existing SRO Lines, including ETCS Signalling

Saudi Railways Organization (SRO)

Mecca Monorail Project

China Railway Corporation
US $1.8 billion Contract signed 10 February 2009



Elevated tracks linking Mecca Holy Sites:

- Mina
- Arafat
- Muzdalifah

20 km Line - Intended to carry up to 90,000 passengers / hour
35% of capacity expected to be available in time for the 2010 Hajj

Municipal & Rural Affairs Ministry

Light Rail Transit (LTR) Project - Riyadh

Phase 1 - 25 kilometer route including 22 stations
[North Ring Road to Olaya Road & Batha Street to South Ring Road]

Phase 2 - 14 kilometer route including 11 stations
[East Ring Road across King Abdulaziz Road and west to King Khalid Road]

Jurisdiction of ArRiyadh Development Authority (ADA)
Construction initiated in late 2009

Service Capacity - 8,000 to 12,000 passengers per direction per hour

Environmental & Operational Challenges

Sand Dunes

- NSR Alignment crosses significant areas of desert and moving sand dunes.
- Deserts are generally characterized by the severity of the blowing sands.
- Issue of contamination into the ballast layer (creates impact on System Elasticity of the track structure).
- Designers can only minimize the problems associated with blowing sands by understanding the movement of sand and applying techniques that have been tested and found to be successful.

Sand Dune Mitigation

- Provision of sand trap (containment) areas along the top of slope at cut sections
- Applying layers of cohesive material on embankments as a protection layer against erosion
- Use of sand fencing to control the advance of blowing/drifting sand
- Program of continual maintenance is required for sand control

Sabkha Areas

Sabkha … Arabic term that describes a composition of sand deposits mixed with silt and clay, with the presence of salt

- Always refers to saline, puffy, crust-surfaced flat basins with the presence of water
- Coastal Sabkhas are found in the Eastern Province of Saudi Arabia in low-lying plains; Inland Sabkhas present in the northern regions of Saudi Arabia
- Special attention is required for construction due to the presence of water
- Issues of reduced load carrying capacity and settlement

Sabkha Mitigations

- Use of Geotextiles in the construction of Railway on sabkha subgrades
- Using rock fill for embankment under the sub-grade, ballast and sub-ballast
- Pre-Loading (apply additional temporary loads) …time consuming process
- Soil replacement
- Mechanical Compaction (stone / sand columns)

Heat

- Due to high temperature in Saudi Arabia, especially during summer (recorded temperatures have exceeded 80 C) and readings from balises will be effected. For that reason Balises were equipped with covers (Shadow) to reduce temperature and assure their functionality.

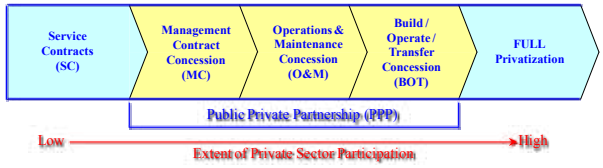
Balise without shadow

Balise with shadow

Financial & Regulatory Aspects

Public Private Partnership Strategies

Private Sector Participation affords the following :
- Competition (lower prices)
- Efficiency
- Flexibility and Transparency (less government)
- Financing
- Liability (shifting of risk to the private sector)

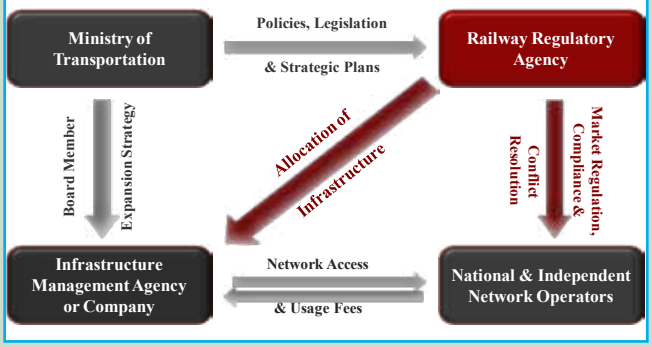


Privatization successful in a variety of applications :
- Municipal Services
- Airports
- Electrical Transmission
- Telecommunications
- Saudi Arabia's Economic Cities

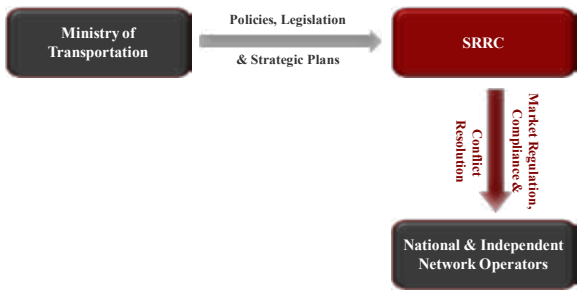
- **North South Railway** - Managed by Saudi Railway Company (SAR)
  - SAR wholly owned by the Public Investment Fund (PIF)
  - FIDIC Contracts - Project Duration (Initially 5 years)
  - Project divided into packages:
    - Early Action Earthworks - Civil and Trackworks
    - Signalling & Telecommunications - Stations & Yard Facilities
    - Rolling Stock (Freight & Passenger) - Operations & Maintenance
- **Haramain High Speed Line** - Managed by Saudi Railways Organization (SRO)
  - Financed by the Public Investment Fund (PIF)
  - FIDIC Contracts - Project Duration (Initially 3 years)
  - Project divided into packages:
    - Phase 1, Part 1: Civil & Earthworks - Part 2: Passenger Stations
    - Phase 2: Railway Tracks, Signals & Telecommunications
    - Operations & Maintenance Concession (12 Years)
- **Saudi Landbridge** - to be Managed by Saudi Railways Organization (SRO)
  - Initially conceived as a Build, Operate, Transfer (BOT)
  - Currently under Review

Regulating the Industry

Global Models - National Railway Structure

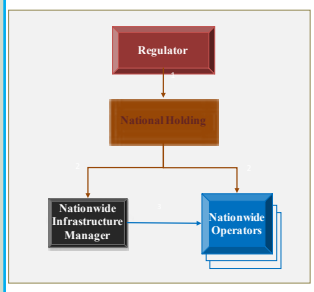


Saudi Arabia – Current Model

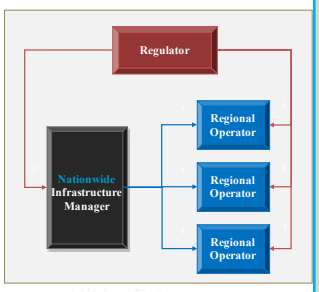


Saudi Railway Regulatory Commission (SRRC) is the regulator and the Infrastructure owner

Regulation Options for Saudi Arabia



Option # 1



Option # 2

Rumailh Alrumaih holds a Ph D in Electrical Engineering from the University of Colorado, Boulder, USA, as well as an MBA from the University of Leicester, UK. He worked in teaching and research areas for several years. Before joining the private sector, he worked in leading positions contributing to strategic business developments. In July 2008, Dr. Alrumaih joined Saudi Railway Company (SAR) as a Deputy CEO for Operations. On June 2010, he became the Chief Executive Officer (CEO) of SAR.

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Disaster/Emergency Management

By

Engr S M H Kirmani

Disaster is a sudden adverse or unfortunate extreme event which causes great damage to human life as well as to infrastructures and economy of a country. A variety of factors can cause emergencies, such as natural disaster, terrorism, industrial accidents, and computer viruses. Emergency/Disaster Management is the managerial function charged with creating the framework within which communities reduce vulnerability to hazards and cope with disasters. An effective Emergency/Disaster Management program relies on a thorough integration of Disaster plan at all levels of the organization and an understanding that the grass-root level extends the required cooperation.

Emergency/Disaster Management protects communities by coordinating and integrating all activities necessary to build, sustain and improve the capability to prevent from, mitigate against, prepare for, respond to, and recover from threat and or actual natural disasters, acts of terrorism, or accidental hazards. The aim is to promote safer, less vulnerable communities with the capacity to cope with hazards and disasters.

The conceptual framework for Disaster/Emergency Management continues to be developed in coordination and cooperation with the representatives from the US Federal Emergency Management Agency (FEMA), the US National Environmental Management Authority (NEMA) and the International Association of Emergency Managers (IAEM) [formerly the US Civil Defense Council and later the National Coordinating Council of Emergency Managers (NCCEM)]. The 2010 edition of US National Fire Prevention Agency (NFPA) Standard 1600 for Disaster/Emergency Management and Business Continuity expanded the conceptual framework for disaster/emergency management to include “Prevention” as a distinct aspect of the program. The revised aspect of the program is grouped and aligned to, “PLAN, DO CHECK, ACT (PDCA)” cycle. The five major aspects to be enforced are:

i) Prevention

ii) Mitigation

iii) Preparedness

iv) Response

v) Recovery

The Emergency/Disaster Management is a strategic process and not a tactical process, thus it usually resides at the executive level in an organization.

Hazard Identification

The hazard identification should include the following types of potential hazards [1].

(1) Naturally occurring hazards that can occur without the influence of people and have potential direct or indirect impact on the entity (people, property, the environment) such as the following:

a) Geological hazards (does not include asteroids, comets etc.):

i) Earthquake

ii) Tsunami

iii) Volcano

iv) Landslide, mudslide, subsidence

v) Glacier, iceberg

b) Meteorological hazards

i) Flood, flash flood, tidal surge

ii) Drought

iii) Fire (forest, range, urban, wild land, urban interface)

iv) Snow, ice, hail, sleet, avalanche

v) Windstorm, tropical cyclone, hurricane, tornado, water spout, dust/sand storm

vi) Extreme temperature (heat, cold)

vii) Lightning strikes

viii) Famine

ix) Geomagnetic storm

c) Biological hazards

Emerging diseases that impact humans or animals [plaque, smallpox, anthrax, West Nile virus, foot and mouth disease, SARS, pandemic disease, BSE (Mad cow disease), malaria, etc.].

(2) Human-caused events such as:

a) Accidental

i) Hazardous material (explosive, flammable liquid, flammable gas, flammable solid, oxidizer, poison, radiological, corrosive) spill or release

ii) Explosion/fire

iii) Transportation accident

iv) Building/structure collapse

v) Energy/power/utility failure

vi) Fuel/resource shortage

vii) Air/water pollution, contamination

viii) Water control structure/dam/levee failure

ix) Financial issues, economic depression, inflation, financial system collapse

x) Communication system interruption

xi) Misinformation

b) Intentional

i) Terrorism (explosive, chemical, biological, radiological, nuclear, cyber)

ii) Sabotage

iii) Civil disturbance, public unrest, mass hysteria, riot

iv) Enemy attack, war

v) Insurrection

vi) Strike or labor dispute

vii) Disinformation

viii) Criminal activity (vandalism, arson, theft, fraud, embezzlement, data theft)

ix) Electromagnetic pulse

x) Physical or information security breach

xi) Workplace violence

xii) Product defect or contamination

xiii) Harassment

xiv) Discrimination

(3) Technological caused events that can be unrelated to natural or human-caused events, such as:

i) Central computer, mainframe, software or application (internal/external)

ii) Ancillary support equipment

iii) Telecommunications

iv) Energy/power/utility

Principles

In March 2007, FEMA convened working groups of Emergency/Disaster Management practitioners and academics to consider the principles of Emergency/Disaster Management. The group agreed on eight principles that will be used to guide the development of a doctrine of "Emergency Management". The eight principles are as follows [2]:

1. Comprehensive—emergency/disaster managers consider and take into account all hazards, all phases, all stockholders and all impacts relevant to disasters.
2. Progressive—emergency managers anticipate future disasters and take preventive and preparatory measures to build disaster-resistance and disaster-resilient communities.
3. Risk-driven—emergency managers use sound risk management principles (hazard identification, risk analysis and impact analysis) in assigning priorities and resources.
4. Integrated—emergency managers ensure unity of effort among all levels of government and all elements of a community.
5. Collaborative—emergency managers create and sustain broad and sincere relationships among individuals and organizations to encourage trust, advocate a team atmosphere, build consensus and facilitate communication.
6. Coordinated—emergency managers synchronize the activities of all relevant stakeholders to achieve a common purpose.
7. Flexible—emergency managers use creative and innovative approaches in solving disaster challenges.
8. Professional—emergency managers value a science and knowledge-based approach based on education, training, experience, ethical practice, public stewardship and continuous improvement.

It has long been held that the cycle of Emergency Management must include long-term work on infrastructure, public awareness, and even human justice issues [3].

Incident prevention

A strategy plan should be developed to prevent an incident that threatens people, property, and the environment. The prevention strategy shall be based on the information obtained from its system to monitor the identified hazards and to adjust the level of preventive measures to be commensurate with the risk, the vulnerability of people, property and the environment.

Mitigation

Mitigation strategy includes efforts and measures to be taken to limit or control the consequences, extent or severity of an incident that cannot be reasonably prevented. As such, this strategy shall include interim and long-term actions to reduce vulnerability.

A precursor activity to the mitigation is the identification of risks. Physical risk assessment refers to the process of identifying and evaluating hazards [4]. The hazard-specific risk (R_h) combines both the probability and the level of impact of a specific hazard. The equation below states that hazard multiplied by the population's vulnerability to that hazard produces a risk catastrophe modeling. The higher the risk, the more urgent the hazard specific vulnerabilities are targeted by mitigation and preparedness efforts. However, if there is no vulnerability there will be no risk, e.g. an earthquake occurring in a desert where nobody lives will not produce any problem.

$$R_h = H \times V_h$$

Preparedness

Preparedness is a continuous cycle of planning, training, equipping, exercising, evaluation and improvement activities to ensure effective coordination and enhancement of capabilities to prevent, protect against, respond to, recover from, and mitigate the effect of natural disaster, acts of terrorism and other man-made disasters [5]. Common preparedness measures include:

- Communication plans with easily understandable

terminology and methods.

- Proper maintenance and training of emergency services, including human resources such as community emergency response teams.
- Development and exercise of population warning methods combined with emergency shelters and evacuation plans.
- Stockpiling, inventory and maintain disaster supplies and equipment [5].
- Develop organization of trained volunteers among civilian populations. Professional emergency workers are rapidly overwhelmed in mass emergencies so trained organized, responsible volunteers are extremely valuable.

Another aspect of preparedness is casualty prediction, the study of how many deaths or injuries to expect for a given kind of hazard. This gives planners an idea of what resources need to be in place to respond to a particular type of hazard.

Response

The response phase includes the mobilization of the necessary emergency services and first responders in the disaster area. This is likely to include a first wave of core emergency services, such as fire fighters, police and ambulance crews. When conducted as a military operation it is termed "Disaster Relief Operation (DRO)" and can be a follow-up to a non-combatant evacuation operation (NEO). They may be supported by a number of secondary emergency services, such as specialist rescue teams. Where required, search and rescue efforts commence at an early stage. Depending on injuries sustained by the victims, outside temperature and victims' access to air and water, the vast majority of affected by a disaster will die within 72 hours after impact [6].

Organizational response to any significant disaster, natural or terrorist borne, is based on existing emergency management organizational systems and process. There is need for both disciplines (structure, doctrine, process) and agility (creativity, improvisation, adaptability) in responding to a disaster [7]. Besides, there is vital need of a highly professional leadership to coordinate and manage efforts to craft and implement a disciplined and interactive set of response plans. This allows the team to move forward with coordinated, disciplined responses that are reasonably right and adopt to new information and changing circumstances along the way [8].

Recovery

The recovery phase of the global program is to restore the affected area to its previous state. It differs from the response phase in its focus. Recovery efforts are concerned with issues and decisions that must be made after immediate needs are addressed [4]. Recovery efforts are primarily concerned with actions that involve rebuilding destroyed property, repair of essential infrastructure, and restore institutions to suitable economic growth and confidence. Efforts should be made to "build back better", aiming to reduce the pre-disaster risks inherent in the community and infrastructure [9]. Citizens of the affected area are more likely to accept more mitigative changes when a recent disaster is in fresh memory.

The "PDCA" Model

As stated earlier, the NFPA-1600, 2010 edition, has introduced the concept of "PLAN, DO, CHECK, ACT" (PDCA)", which is called as the heart of the management system (see Figure 1). It is organized in chronological order as: planning (PLAN), implementation (DO), testing and exercising (CHECK), program improvement as a result of CHECK and, action (ACT).

A careful study of this new concept of Disaster/Emergency Management ("PDCA") implies the confirmation of eight principles of FEMA and IAEM as agreed in March 2007, to be used as guidelines for the development of a doctrine of Emergency/Disaster Management. However, "PDCA" concept is more compact and integrated. Emphasis is given to:

- Leadership and commitment of Emergency Managers
- Records management
- Risk assessment (business impact analysis)
- Crisis management
- Succession and delegation of authority
- Communications and warnings
- Emergency response
- Business continuity and recovery
- Testing and exercises (simulation and full operational exercises)
- Correction actions and improvement of the program
- Implementation of improved program

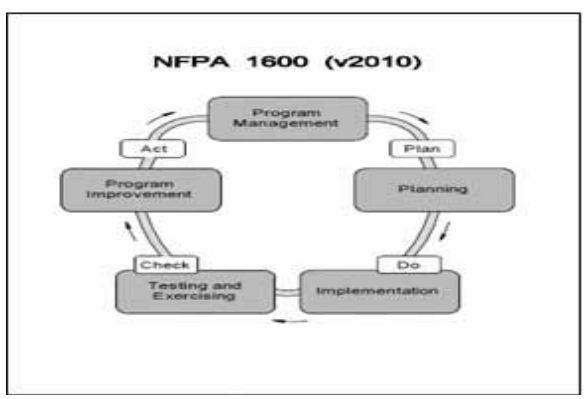

Figure 1: The PDCA Cycle

Canada's National Policy, Response System and Standards

Public Safety Canada, the Canada's National Emergency Management Agency, houses the Government Operation Centre at the hub of the National Emergency Management System. It is an advance centre for monitoring and coordinating the federal response to an emergency. An integrated network for regional offices and satellite offices across the country are the department's representatives

closest to any emergency or event of national interest. Eight important factors are recognized in the Emergency/ Disaster Management of Canada. In chronological order, these are:

i) Critical infrastructure

ii) Cyber security

iii) Disaster mitigation

iv) Emergency Management planning

v) Emergency preparedness

vi) Recovery

vii) Response

viii) Regional operations

The national strategy and action plan for critical infrastructure establishes a risk-based approach for strengthening the residency of the country's vital assets and system such as "food supply, electricity grids, transportation, communications, water supply and public safety system". The action plan is the blue print for how the strategy will be implemented to enhance the residency of the country's infrastructure (see Figure 2).

Scenario in Pakistan

Pakistan is located in a region that is prone to a number of natural disasters. Due to its diverse range of terrain, the country is susceptible to wide-ranging hazards like draughts, flood, earthquake and cyclones. Besides natural disaster to which our country is prone to, we now suffer from many man-induced disaster situations, which is fallout of situation along our Western borders. Pakistan is home to world's largest refugee population from Afghanistan (over 3 million people).

Disaster profile

The Disaster/Risk profile is an analysis of the mortality and economic loss risk in the respective hazard. The Table 1 shows the level of disaster caused by the earthquake of 2005 and floods of 2010 [12].

It has been nearly a year since devastating monsoon rains unleashed heavy flooding in Pakistan. Four million people are still in tents, they need food and permanent shelters. Young children need proper nutrition and medicine so that the health effects of this tragedy do not last a lifetime. Whereas on the relief management, Pakistan is at a juncture where the world does not trust its government for proper utilization of flood relief funds, food and reconstruction. As a result, most of the international relief funds are being utilized through NGOs of their own choice. Unfortunately a major part of the allocated fund is utilized by NGOs for their own staff and equipment.

National Disaster Management Program

There is no comprehensive, integrated disaster management policy at the national level in Pakistan and the country also lacks a proper system for disaster prevention and preparedness [12]. Disaster management is unfortunately seen as the provision of relief rather than the management of all phases of a disaster situation or long-term management of risk.

This situation strongly advocates the need for a disaster management structure, a comprehensive preparedness and mitigation strategy, as well as a mitigation policy in order to better manage and coordinate activities of various ministries, departments, and civil society (NGOs). There is also a need for research on traditional and current coping mechanism and on sustainable community approaches to disaster reduction. There is urgent need to strengthen the institutions like Pakistan Red Crescent Society in collaboration with National Disaster Management Authority (NDMA), to develop a training and curriculum for a course on Effective Disaster Risk Management. The training shall develop local institutional arrangements and capacities at grass root level to reduce the risks of earthquakes, flood and drought etc.

CONCLUSIONS

Threats and risks are becoming increasingly complex due to the diversity of natural hazards and the growth of transitional threats arising from the consequences of terrorism, climate changes, and critical infrastructure interdependencies. Emergencies can quickly escalate in scope and severity and result in significant human and economic loses. A key function of the Government of any country is to protect the safety and security of its people. Disaster/Emergency Management plays a vital role in this regard. Disaster/Emergency Management (EM) planning, in particular, aims to strengthen resiliency by promoting an integrated and comprehensive approach that includes the four pillars of EM i.e. prevention and mitigation, preparedness, response and recovery. Effective EM results from a coordinated approach and a more uniform structure across federal government institutions.

Disaster profile of Pakistan strongly advocates the need for a comprehensive and effective Disaster/Emergency Management structure in line and compliance with PDCA model of NFPA-1600 through implementing innovative and cost effective techniques, with active participation of multiple stakeholders to serve as a vision document for leading the way towards a safer Pakistan.

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Hazard type	Area Affected	Population affected	Official casualties	Population lost homes	Estimated no. of people still in campus	Source Reference
Earthquake (2005)	30,000 sq. km	3.5 million (500,000 families)	73,338	3.3 million (Over 600,000 dwellings)	297,000	UNDP-Pakistan-crisis prevention and recover (19/01/2011) (hptp://undp.org.pk/crisis-prevention and-recovery.html)
Flood disaster (July 2010)	3.5 million acres.	20 million (including 50% children and one million pregnant women)	1500	17.0 million	About one million	i) Hidaya foundation (http://www.hidaya.org/social-welfare) disaster-relief-pakistan-floods-2010.gclid) ii) Weekly Asia, Pakistan, special issue on flood relief, 28 Oct – 30 Nov. 2010)

Table 1: Disaster profile in Pakistan

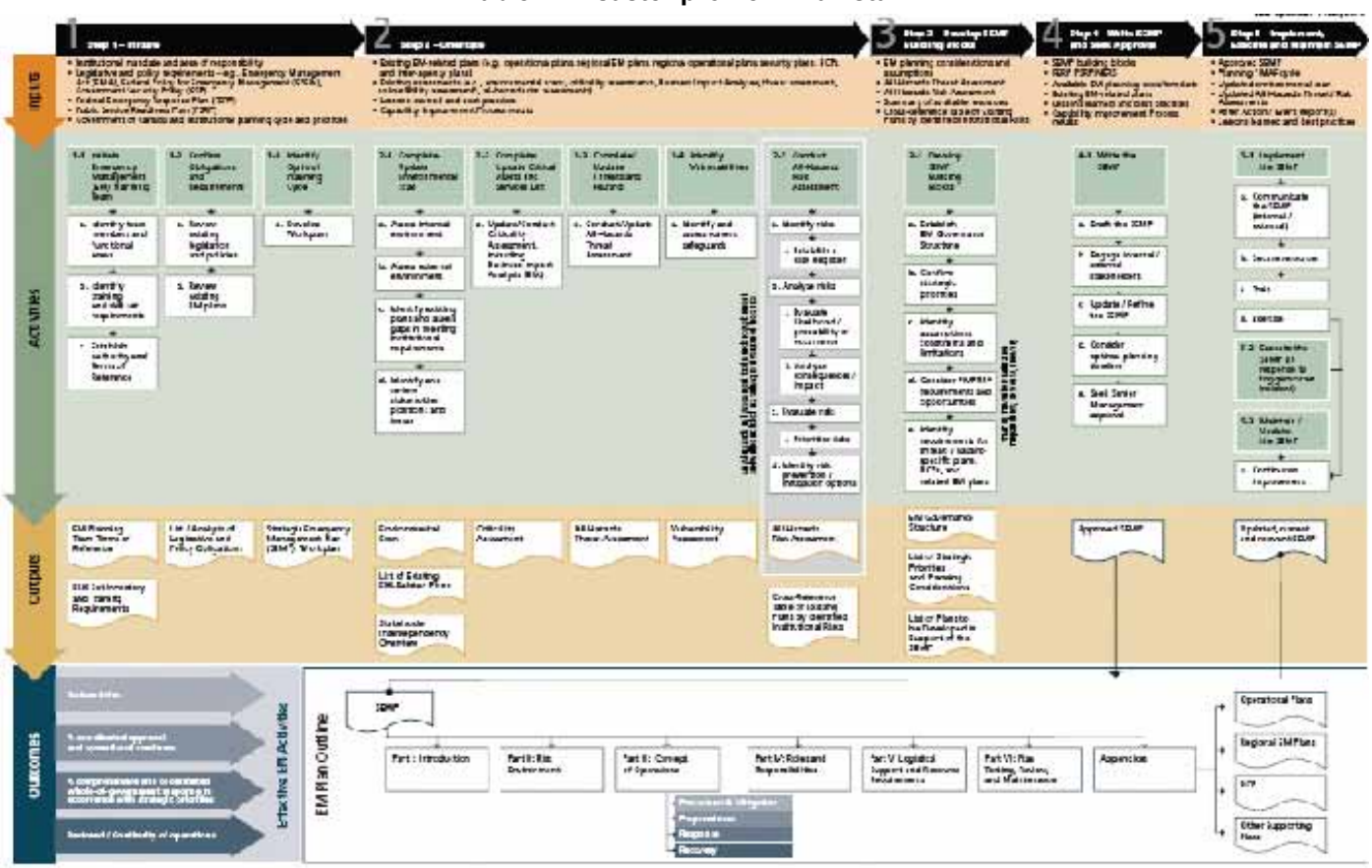

Figure 2: Emergency Management Planning Guide Blue Print

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Maintenance Planning and Inventory Control

by

Engr Syed Sarfaraz Ali

Maintenance is defined as measures required to maintain and re-establish a specified condition, as well as to assess the actual condition of the technical capabilities of a given system. Maintenance requirements of an engineering plant vary according to the size, design, process type, location, business environment and the available technical and material resources. Plants and equipment that provide a service 24 hours a day, seven days a week have different maintenance requirements than, for example, plants and equipment that operate eight hours a day, six days a week. Industries and utilities should select or develop a maintenance management program that accurately predicts the condition of system components. Condition monitoring data should be accurately collected and recorded.

Therefore, maintaining the items of equipment on whose continuous operation the facility depends is a high priority program. The drive for economy is forcing machinery users to examine their spares holding. This often neglected job is on the top of machinery users agenda nowadays. The need to reduce inventory has to be balanced against the risk of an un-scheduled shutdown. In the process, more advanced users are re-examining the need for improvement in the condition of the actual inventory, and the documentation system for the procurement of spares. In all these areas, the Original Equipment Manufacturer (OEM) has a key role to play. Much attention is given to plan an effective maintenance program for the plant keeping in view the manufacturer's recommendations and the important spares to meet any emergency, at least on yearly basis, so that minimum stock of essential spares is available. This requires a regular and vigilant watch on the present stock, the procurement, storing and the re-ordering process. This is generally described under the heading of Inventory Control.

Benefits of Good Maintenance

Efficient and economical operation of plant and equipment and the profitable utilization of resources while maintaining safe working and environmental conditions are essential in today's business. Excessive operating costs, due to poor maintenance can lead to the followings losses:

- High electricity consumption due to excessive friction in bearings and belts.
- High electric consumption due to non alignments of moving parts.
- Extra fuel consumption due to low heat transfer surfaces.
- Extra fuel consumption due to lack of cleaning of filters and tubes.
- Loss of steam, compressed air, fuel gas, cooling water etc, through leaks in valves and flanges.
- Loss of heat due to damage or defective insulation on pipes.

The list seems endless, yet experience shows that many engineer/managers try to increase profits by cutting maintenance costs which may lead to the total breakdown of the plant which ultimately can cause substantial losses.

In fact, a well-managed and planned maintenance program has the potential for major savings in the cost of spare parts. By knowing the typical life of equipment and extending this through a good maintenance process can substantially cut its inventory of spares with corresponding reduction in the capital tied up with the spare parts holdings.

Basic Elements of a Maintenance Program

Some system of documentation is needed for the maintenance program. A simple system will satisfy the essential requirements by providing answers to the following four questions.

- What is to be maintained?
- How is it to be maintained?
- When is it to be maintained?
- Is the maintenance effective?

Taking these questions in order leads to an effective maintenance program:

a. Compilation of the inventory of the whole plant and equipment with identification codes.

b. Developing the procedures for required maintenance for each item listed in the inventory.

c. Drawing up a program to establish when each item is to be maintained.

d. Complete documentation for each maintenance work carried out with the details of trouble report, job order, spares used, duration and dates.

e. Feedback on the work conducted and the results achieved in order to continually evaluate and improve the maintenance program.

Types of Maintenance

There are three approaches to the maintenance of any plant or interconnected system. However, the experience has shown that the Preventive Maintenance is the best approach that can be adopted to obtain better efficiency and improve profitability.

Breakdown Maintenance

Let the system operate until it fails and then repair it. This approach is not possible in any successful commercial operation and modern industrial concerns cannot even think of adopting such a scheme.

Corrective Maintenance

It is carried out to restore lost efficiency and hence to reduce production cost.

Preventive Maintenance

Conduct periodic inspection and take appropriate maintenance action to minimize failure.

Preventive maintenance helps not only to avoid some incidents from the very beginning, but also to coordinate overhauls with repairs, upgrading or even up-rating. The main purposes of preventive maintenance are:

- To plan normally one year in advance, the scheduled standard overhauls in order to reduce downtimes and share the work between operational and maintenance staffs.
- To remedy all possible defects affecting the availability of the plant or any kind of detrimental conditions such as fouling or deviation from the original performance.
- To provide access to the latest state-of-the-art technology.

Advanced Techniques of Preventive Maintenance

Different versions and modules of preventive maintenance schemes which are in use in industrialized countries are briefly described as follows.

Reliability Centered Maintenance (RCM)

Reliability Centered maintenance is a step-by-step instructional tool for how to analyze a system's all failure modes and define how to prevent or find those failures early. RCM is a structured approach, which is used to determine the maintenance requirements of complex systesms. It was originally developed by aviation industry.

Condition Based Maintenance (CBM)

CBM is an approach wherein industries track the number and type failures of equipment and materials to determine the loss of component life. Industrial units also ask manufacturers to recommend service intervals for equipment. With improved diagnostic tools, the results of periodic testing and advanced computer software, the engineers are increasingly moving towards condition based maintenance approaches.

Comprehensive Maintenance Program (CMP)

CMP is a three prong policy of arranging a proper coordination between the Man, Material, and Management (3M) Program. The complexity and/or importance of the basic system e.g. an electric power system require a comprehensive maintenance approach for better and economical results. There are very good management information systems (MIS) available that optimize, streamline, and automate

Inventory Control

Procurement of spare and proper tools is required for maintenance and overhauling. Details of items stocked by a particular plant are contained in a warehouse which is itemized in code number sequence. In addition to being a quick guide to the maintenance engineer on what is available from warehouse it provides a useful control on the variety of spares stocked and a common understanding between the maintenance staff and the stores staff during any emergency. Automated inventory management systems are software suites that optimize many processes in the management and control of inventory hence increase efficiency and reduce downtime and costs.

Types of Spares

Maintenance store generally contains the following two types of spares.

1. General engineering spares, like nuts and bolts, screws, tools, metals/piping, jointing and packaging materials, electric light fittings and protective equipment, clothing etc.
2. Capital spares are an initial replacement or assembly of a high value essentially associated with a particular unit or type of plant which it is anticipated will not be used for normal repairs and maintenance, except by way of interchange and will only be required in case of a breakdown.

Stock Levels

Stock levels for spares with a predictable rate of use are determined on a basis which takes into account the expected consumption, overall delivery time, cost of the item and the administrative costs of ordering the stock. The aim is to keep stocks at a minimum economical level consistent with the needs of the repair and the maintenance work. Modern inventory management information systems provide the optimum re-order levels and re-order quantities are provided for the use of stores staff. They take into account historical consumption over a short period which may arise at the time of a major plant overhaul. Excess stocks are prevented by the preparation of lists of items required for a scheduled overhaul. This enables the stores supervisor to have such material available for the scheduled date without over-stocking for the remainder of the year.

Insurance

Where major items of plant are transported to a workshop or a manufacturer's works, insurance has to be arranged against normal contingencies at the time of dispatch from the store. The store supervisor issues an advice note on the dispatch of the goods and notifies the Regional headquarter, which arranges the necessary insurance cover.

Conclusions

The old system of purchasing of spares parts in bulk quantity, storing them, blocking a large capital in dead stock, and then waiting till a breakdown occurs so as to use the dead stock is no longer feasible. Modern Maintenance Management System requires experience and good judgment. An efficient and well maintained maintenance program offers the potential for major savings in the cost of spare parts. By knowing the typical life of equipment (and extending this through good maintenance) a company may substantially cut its inventory of spares, thus reducing the capital tied up in stores.

Combined Cycle Power Plant

by

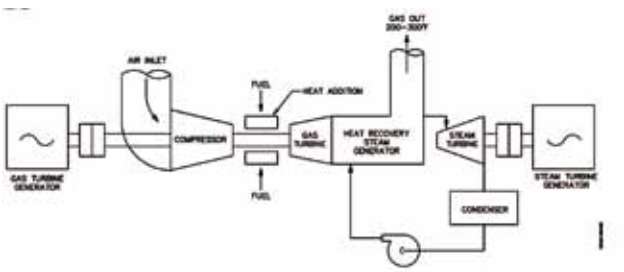
Engr Aijaz Umer

Fossil fuels (coal, oil and gas) contain chemical energy, which in a power plant is converted into heat energy by combustion. Steam or gas turbines then convert this heat energy into electrical energy.

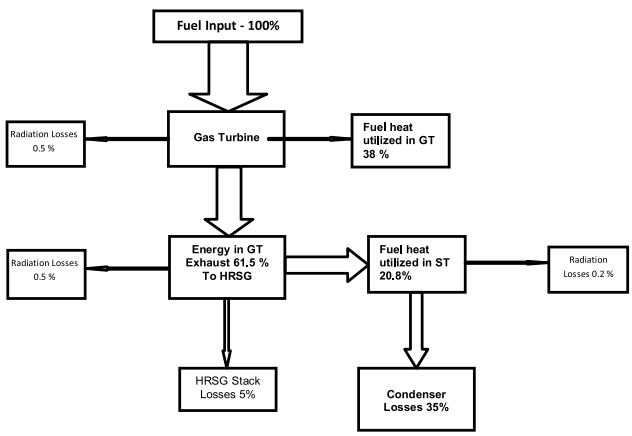
The basic components of gas turbine based generating unit are high pressure compressor, combustion chamber, turbine and electric generator. The combustion of fuel air mixture will take place in combustion chamber, where high-pressure, high-temperature gas will be produced and this hot flue gas will expand in the turbine. The turbine is coupled with the generator which produces electricity. The basic components of steam power plant are boiler, turbine coupled with electric generator (turbine rotates by high temperature, high pressure steam), steam condenser and feed pump. Combustion of fuel takes place in the boiler, the heat energy of flue gases is taken by water which is inside of boiler tubes, this water ultimately converts to steam, and steam rotates steam turbine, which in-turn rotates electric generator at 3600 rpm for producing 60 Hz AC electricity. At the last stage of steam turbine, steam pressure and temperature are very low, this steam is called dead steam, which is condensed into water in a condenser, and the cooling medium in the condenser is sea water or river water. The condensed water is again fed to the boiler by pumps.

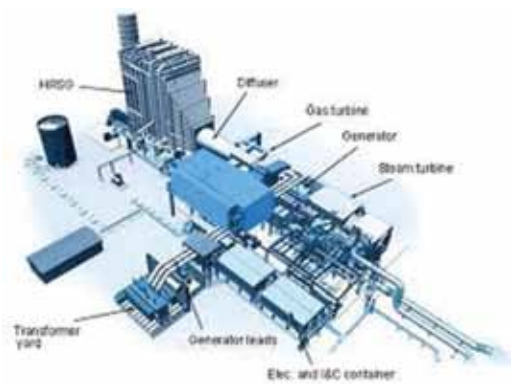
Steam turbine works on Rankin Cycle and gas turbine works on Brayton Cycle. The combined cycle unit combines the Brayton (gas turbine) and Rankin (steam turbine) thermodynamic cycles using heat recovery boiler (Heat Recovery Steam Generator or HRSG) to capture the energy in the gas turbine exhaust gases for steam production to supply a steam turbine. This steam can be fully utilized to generate electric power through condensing steam turbine or can in part be utilized to generate power by back pressure steam turbine and in part for any other specific purpose e.g. to produce desalinated water through MED or MSF technologies.

In the last quarter of the 20th century the approach of the selection of highly efficient and less- pollution causing emission technology, gave Combined Cycle Technology a tremendous boost. The gas turbine share of the world power generation market has climbed from 20 % to 40 % of capacity over the last 20 years with CCGT due to increased use for base-load power generation. Nowadays, combined cycle power unit of more than 600MW is more common than other technologies. These CCGT units exhibit low capital cost and high thermal efficiency. The availability of gas-fired CCGT power plant can exceed 95%. It is worth mentioning here that 1 % increase in the availability of a CCGT power plant of 2000MW capacity translates to the earning of millions of Saudi Riyals per year. A Combined Cycle power plant also provides superior cyclic operating capability than steam power plant and loading and unloading rates of power are also higher. In other words, the CCGT power plant provides an excellent means to control the frequency of transmission system.



Energy Flow Diagram for CCGT Plant





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Draftsmen	12

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Planning	
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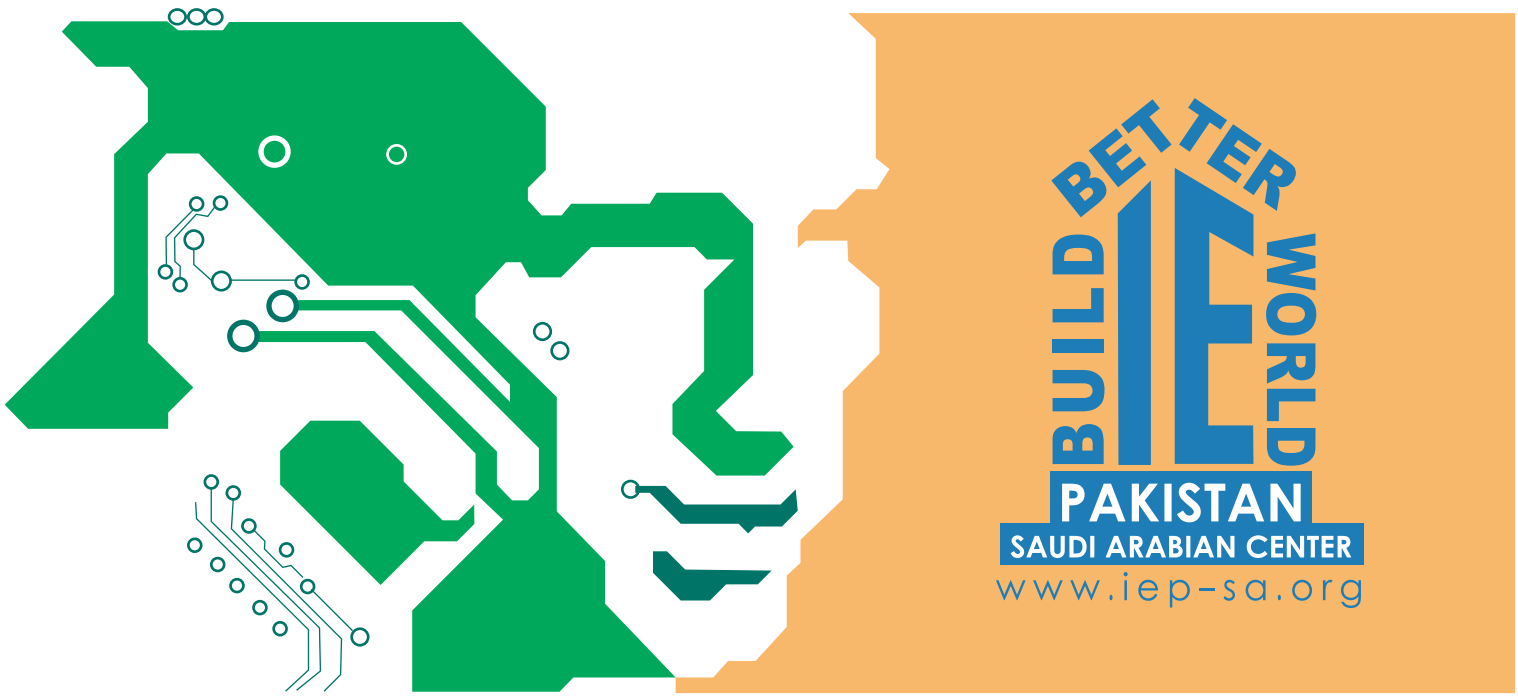

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وَعِنْدَهُ مَفَاتِحُ الْغَيْبِ لَا يَعْلَمُهَا إِلَّا هُوَ ۚ وَيَعْلَمُ مَا فِي الْبَرِّ وَالْبَحْرِ ۚ وَمَا تَسْقُطُ مِن وَرَقَةٍ إِلَّا يَعْلَمُهَا وَلَا حَبَّةٍ فِي ظُلُمَاتِ الْأَرْضِ وَلَا رَطْبٍ وَلَا يَابِسٍ إِلَّا فِي كِتَابٍ مُّبِينٍ ﴿٥٩﴾

He has the keys to the realm that lies beyond the reach of human perception; none knows them but He. And He knows what is on the land and in the sea; there is not a leaf which falls that He does not know about and there is not a grain in the darkness of the earth or anything green or dry which has not been recorded in a Clear Book (6:59).

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اَلَمۡ یَاۡنِ لِلَّذِیۡنَ اٰمَنُوۡۤا اَنۡ تَخۡشَعَ قُلُوۡبُهُمۡ لِذِكۡرِ اللّٰهِ وَمَا نَزَلَ مِنَ الۡحَقِّ ۙ وَلَا یَكُوۡنُوۡا كَالَّذِیۡنَ اُوۡتُوا الۡكِتٰبَ مِنۡ قَبۡلُ فَطَالَ عَلَیۡهِمُ الۡاَمَدُ فَقَسَتۡ قُلُوۡبُهُمۡ ؕ وَكَثِیۡرٌ مِّنۡهُمۡ فٰسِقُوۡنَ ۝

Is the time not come that the hearts of the believers should be humbled to Allah's remembrance and to the Truth that He has revealed, and that they should not be like those who were vouchsafed the Book and then a long time elapsed so that their hearts were hardened? A great many of them are now evil-doers (57:16).

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60 Tips for General Living

These points are some of the lessons learnt from Quran that apply to our general living. In the end, the verses of Quran from which the lesson is drawn is given. The points may not be word by word translations of the Quranic verses.

1. Respect and honor all human beings irrespective of their religion, colour, race, sex, language, status, property, birth, profession/job and so on [17/70]
2. Talk straight, to the point, without any ambiguity or deception [33/70]
3. Choose best words to speak and say them in the best possible way [17/53, 2/83]
4. Do not shout. Speak politely keeping your voice low. [31/19]
5. Always speak the truth. Shun words that are deceitful and ostentatious [22/30]
6. Do not confound truth with falsehood [2/42]
7. Say with your mouth what is in your heart [3/167]
8. Speak in a civilized manner in a language that is recognized by the society and is commonly used [4/5]
9. When you voice an opinion, be just, even if it is against a relative [6/152]
10. Do not be a bragging boaster [31/18]
11. Do not talk, listen or do anything vain [23/3, 28/55]
12. Do not participate in any paltry. If you pass near a futile play, then pass by with dignity [25/72]
13. Do not verge upon any immodesty or lewdness whether surreptitious or overt [6/151]
14. If, unintentionally, any misconduct occurs by you, then correct yourself expeditiously [3/134]
15. Do not be contemptuous or arrogant with people [31/18]
16. Do not walk haughtily or with conceit [17/37, 31/18]
17. Be moderate in thy pace [31/19]
18. Walk with humility and sedateness [25/63]
19. Keep your gazes lowered devoid of any lecherous leers and salacious stares [24/30-31, 40/19]
20. If you do not have complete knowledge about anything, better keep your mouth shut. You might think that speaking about something without full knowledge is a trivial matter. But it might have grave consequences [24/15-16]
21. When you hear something malicious about someone, keep a favorable view about him/her until you attain full knowledge about the matter. Consider others innocent until they are proven guilty with solid and truthful evidence [24/12-13]
22. Ascertain the truth of any news, lest you smite someone in ignorance and afterwards repent of what you did [49/6]
23. Do not follow blindly any information of which you have no direct knowledge. (Using your faculties of perception and conception) you must verify it for yourself. In the Court of your Lord, you will be held accountable for your hearing, sight, and the faculty of reasoning [17/36].
24. Never think that you have reached the final stage of knowledge and nobody knows more than yourself. Remember! Above everyone endowed with knowledge is another endowed with more knowledge [12/76]. Even the Prophet [may Allah's peace and blessings be on him] was asked to keep praying, "O My sustainer! Advance me in knowledge." [20:114]
25. The believers are but a single Brotherhood. Live like members of one family, brothers and sisters unto one another [49/10].
26. Do not make mockery of others or ridicule others [49/11]
27. Do not defame others [49/11]
28. Do not insult others by nicknames [49/11]
29. Avoid suspicion and guesswork. Suspicion and guesswork might deplete your communal energy [49/12]
30. Spy not upon one another [49/12]
31. Do not backbite one another [49/12]
32. When you meet each other, offer good wishes and blessings for safety. One who conveys to you a message of safety and security and also when a courteous greeting is offered to you, meet it with a greeting still more courteous or (at least) of equal courtesy [4/86]
33. When you enter your own home or the home of somebody else, compliment the inmates [24/61]
34. Do not enter houses other than your own until you have sought permission; and then greet the inmates and wish them a life of blessing, purity and pleasure [24/27]
35. Treat kindly -Your parents-Relatives-The orphans-And those who have been left alone in the society [4/36]
36. Take care of -The needy,-The disabled-Those whose hard earned income is insufficient to meet their needs-And those whose businesses have stalled -And those who have lost their jobs. [4/36]

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37. Treat kindly -Your related neighbors, and unrelated neighbors-Companions by your side in public gatherings, or public transportation. [4/36]
38. Be generous to the needy wayfarer, the homeless son of the street, and the one who reaches you in a destitute condition [4/36]
39. Be nice to people who work under your care. [4/36]
40. Do not follow up what you have given to others to afflict them with reminders of your generosity [2/262].
41. Do not expect a return for your good behaviour, not even thanks [76/9]
42. Cooperate with one another in good deeds and do not cooperate with others in evil and bad matters [5/2]
43. Do no try to impress people on account of self-proclaimed virtues [53/32]
44. You should enjoin right conduct on others but mend your own ways first. Actions speak louder than words. You must first practice good deeds yourself, then preach [2/44]
45. Correct yourself and your families first [before trying to correct others] [66/6]
46. Pardon gracefully if anyone among you who commits a bad deed out of ignorance, and then repents and amends [6/54, 3/134]
47. Divert and sublimate your anger and potentially virulent emotions to creative energy, and become a source of tranquility and comfort to people [3/134]
48. Call people to the Way of your Lord with wisdom and beautiful exhortation. Reason with them most decently [16/125]
49. Leave to themselves those who do not give any importance to the Divine code and have adopted and consider it as mere play and amusement [6/70]
50. Sit not in the company of those who ridicule Divine Law unless they engage in some other conversation [4/140]
51. Do not be jealous of those who are blessed [4/54]
52. In your collective life, make rooms for others [58/11]
53. When invited to dine, Go at the appointed time. Do not arrive too early to wait for the preparation of meal or linger after eating to engage in bootless babble. Such things may cause inconvenience to the host [33/53]
54. Eat and drink [what is lawful] in moderation [7/31].
55. Do not squander your wealth senselessly [17/26]
56. Fulfil your promises and commitments [17/34]
57. Keep yourself clean, pure [9/108, 4/43, 5/6].
58. Dress-up in agreeable attire and adorn yourself with exquisite character from inside out [7/26]
59. Seek your provision only by fair endeavor [29/17, 2/188]
60. Do not devour the wealth and property of others unjustly, nor bribe the officials or the judges to deprive others of their possessions [2/188]

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From: http://www.criticalthinking.com/company/critical_thinker_quiz.jsp
Are You a Critical Thinker?
Take the critical thinking quiz below and test your knowledge.

1. You have only an 8-liter jug and a 3-liter jug. Both containers are unmarked. You need exactly 4 liters of water.

How can you get it, if a water faucet is handy?

1. What can you add to 1,000,000 and always get more than if you multiplied the 1,000,000 by the same value?
2. Determine the common saying depicted in these verbal picture puzzles.

a. DECI SION
b. ANOTHER ONE

1. What is the 50th number in this sequence?

Explain how you got your answer.
5, 11, 17, 23, 29, 35, 41, …

2. Determine both one-word answers.

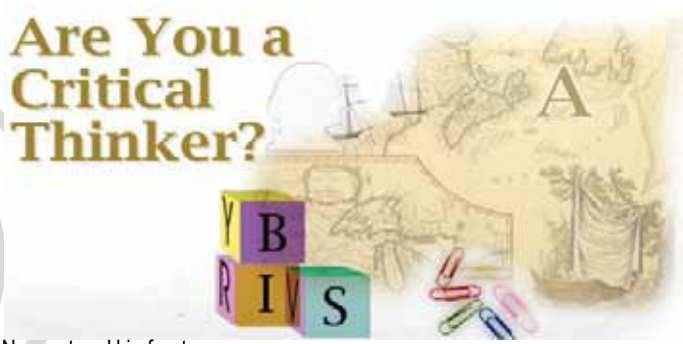
The floor of ship or boat,
They walk on me at sea;
Where there's a C, make it an S,
At school you sit on me.
What am I? _____

3. The reason he gave the press for leaving his job was illness and fatigue. That wasn't exactly the truth and it wasn't exactly a lie.

Why did he leave?

4. Determine both one-word answers.

Another word for sick,
Your forehead is quite hot;



Now put an H in front,
A mountain I am not.
What am I?_____

8. Use the clues to solve the puzzle.

A duck, a goose, a goat, and a horse all entered the barn at different times one day last week.

1) A mammal entered the barn first.
2) The duck entered before the goose.
3) The goose entered ahead of the horse.

Who entered the barn first? _____

9. Determine the common term or phrase depicted in these verbal picture puzzles.

a. CHIEDITOREF
b. T 2222

10. Use the addition, subtraction, multiplication and division symbols once each to make these equations true.

a. 600 __ 200 __ 400 __ 300 __ 200 = 200
b. 200 __ 300 __ 600 __ 400 __ 200 = 200

Answers to Quiz:

1) Fill the 3-liter jug three times, each time dumping the water from it into the 8-liter jug. The third time, this will leave one liter of water in the 3-liter jug, and the 8-liter jug will be filled. Dump the water from the 8-liter jug down the drain, and then empty the one liter of water from the 3-liter jug into the 8-liter jug. Now fill the 3-liter jug again and dump the water into the 8-liter jug. The 8-liter jug now contains 4 liters of water. Various answers are possible.
2) zero, or any fraction less than a whole, or any negative number
3) a.) split decision b.) one after another
4) 299. The pattern involves a difference of 6 between adjacent terms of the sequence. Add 6 to 5, getting 11, then add 6 to 11, getting 17, then add 6 to 17, getting 23, etc., until 6 has been added 50 times, ending in 299. Answer explanations will vary.
5) Deck, desk
6) He was the coach of a professional ball team. The team's owner fired him because he was "sick and tired" of the team's dismal performance.
7) a.) ill b.) hill
8) the goat
9) a.) Editor in Chief b.) Tea for two
10) a.) 600 x 200 / 400 - 300 + 200 = 200 b.) 200 / 300 x 600 - 400 + 200 = 200

The Institution Of Engineers Pakistan Saudi Arabian Center

DIRECTORY REGISTRATION FORM

Please Cross (X) the applicable:

☐ New Entry ☐ Data already sent is correct ☐ Amendment (Please write only Name, Branch, and Amendment)

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If the answer to the above question is "Yes" then please fill up the following:

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b) Membership No.
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Degree	Institution	Year

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Present Employer .....

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11. MEMBERSHIP(S) OF OTHER PROFESSIONAL BODIES, IF ANY. _____
12. PRACTICAL EXPERIENCE _____

Sr. No.	Organization	Position Held	From	To	Total Years
1.					
2.					
3.					
4.					
5.					
6.					
7.					
				TOTAL YEARS	

PLEASE ATTACH A COPY OF DETAILED BIO-DATA

13. Class of membership in which admission is sought:

☐ Chartered Engineer ☐ Fellow ☐ Member ☐ Associate ☐ Affiliate ☐ Subscriber

Current Membership Number _____

PEC Registration Number _____

_____
Applicant's Signature

Proposer's Name (in block letters)	Signature	Date	Class of Membership

Seconder's Name (in block letters)			

Grade of Membership General Requirements	Transfer Fee Fellow to Chartered Engineer	Age (Minimum) Years	Entrance Fee	Transfer Fee Member to Fellow	Life Fee	Life Membership fee for Pakistan Engineer Readers Club	Annual Sub-Scription	Diploma / Certificate Fee	Total
	Rs.		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
1. **Chartered Engineer** (A) Must be a Fellow of IEP (B) Must be holding, or must have held in the past, positions of high responsibility in the Engineering profession, for a minimum of 20 years.	--	45	--	--	2000/-	1500/-	--	200/-	3700/-
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N.B.: 1. Proposer & Seconder must be Corporate Members of IEP.

2. This Application Form must be properly filled in and signed by the applicant, proposer and seconders & submitted to the H.Q. Office through the Local Centre concerned, together with attested copies of the Matriculation Certificate, Engineering Degree & CNIC Copy.

3. Please enclose a bank draft or crossed cheque in favor of IEP HQ for:
   a) Life Membership Fee
   b) Subscription for IEP Journal "The Pakistan Engineer"
   c) Fee for Life Membership of Readers Club to receive monthly Journal of IEP as and when published.
   d) Diploma Fee

4. When applying for fellowship of I.E.P. please quote current Membership Number.

5. Only Members of IEP are eligible for Fellow Membership.

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