

## Collusion in gas theft is a crime



- Senators visit SSGC
- OGRA holds hearings
- SSGC-trade bodies meet
- Meter Plant's record output
- Directors' HQ3 visit
- A get-together in Islamabad - Meet 'The Saviour'

Sui Southern Gas Company Limited

NA speaker inaugurates gas supply to Badin towns
 April 22, 2010, were attended by SSGC officials and citizens of the respective areas.

Dr. Zulfiqar Mirza, Minister for Home, Government of Sindh was also present at the ceremonies. SSGC was represented among others by Mushtaq Siddiqui, AGM (D), Sindh and Mohammad Hashim, Project Director.

The gas pipeline projects involved laying down 6 inch and 4 inch dia 23,000 kms supply main and 4", 3 " and 1 " dia 7,770 distribution mains with a total pipeline distance of $40,658 \mathrm{kms}$ in Nindo and Khoski. The estimated cost of the project is Rs. 119.706 million. The projects stand to serve more than 1,175 customers in Nindo and Khoski.

On the other hand, more than 370 customers in Choudhry Din Muhammad Jan Mohammad Vehro will benefit from the project that involved laying down 4 inch dia 6.3 km supply main and distribution mains of 3 " and 1 " dia of 1.5 and 2.3 kms with a total pipeline distance of $10,254 \mathrm{kms}$. The estimated cost of the project is Rs. 25.358 million.

## Editor's Note <br> 

## Is cell phone texting destroying the human dialogue?

Cell phones have revolutionized the way people interact, and they have greatly improved both the accessibility and availability to reach others. The convenience of being able to rapidly reach someone has increased the level of instantaneous conversations. However, for those of us who have experienced 'old-fashioned' ways of conversing often find themselves asking if whether or not these the capabilities offered by cell phones have actually improved the quality of communication or have they simply increased quantity?

Text-messaging and using abbreviated words have become part of the norm. One of the funniest, yet sobering, commercials to have ever appeared on television is one where a mother and daughter are discussing cell phones and the daughter replies to her mother using text lingo. As amusing as it is, the sad reality is many people have started to incorporate this jargon into everyday talk and conversation, essentially destroying and removing elements out of traditional linguistics. What was once considered good conversation has been reduced to abbreviated words and abrupt catch phrases. Is it good or bad? What do you think? Let us know on flame@ssgc.com.pk.


## Meet 'The Saviour'

Rise Against Natural Gas Theft and Make a Difference.....

NOW!

'The Saviour' is a mascot with a mission and a clear-cut aim to wage an all-out war against the menace of Unaccounted for Gas (UFG). At the same time, 'The Saviour' is all set to mobilize Team SSGC and stakeholders in taking practical measures to substantially bring down UFG. You will soon find him everywhere - in advertisements, posters and other public-awareness campaigns - advising all concerned to take the issue seriously
and repeatedly inculcating in the stakeholders that war against UFG is in our national interest.

The symbolic character of 'The Saviour' is the brainchild of Corporate Communications, conceptualized and created at a time when the clarion call for waging a battle against UFG has gained momentum. Thanks to our MD, Dr. Faizullah Abbasi who fully realizes the magnitude of the problem and has time and again reiterated that UFG is a clear and present danger that needs to be countered to take the organization back to its glory days.

Gas theft, meter tampering and gas leakages have a domino effect and to combat them each one of us has to take up the role of 'The Saviour' in whatever capacity we can. These threats just don't make our Company's bottomline vulnerable but clearly put a spanner in the wheels of industrialization.

If 'The Saviour' is not deterred by the enormity of the task, why should we?

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Designed by prestige

## Senators share SSGC's perspective on bridging demand-supply gap

The management of SSGC gave an all- ' inclusive presentation on the Company's infrastructure and operations to the Senate ! Standing Committee on Petroleum and Natural Resources. The senators were on an exclusive visit to the Company Head Office on April 27, 2010.

The meeting was chaired by Senator Sabir Ali Baloch, the Standing Committee Chairman. Dr. Faizullah Abbasi, MD, SSGC and Azim Iqbal Siddiqui, DMD (Customer and Financial Services) apprised the senators about the current transmission ! and distribution projects, supply sources and category-wise sales in Sindh and Balochistan.

The senior management briefed the senators about the current status of line losses or unaccounted for gas (UFG) and the measures Company is taking in order to reduce it for improving the bottomline.

Besides the Company's top management, Senators Jahangir Badar, Haroon Khan, Mir Mohabat Khan Marri, Dr. Muhammad Ismail Buledi, Pervaiz Rashid and Shahid Hassan Bugti also participated in the proceedings.

The Senators noted with concern the alarming gas demand supply scenario and shared the management's perspective that fast-track implementation of Pakistan 'Mashal' LNG project and construction of transnational pipelines is imperative to bridge the gap. The senators stressed


Top to Bottom: Senator Baloch chairing the meeting; Jahangir Badar talking to media; MD \& DMD ( C \& FS)

that SSGC must continue to work on an effective plan to counter gas shortages in Sindh and Balochistan.

The Chairman Standing Committee assured the SSGC management of full cooperation and support in providing gas to far-flung, deprived areas of Sindh and Balochistan.


## Vital decisions taken with trade bodies

In view of the prevailing national energy crises, SSGC management held several rounds of meetings on April 28, 2010, with heads of industry associations namely S.I.T.E. Association of Industry, KATI, LATI, NKATI, FBATI and major CNG associations of Sindh and Balochistan.

After much discussion and persuasion, all CNG Associations representatives agreed to a one day CNG stations shutdowns every Friday from 12 noon to 12 noon Saturday ( 24 hours) in Sindh and Balochistan.

It was also agreed that the industries

working on $24 / 6$ basis (not operating round-the-clock) in main industrial areas of Karachi will ensure staggered closure of gas supply on designated days.

CNG associations and trade bodies

representatives agreed to the mutually decided closure in the greater national interest.

> Conserving energy is our collective responsibility

## SSGC-trade bodies hold meeting for important decisions

In view of the national energy crisis, SSGC's ' management held an important meeting i with leading trade bodies of Sindh and ! Balochistan including FPCCI, KCCI, SITE, KATI, APTMA and major CNG Associations ! on April 26, 2010. Decisions with regards to closure of gas to CNG stations and industries (not operating on around-theclock) were taken and committees constituted to implement the decisions. The meeting was chaired by Dr. Faizullah Abbasi, MD, SSGC. Zubair Motiwala, I Advisor to Chief Minister Sindh briefed the heads and senior members of Associations । regarding major decisions taken during last ! week's Energy Summit which was chaired by Prime Minister Syed Yusuf Raza Gilani.

While emphasizing on the dire shortage of gas in the North which has lead to massive power outages, Mr. Motiwala requested the trade bodies present to cooperate with SSGC and the Government in saving 10 mmcfd gas by closing down the CNG stations and 40 mmcfd by suspending gas supply to industries for one day. In this regard, recommendations were taken from the representatives of the trade bodies, after which it was decided to put into effect the load management program.

SSGC management also informed the participants of the meeting that all the gas saved will be diverted to the power sector in Sindh (KESC, Jamshoro Power Plant and Kotri Power Station) to improve power supply to Karachi and interior Sindh. Apart from the above, gas consumption in fertilizer sector has already been reduced by 20\%.

Two committees were formed, comprising DMD (C \& FS), SSGC and Chairmen of CNG associations to decide on the exact day of the shutdown. Another committee comprising Razzak Hashim Paracha, Chairman, KATI, Nisar Shekhani and DMD, SSGC will list industries working on 24/6 to ensure staggered closure of gas supply.

Winding up the proceedings, Advisor to Government of Sindh and MD, SSGC said that the decisions are being made in the best national interest and demonstrates solidarity with the provinces in the North.

MD, SSGC hoped that the industries will continue to support and cooperate with SSGC in these challenging times.

The meeting was attended, among others, !

by Abdul Majid Haji Mohammad, President KCCI, Salim Parekh, Chairman, SITE Association of Industry, Razzak Hashim Paracha, Chairman, KATI, Zain Bashir, Chairman, LATI, Abdul Sami Khan, Chairman, CNG Dealers Association of Pakistan, Malik Khuda Baksh, Chairman, CNG Stations Owners Association, Junaid Esmail Makda, Chairman, All-Pakistan CNG Association and former Chairmen of SITE Association namely Nisar Shekhani, Eng. M. A. Jabbar and Haroon Farooki.


## MD applauds meter plant on record production



Dr. Faizullah Abbasi addressing the audience
March 2010 will go down in the annals of SSGC Meter Manufacturing Plant's history as its most productive month when 78,000 units were produced. To commemorate this feat, a special ceremony was held on March 31, 2010 at the Plant's premises with Dr. Faizullah Abbasi, MD, SSGC as the chief guest.

The Company's senior management, meter plant executives, staff and workers and CBA office-bearers were in full force to join in the celebration which was organized by Madni Siddiqui, ADGM (MP) and his team.

During March 2010, record 25,000 Remus G-1.6 and 53,000 Gallus 2000 G-4 meters were manufactured.

While felicitating the meter plant team for the record production, MD, SSGC said being an engineer, he has roughly worked out that 5 meters were manufactured in one minute which by all means is a major achievement.

The MD while recalling his stint at the Company's meter plant in the 1990s said that whenever there was a fault in the meter, he would revert to the floor operator since only the latter knew the crux of the problem. Similarly, when I was in the USA, I would always refer to the assembly man as he knew the exact remedy of the problem having manufactured the meters, the MD added.

The MD asked the floor workers present to suggest ways to further improve the features of the meter especially since a


Top to Bottom: MD joining meter plant staff in celebrating their latest success; ADGM (MP) welcoming the management and workers

number of PUG (Passing Unregistered Gas) meters cases are highly subjected to tampering. Earlier, Madni Siddiqui, ADGM (MP) thanked the senior management for its support.

He said that with the timely arrangement of meter components and effective motivation of the workers, the target was successfully achieved by the meter plant. Riaz Akhtar Awan, Chairman, Peoples Labour Union, CBA said that the management and workers must collectively work towards reducing UFG.

Later, meter plant's floor engineer Mr. Rashid, workers Kalim Siddiqui and Sadiq Ullah and Chairman, PLU joined the MD and the management in cutting the cake to celebrate the feat.

Syed Hassan Nawab, DMD (Operations

and Planning), Rahat Kamal Siddiqui, SGM (ES) Zuhair Siddiqui, SGM (MS), Salim Ahmed Mughal, SGM (Distribution), Zahid Mumtaz, ASGM (Customer Services),

Shaukat Baloch, ASGM (Transmission), Shahid H. Jafri, CFO, Yusuf J. Ansari, Company Secretary, Majid Malik, AGM : (HR), Amir Mumtaz Khan, AGM (Admin. Services) and Dr. Ejaz Ahmed, PSO to MD were also present on the occasion.

## OGRA holds hearings on SSGC's petition

At a public hearing of its plea before a bench headed by Oil and Gas Regulatory Authority's (OGRA) Chairman Tauqir Sadiq, the SSGC management gave a detailed presentation on the petition for the estimated revenue requirement (ERR) during the financial year 2010-11. The hearing was held on April 6, 2010 at a local hotel in Karachi. Mr. Tauqir Sadiq, Chairman, OGRA, Syed Hadi Hasnain, Member (Gas), Mir Kamal Marri, Member (Finance) and Dr. M. Ilyas Fazil, Member (Oil) heard the petition.

The Company was represented by Syed Hassan Nawab, DMD (O\&P), Zuhair Siddiqui, SGM (MS), Salim A. Mughal, SGM (D), Zahid Mumtaz, ASGM (CS), Shaukat Baloch, ASGM (Transmission), Shahid H. Jafri, CFO, Yusuf J. Ansari, Company Secretary, Amin-ur-Rehman, GM (P\&D), Syed Fasihuddin Fawad, Head of Regulatory Affairs (RA) alongwith other executives who were present on the occasion.

The shortfall in the company's ERR in 201011 has been worked out at Rs. 22,334 million over and above the prescribed tariff allowed by OGRA with effect from July'2010 mainly due to a rise in the cost of gas consequent upon the expected crude oil and HSFO average FOB prices at $\$ 95$ per barrel and $\$ 492$ per metric ton, respectively, and $\$ 88.5$ rupee parity. The SSGC management also pleaded with OGRA to revise the benchmark. Interveners included Nisar Shekhani, the former central chairman and representative of the All Pakistan Textile Processing Mills Association, Abdul Sami Khan, Chairman, CNG Dealers Association, Dr. Kazi Ahmed Kamal of KCCI, Kaukab lqbal, Chairman, Consumers Association of Pakistan and Ghais Paracha, Chairman, CNG Association of Pakistan.

OGRA's Chairman remarked that the regulatory body was determined to protect the rights of all stakeholders in accordance with the law and in the best interest of the general public. He said that it was the duty of the Authority to balance the divergent interests of utility companies and consumers and added that OGRA will scrutinize all costs with the help of a team of professional engineers and financial and legal experts before deciding on new tariffs.

Similar hearings were also conducted in Quetta and Hyderabad in March and April 2010, respectively.


## Directors, management inspect HQ3 operations

SSGC's Directors and senior management took a detailed visit of the HQ3 Compressor Station at Jamshoro, near Hyderabad on April 14, 2010.

Directors Mirza Mahmood Ahmad, Abbas A. Mehkri and Faisal Ahmed were accompanied by Salim Ahmed Mughal, SGM (D), Shaukat Baloch ASGM (T), Zahid Mumtaz, ASGM (CS), Shahid H. Jafri, CFO, Yusuf J. Ansari, Company Secretary, Mansoor Ahmed, DGM (Gas Dispatch), Shaukat Fazalani, GM (T) and Shakeel Bukhari, AGM (Measurement) who visited different facilities of the Compressor Station and exchanged views with the site engineers and workers.

The visit was coordinated by the Company Secretary. The HQ3 Compressor Station with $3 \times 5$, 800hp compressors was completely refurbished by SSGC engineers in 2004-05 with a net savings to the tune of Rs. 2 billion.


Audit and Accounts Training Institute takes study tour

A 20-member delegation of probationary officers from Audit and Accounts Training Institute, Lahore alongwith three faculty members visited SSGC Head Office on April 6, 2010. The delegation was on a study tour of public sector offices and corporations and was headed by Syed Imtiaz Hussain Bukhari, Director General, Audit and Accounts Training Institute, Lahore.

The group was first taken on a guided tour of the Company's meter manufacturing plant by Madni Siddiqui, ADGM (Meter Plant) and Rashid Mansoor, DCM (Production) where they were given a detailed presentation about the mechanics of gas measurement.

Later on I. M. Noorani, GM (Internal Audit) gave a presentation on the Company's operations and infrastructure to the young officers at the auditorium which was

I. M. Noorani, GM (Internal Audit), SSGC with the visiting probationary officers
followed by a brief question and answer I whereas the members of visiting session. A memento was presented by contingent were presented with Director General, Audit and Accounts । Company’s corporate gifts.

PACRA delegation holds talks with DMD (C \& FS)


A delegation of Pakistan Credit Rating Agency (PACRA) led by Adnan Afaq, Managing Director / Chief Executive visited Head Office on April 29, 2010 for a meeting with Azim Iqbal Siddiqui, DMD (Customer and Financial Services).

DMD (C\& FS) gave a presentation on the Company's operations and financial performance to the team. Syed Hassan Nawab, DMD (O \& P), Shahid H. Jafri,


CFO, Yusuf Ansari, Company Secretary, I. M. Noorani, GM (Internal Audit), Mir Shahid Ali, GM (Treasury Functions), Amin -ur-Rehman, GM (P\&D) and Arsalan Iqbal, AGM (Accounts), were also present on the occasion.

Such PACRA visits which are a regular feature help its team to evaluate the capacity and willingness of SSGC to honor its debt obligations.


## Media Relations

## A get-together with Islamabad's media fraternity

In continuation to the receptions hosted in honor of media fraternity, Corporate Communication Department invited the Islamabad-based journalists for a gettogether at the Islamabad Serena Hotel on April 28, 2010. Nearly 50 media persons representing the dailies, news agencies and television channels with a mix of energy and court reporters and the bureau chiefs spent two leisurely hours as for this invitation they did not have to carry their recorders, pads and cameras since it was clearly communicated to them in advance that this is purely an informal gathering with a motive to strengthen relationships.

Nasreen Hussain, Dy. General Manager (CCD) along with her team members Inayatullah Ismail, DCM (MR) and Salman A. Siddiqui, DCM (CCD) welcomed the friends from media at the Zamana Restaurant in Serena Hotel. The Ministry of Petroleum and Natural Resources was represented by Tauqeer Ahmed, Dy. Secretary (Development) and PRO Asif-ur-Rehman.

Amongst the eminent journalists were Director News APP Ilyas Chaudhry and his team, Kalbe-e-Ali and Nasir Iqbal from Dawn, Usman Cheema and Azam Khan

from The Nation, Zafar Bhutta, Mushtaq Ghumman and Qamar-uz-Zaman from Business Recorder, Terence J. Sigamony from Pakistan Observer, Qaiser Zulfiqar from Express Tribune, Asadullah Malik from Samma TV, Amir Jalil Bobra and Sohail Eqbal from News One and Kamran Haider from Reuters. After the sumptuous dinner, the guests were given a warm send-off with corporate gifts of the company.


## Promotion letters given: in presence of MD

Promotion letters were presented to the 22 newly designated Deputy General Managers in the presence of Dr. Faizullah Abbasi, MD, SSGC at a simple ceremony held in the Company's Boardroom on April 12, 2010. Respective divisional and departmental heads handed out the letters to their executives.

Earlier, the MD congratulated the newly designated DGMs on their promotions and said that this was the manifestation of the commitment and hard work they had put into their tasks and assignments. He said that the promotions must serve to motivate them to work even harder in order to curb the menace of UFG while spurring up their team members to do the same collectively.


## MD identifies 6 potential leaders

Dr. Faizullah Abbasi has identified six potential leaders amongst 22 newly promoted DGMs. He emphasized on the potential leaders to justify their selection. The MD also advised concerned head of departments to groom potential leaders for the future by assigning them higher responsibilities.

The potential leaders are: Ms. Shaista Sajid Shaikh, DGM(TT), Syed Khalid Hasan, DGM(IT), Mr. Abbas Manghi, DGM(Services), Mr. Saleem Manghi, DGM(CP), Mr. Haseeb Ur Rehman, DGM(MM) and Mr. Habib Jamal, DGM(Meter Shop).

The MD advised the potential leaders to seek information through broader view and provide the way to clear the fog. Potential leaders were given the privilege to directly communicate with the MD through e-mail for sharing their ideas for organizational development. He advised potential leaders to share their knowledge, experience, and skills within business structure, required for success and practice ethical reasoning during any major decisions.

Syed Hassan Nawab, DMD (Operation \& Planning) congratulated the potential leaders for their selection and endorsed MDs remarks. He advised them to be the kind of leaders others can emulate.


## Organizational Re-structuring

Following executives have been promoted as DGMs with effect from April 9, 2010:


## Zahid Mumtaz takes over CS division as ASGM



I In April 2010, company's veteran Zahid
I Mumtaz was promoted as ASGM (Customer Services). In his more than 32 years of service at SSGC, Mr. Mumtaz spent 26 illustrious years in Customer Services. During the 1990s and 2000s, Mr. Mumtaz was DGM (Billing) (in-charge of the entire billing of Karachi including ICD and SIU (now S\&M), DGM (Statistics and Recovery) and DGM (Sales) as the Head of the Department. In February 2005, - Mr. Mumtaz was promoted as GM (CRD). ! In March 2008, he was re-designated GM
(HSE). From November 2008 to March 2010, Mr. Mumtaz served as the Company's GM (HR-Operations).

An MBA from University of Leicester, UK, he did his BA from Government College, Lahore and F.E.L (First Examination in Law) from Punjab University Law College, Lahore.

We wish Mr. Zahid Mumtaz all the success in reinforcing SSGC's image as a customer-centric utility with a difference.


## Befitting farewell for Mr. Habibullah Soomro



Habibullah Soomro, GM (Services) recently bid farewell to the Company after serving the Company with distinction for thirty four years. His colleagues gave him a befitting farewell in March 2010 by throwing in a series of lunches and tea parties. Mr. Soomro's Electrical Services Team took the lead in paying tribute to the man whose areas of specialization included electric power generation, telecommunication and SCADA, corrosion prevention and cathodic protection.
Syed Hassan Nawab, DMD (Operations and Planning), Rahat Kamal Siddiqui, SGM (ES), Shaukat Fazalani, GM (Transmission), Adnan Saghir Siddiqui, AGM (Services) and other executives and staff joined in to pay tribute to the illustrious career of Mr. Soomro.


Habibullah Soomro with his former colleagues at the farewell party


## Farewell dinner for M. Ziauddin

Billing Department veteran M. Ziauddin retired from service after serving the Company with distinction from 1980 to 2010. The Billing Department, led by Major Mohammad Akhtar (R), GM (Billing) gave him a resounding farewell dinner at a local restaurant on April 2, 2010. Mr. Ziauddin was also presented a memento and a gift by his colleagues as a token of love and respect.


## Wedding Bells

The wedding of Mr. Adnan Saghir Siddiqui, AGM (Services) with Ms. Rozilla was solemnized on April 13, 2010 in Karachi. We congratulate the couple on their marriage and wish them all the happiness in the world.


## Training programs form the core of the efforts

## CP Department takes lead in UFG-reducing steps

SSGC being the pioneer gas transmission and distribution company in Pakistan truly understands and realizes the importance of corrosion protection on its Above and Underground Pipeline network (AUPN). Corrosion not only damages the pipeline but also causes heavy gas and human losses along with contributing to the environmental pollution. In transmission pipeline network, a minor gas leak announces its presence by whistling loudly due to high pressure and at the same time it can cause huge loss in a very short time as compared to low pressure distribution pipeline gas leak.

However, due to the low pressure the AUPN gas leaks are comparatively silent and are not easily detectable. Therefore, special tool, equipment and survey techniques are used to detect gas leaks on AUPN. Besides the above mentioned losses, corrosion also causes;

- Increase in Unaccounted for Gas (UFG)
- Gas interruption to our valued customer, creating inconvenience and mental stress
- Reduction in the production of commercial and industrial customer
- Affecting overall country's economy and progress with many other indirect commercial losses
- Waste of company resources on remedial and rectification measures taken.

All these losses arising on the part of corrosion could be controlled and reduced through strict compliance with quality control during new construction and pipeline maintenance activities through Cathodic Protection on underground steel pipeline network. Because CP system is not effective on above ground steel structures and pipeline network, therefore suitable paints are used to prevent shield corrosion.

Over the last few years the increasing percentage of UFG is of great concern to SSGC and all efforts are being taken to reduce it.

The CP Department is also striving hard by keeping a strict eye on the standard of new pipeline construction work by ensuring quality workmanship and regular maintenance for an uninterrupted operation of Cathodic Protection systems. In this regard the following activities are carried

out as per the OGRA' directives;

- Inspection of tape coating application on small diameter line pipes at Khadeji camp coating yard
- Monitoring quality control on new pipeline construction projects by providing prompt CP cover
- Frequent inspection of CP Stations to monitor their performance and maintain minimum interruption of power supply, including replacement of commercial power supply with reliable DC power supply units
- Carrying out close interval potential (CIPS) and other pipeline coating inspection survey to detect bad coating and carry out bell inspection to physically check the pipeline integrity at hot spot
- Rehabilitation of bad coating segment to prevent the pipe from soil contact. Consequently reducing the probability of corrosion to save CP current and spread the effectiveness of CP system over a greater area of pipeline network
- Providing CP Technique training to CP, Maintenance and Pipeline Engineers creating awareness about the source and causes of corrosion. Long term impact of quality control for reducing UFG and understanding CP techniques
and its importance to combat pipeline corrosion. In this regard, continuous CP training programs are being arranged through Gas Training Institute (GTI) at Karachi Terminal. Recently a five-day training program was conducted by Mr. Muhammad Saleem Manghi Chief Engineer CP, Distribution Sindh at Regional Office Larkana in which theoretical and practical aspects were touched upon. For a practical demonstration, participants visited transmission main pipeline valve assembly and CP Station at Repeater Station, Larkana.

The participants individually recorded various CP readings at different pipeline locations and CP Stations to practically understand the working of cathodic protection system.

The visitors appreciated the well maintained house keeping at Larkana Office and praised the hospitality and efforts made by Mr. Ghazi Anwar, Incharge, Shikarpur Headquarter (Transmission).

Courtesy: Muhammad Saleem Manghi Chief Engineer CP, Distribution Sindh

# Tragic assassination of Khalid Mahmood Malik condemned 

Khalid Mahmood Malik, Chief Manager (Customers Relations) Quetta Region was gunned down in Quetta by some unknown I armed men on Monday April 5, 2010, while he was leaving his home for office with his driver. Both of them sustained multiple bullet injuries and while they were being shifted to the hospital, Khalid succumbed to serious wounds. The driver Naseem who was seriously injured was later successfully operated and is recovering fast. The armed assailants made good their escape.

As the news of Khalid Mahmood's Shahadat spread, his colleagues in regional office, friends and relatives rushed to the Civil Hospital. Dr. Faizullah Abbasi, MD, SSGC directed the senior company officials to immediately proceed to Quetta to condole the family of Khalid Mahmood on his tragic death.

The delegation comprising of Brig. ( R ) Mukhtar Ahmed, DG (Security), Abdul Maijd Malik, AGM (HR), Major Mohammad Akhtar (R), GM (Biling), Aminullah Khan, GM (CRD), Fayyaz Merchant, AGM (Sales), Shahabuddin Siddiqui, General Secretary

## Transitions

- Mother of Mr. Umair Khan, former MD, SSGC passed away on April 22, 2010.
- Mother of Sq. Leader (R) Anjum Ali Kazmi, Dy. Chief Manager, Medical Services passed away in April 2010.
- Mother of Syed Irtiza Ali of MM department left for heavenly abode.
- Syed Elias Shah, former Manager (Finance), SSGC and father of Syed Fayaz Shah, DCM (AFU-Billing) expired in April 2010.

May the departed souls rest in eternal peace. Ameen

## Fast track work appreciated

In a letter to the MD, Dr. Hoshang S. Anklesaria, Chairman and Managing Trustee, Goolbano and Dr. Burjor Anklesaria Nursing Home lauded SSGC's Distribution, Sales and RA Departments or providing gas for captive power generation at his hospital.



SSGOA and Ejaz Baloch, President Peoples Labour Union (CBA) visited Khalid Mahmood's residence in Quetta and sympathized with his widow and younger brothers. They conveyed MD's message and expressed their grief on the sad demise of a very efficient, hardworking and loyal officer. The contingent offered fateha and prayed for the departed soul to rest in eternal peace. A. Majid Malik, AGM (HR) informed the family that on the special instructions of the MD, the management is strongly considering to offer employment ।
to one of the children on humanitarian grounds on top priority basis. DGM (D) Balochistan, Haroon Rasheed and other senior officials of Quetta Region were also present on the occasion.

Meanwhile, on the appeal of Shahabuddin Siddiqui, General Secretary SSGOA, the officers and staff of SSGC registered their strong protest against the tragic murder of late Khalid Mahmood in the regional and zonal offices located all over Sindh and Balochistan. A large number of officers and staff assembled at the Head Office to offer fateha for the departed soul.

On this occasion, Dr. Ejaz Ahmed, President SSGOA, Irfan Jafery, Vice President, Shamsul Haq Kakar, Regional Secretary Quetta and Saeed Khan, Vice President Peoples Labour Union (CBA) addressed Peoples Labour Union (CBA) addressed
the gathering and demanded early arrest of killers. Such protests were also held at Quetta, Hyderabad, Nawabshah and other SSGC offices.

Courtesy: Inayatullah Ismail - DCM (MR) Corporate Communications

## Businessmen meet senior management

Prominent businessmen Nisar Shekhani and Salim Parekh visited SSGC in April 2010 for talks with its senior management. Dr. Faizullah Abbasi, MD, SSGC, Azim Iqbal Siddiqui, DMD (C \& FS) and Syed Hassan Nawab, DMD (O \& P) participated in the talks


## Management meets CNG Dealers Association

CNG Dealers Association led by its Chairman Abdul Sami Khan, visited SSGC in April, 2010 and held useful talks with the Company management Syed Hassan Nawab, DMD (O\&P) and Zahid Mumtaz, ASGM (CS) along with other GMs and DGMs discussed matters of mutual interest with the delegation


## Khalid Mahmood's assasination condemned

SSGOA office-bearers and members staged a protest meeting against the tragic killing of Khalid Mahmood, Chief Manager, Customer Relations, Quetta Region. The SSGOA and PLU (CBA) office-bearers also talked to the media on the occasion


## Reception for PLU from SITE workers

SSGC's SITE workers gave a grand reception in honour of People Labour Union (PLU), CBA office-bearers in the office premises. They presented gifts to the office-bearers. The high point of the reception was the conferring of a gold crown to Ejaz Baloch, President, PLU by the SITE workers


## Reception for PLU office-bearers

PLU (CBA) office-bearers led by its President Ejaz Baloch were given a dinner reception by Malik Brothers of SITE office for successful passage of the Charter of Demands


## Activities of CP Department Nawabshah

Department Nawabshah recently carried out the commissioning of CP station by installing a thermoelectric generator at 4" dia SM Noushero Feroze near village Malhar Khan Rajper to provide uninterrupted protection for pipeline. Pictures show Nadeem Ahmed Memon, Sr. Engineer with Supervisor Sagheer Ahmed for data collection of CP Station at Village Malhar Khan Rajper, Padidan.

Picture combo also shows the two dedicated Nawabshah officials physically inspecting the new village scheme of 4" dia SM Manjuth to Darbelo to monitor the overall activities and measures taken for pipeline protection


## HR-OD holds UFG orientation

Adnan Rehman, DCM (HR-OD) addressing executives as part of the HR-OD's awareness program on UFG reduction at the Head Office



## MP\&NR official's visit

Choudhry Afzal (second from right), Section Officer, Ministry of Petroleum and Natural Resources, GoP visited SSGC Head Office in April 2010. Here he is seen with Zahid Mumtaz, ASGM (CS), S. Nasreen Hussain, DGM (CCD) and Ather A. Siddiqui, DGM (CRD) at DGM (CCD)'s office.

## Mr. Rashid elevated

Haroon Rashid, the newly designated DGM (Distribution-
Balochistan) receiving his promotion letter from Salim Ahmed Mughal, SGM (D) in the latter's office


## Ghumman lauded by MD

Dr. Faizullah Abbasi, MD, SSGC gave a cash award to skipper of Pakistan Under-19 Cricket Team, Azeem Ghumman, a vital member of the Company's Cricket Team for leading his side to the final of the recent Under-19 World Cup.

## CANVAS



## FLAME

## 8 ways to help yourself and others

## How to ask for guidance

Whether you're looking for relationship insight or career counseling, ask yourself three questions: Does my adviser value the same things I do? Does he have a stake in the advice? Does he know what he's talking about? For example: When a mechanic says your car needs more than a tune-up, you might get a second opinion. In fact, always get a second opinion, whether it's about your car, your health, or your teenager.

## How to give guidance

Do it cautiously. Most people don't want advice unless they ask for it. When your advice is asked for, avoid answering too quickly, listen carefully to your advisee's account of the situation and answer based on what he should do not necessarily what you would do, and determine what the recipient really wants.

## How to deal with anger

The three best ways to cope with your anger (and avoid the defibrillator): One, recognize that anger is universal. Second, ask yourself if whatever made you angry is important. Third, talk yourself down.

## How to survive

Former lawyer, mother of four, and wife of US former presidential candidate John Edwards, Elizabeth Edwards, 60, has endured the death of her beloved son Wade at 16 , the recurrence of her breast cancer, and most recently, public revelations about her husband's private behavior on the campaign trail. Among her rules for living: Adversity is everywhere. But so are examples of people who are making a meaningful life from the materials at hand. This is what life is, feel it all. Take comfort where you find it.

## How to take feedback

If someone is giving you feedback, make

him or her feel that it's okay to do so. If i information-on even everyday matters-for you act defensively, get angry, or push ' effect or self-protection. To inculcate back, your adviser will make a note to self: , honesty (in yourself and in others), think "I won't be doing this again." If you make I it hard for others to give you feedback, then your colleagues and friends will avoid you but act on their feelings anyway. It will help if you think of feedback as simply data. Keep it in perspective. You want to combine it with a hundred other pieces of information. Don't supercharge any one piece of it. Use it as a clue.

## How to give feedback

"The \# 1 rule of constructive criticism is again make the other person feel safe. You've got to let that person know you care about her success while you're ' addressing your concerns."

## How to be honest

Nobody actually wants to be a liar. But it's just so easy to fudge, blur, omit, and recast '
about values ("What kind of person do I want to be?"), not rules ("I should not ..."). More pointers: Own up. Honesty is more than not telling lies. Think of the children. As a grown-up, you set the terms. Accept, and vow to change. You're honest when you do the right thing even when nobody is looking.

## How to help a friend who's lost her job

There's no shame in losing a job, so don't give a laid-off friend the puppy dog-eye treatment. Act the way you always do. DO be the first one to reach out, make supportive comments that remind her of her value and offer to start strategizing and networking as soon as she recovers. DON'T treat her like a charity case, offer platitudes, or engage in tough love.

## Unconventional gas resources and opportunities for Pakistan

Global natural gas demand is expected to rise to 4.3 TCM in 2030 from the current demand of 3.0 TCM. More than $80 \%$ of this increase will take place in countries outside OECD, in developing nations, including Middlle East, China, India and Africa and mostly in their power sector. Global gas reserves are huge enough to meet the conceivable demand through 2030. The global recoverable gas reserves are 850 TCM, of which $45 \%$ is unconventional gas (shale/tight gas, offshore ultra deep water and CBM).

US natural gas market is the largest in the world and has expanded significantly since the mid-1980s. As conventional producing area matures and as demand growth continues, new productive capabilities in Artic, offshore Atlantic Canada, coal bed methane, tight/shale gas and deep gas holds the future. In North America, increased natural gas production will come from unconventional sources, mainly shale gas, coal bed methane (CBM), offshore ultra deep wells, etc. Current natural gas production in US including CBM, LNG and shale gas is 58 Bcfd, whereas USA's gas consumption is around 75 Bcfd. The shortfall is met through import of gas from Canada, Trinidad and LNG from Algeria.

The offshore Gulf of Mexico (GOM) is one of the foundations of US natural gas and oil productions with 10 Bcfd of gas production and 1.5 MBpd of oil output as of today, supplied through 30,000 miles of offshore pipelines. However, all this is coming through shallow waters of Texas, Louisiana and Mississippi. Yet to be discovered are untapped wealth of 230 Tcf of natural gas and 45 billion bbls of oil which lie at depth varying from 10,000 feet to 28,000 feet water depths of GOM. Technologies are to be developed to cater to temperatures exceeding 350F and ultra high pressures of 10.000 pounds per sq. inch. Corrosion resistant nickel, chromium and titanium alloys are being developed to handle extreme operating conditions.

## Growth of unconventional gas resources

The US revolution in shale gas extraction has fundamentally reshaped the entire gas market. The US gas production grew 3.9 \% last year. There are at least 24 substantial shale-gas reservoirs in North America with recoverable reserve estimated to be as much as 800 Tcf. Shale gas can be

produced economically at well-head prices I ranging between $\$ 3.50-7.50 / \mathrm{MMbtu}$. The variation is primarily a function of reservoir characteristics. US shale gas production grew to 6.5 Bcfd in 2009 from 800 Mcfd only in 1998; this steep increase was only possible due to fast track development in drilling technology and use of innovative methods.

Shale is the sedimentary rock consisting of clay and silt-sized particles consolidated with simultaneously deposited organic materials. The deposits are compacted by subsequent additional sedimentary deposits into thinly layered shale rock. The layers have limited horizontal permeability and extremely low vertical permeability. Initially when only vertical drilling technology was used, the hydrocarbon recovery from shale deposit was about 20\% of initial gas in place. However development of horizontal drilling has proven to be effective for shale reservoirs for gas recovery. A horizontal well penetrates 2,000-6,000 feet or more of a formation, while a vertical well will only expose the thickness dimension of the reservoir. Horizontal drilling reduces the number of wells, thus reducing the impact on the surface environment. A typical shalegas development will require six to eight wells/sq mile of horizontal wells, while at least 16 vertical wells would be required for the same potential production rate. In addition to simply having fewer well sites,
the horizontal well development will require fewer access roads, pipeline routes, and production facilities. Shale-gas hydraulic fracturing however consumes much higher primary water, about 4.5 million gallon of water per well.

Shale-gas potential: Shale-gas production activity is occurring in many places in USA but the primary current production is in Texas from the Barnett formation. Barnett shale production in the US has reached 4.0 Bcfd. Canada is also developing very large shale-gas in British Columbia, in addition to already producing coal bed methane projects. The European Union too has begun to think of shale gas as the high road to energy independence or else Europe will be left at Russia's unpredictable mercy.

Pakistan also has large potential to develop shale/tight gas. Recoverable reserves of this gas are estimated at 20 TCF. However a new protocol will need to be developed to provide investment incentive to gas producing companies.

Shale-gas production technology is on a steep development curve and further improvements will certainly enhance the economics of shale-gas. Drilling costs are clearly a function of formation depth, surface conditions and formation impacts on horizontal drilling techniques.

Projects in the Barnett development report combined drilling and completion costs ranging from $\$ 3$ to 5 million/well. However, projects in the Woodford of Oklahoma are reporting costs of \$7-8 million/well with extended horizontal laterals of up to $7,000 \mathrm{ft}$.

Clearly the shale-gas industry has huge potential but at the same time has many uncertainties that remain to be resolved. The industry is in its infancy, however, having only become commercial in the last 10 years. Some projects report the ability to produce shale gas economically at prices as low as $\$ 3-4 / \mathrm{mmb}$.u. It appears that a sale price of shale gas into major trunk line in the USA at rate of $\$ 7 / \mathrm{MMbtu}$ will provide a $15 \%$ internal rate of return with the following assumptions; Drilling and completion costs/well US\$5.0 million. Average production rate $3.7 \mathrm{mmcfd} / \mathrm{well}$, with well spacing of 100 acres and operating costs of $\$ 3 / m m b t u$. These analyses include financing costs at 4.5\%. Naturally the model is sensitive to average production rates, operating costs, and drilling costs.

## This analysis would suggest that shale gas can be expected to enter the US and other world markets in large volumes with further improvement in technology and operating techniques and lower costs.

## LNG has to compete with shale gas:

Entry of shale gas at competitive price in US market has dampened the entry of LNG in US. At this point new LNG production capacities installed at cost of billions of dollars in Qatar, Egypt, Algeria, Africa \& Australia exceeds volumes currently committed to long term sales and purchase agreements, thus making surplus LNG available for export to other global markets. The ability to receive and consume additional LNG is primarily Europe. The US

| The figure illustrates the difficult condition in which drilling for oil and gas will be carried out in near future in offshore areas of Gulf of Mexico, Brazil and East Africa. |  | - Storms and hurricanes <br> - Loop and eddy currents cause vortex induced vibrations and motions to drill strings <br> Unpredictable high-oressure gas-charged stringers and faults near surface <br> Mobile/flowable/dissolvable 10,000' thick salt canopy with unpredictable layers of highly variable trapped sediments <br> Unpredictable base of salt rapid pressure differentials <br> - "Thef zones" of significantly lower pressure, which cause lost carculation - fluid loss <br> Ultradeep reservoir with high temperatures, up to 15,000 pounds per square inch of pressure, and relatively low natural flowability |
| :---: | :---: | :---: |

,India, China, Japan and Korea are essentially fully supplied by their long-term sales and purchase agreements and have little appetite for additional LNG at current market pricing.

Pakistan can gain from the current status and acquire LNG at very competitive rates provided it works on fast track basis to establish LNG unloading, storage and re-gasification facility. The LNG receiving facility is capital intensive and in present condition will require investment of US\$ 600-700 million.

As of current year, the US had nine LNG import terminals operating with direct pipeline access in to the pipeline grid. Commissioning was under way on another offshore terminal, GDF Suez's Neptune in Massachusetts Bay; construction is nearing completion at Exxon Mobile's Golden Pass terminal in Texas along Sabine Pass. Canada Canaport in New Brunswick and Sempra Energy's Costa Azul in Mexico's Baja target most or some of their volumes for the US markets.

US LNG import terminals are largely underutilized. They have the capacity to import four to five 155,000-cu m LNG carriers/day, equivalent to 15 Bcfd of regasified LNG or $100 \mathrm{MT} /$ year which is almost $50 \%$ of global LNG production capacity of the year 2009. However, the maximum LNG imported by US annually has not exceeded 5.0 Bcfd.

In 2009, natural gas consumption in China was about 7.3 Bcfd which is expected to grow to 18.0 Bcfd by 2020 and most of the increased demand will be met through import of LNG and from piped gas imported from Turkmenistan and Kazakhstan. In view of the present global gas glut, Russia is also eyeing to supply East Siberian gas to China through pipeline.

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## Positive Thinking

An optimist will find an opportunity in every difficulty, and a pessimist will see a difficulty in every opportunity. Opportunities are in plenty, and are flying around us from all directions. We have to open our eyes wide to see them and grab them.
Be assured that in every difficulty there is a hidden advantage. We have to find comfort in the available facilities and then try to improve upon them. If one simple dreams of a situation where no problems exist, I would say he is foolish. We live in a competitive world, full of challenges. Fight them all using a weapon called OPTIMISM. This is the right attitude to tide over a problem.
The difference between optimism and pessimism can be illustrated by a well known simple example. There are two persons who are thirsty and we offer them each half a glass of cool water:

A pessimist or a man with negative thinking will say, "How unfortunate I am! I have got only half a glass of water".
On the other hand, optimist or a positive thinker will say, "How fortunate I am! I have got a least half a glass of water." The situation and the facility available are the same to both of them. But look at the way they see things.

Discontent with the available facility or cursing one's own fate and waiting for a lucky break is not the correct approach to life. Work hard, making use of the available facilities and win over difficult situations. This is the right path to success.
Analyze any success story and you will see that luck plays only a very minor role. The basic ingredient of success is positive thinking.

By Khawaja Naveed, DM (IT)

## Academic Achievements

Inshal Fatima d/o Sarfraz Ahmed, Telephone Technician, Telecom/ SCADA (HO) secured $91 \%$ in her Class II Examination from Occident Grammar School.


Bushra Sarfraz d/o Sarfraz Ahmed, Telephone Technician, Telecom/ SCADA (HO) secured 3rd position (98.30\%) in her Junior Class Examination from Occident Grammar School.


Shafaque d/o Ghulam Ali Shaikh, Engineer, CP-R.O. Hyderabad, secured 1st position (99.4\%) in her Class KG Junior Examination from Isra School.


Awra Aysha d/o Ghulam Ali Shaikh, Engineer, CP-R.O. Hyderabad, secured 2nd position (96.80\%) in her Class I Examination from Isra School.


Aisha Shaikh d/o Naik Mohammad Shaikh, Dy. Chief Engineer, CP-R.O. Hyderabad, secured 1st position (97.95\%) in her Class II Examination from Anna English High School.

Aresha Ali d/o Ali Mohammad Memon, Engineer, CP-R.O. Hyderabad, secured $81 \%$ in her Class I Examination from The Educator.


Kinza Imtiyaz d/o Naik Mohammad Shaikh, Dy. Chief Engineer, CP-R.O. Hyderabad, secured 2nd position (86\%) in her Class I Examination from Public School, Sukkur.


Farhad Ali Memon s/o Ali Mohammad Memon, Engineer, CP-R.O. Hyderabad, secured A plus grade in his KG-1 Class Examination from The Educator.


Tooba Salman d/o Salman A. Siddiqui, Dy. Chief Manager, CDD, secured 85.11\% in her Class I Examination from Sunbeams
Grammar School.
Ebaad Salman s/o Salman A. Siddiqui, Dy. Chief Manager, CDD, secured 80\% in his Class III Examination from Sunbeams Grammar School.


Khadija Hasan d/o Abul Hassan Suhriani, Sr. Engineer, Measurement Dept. secured 2nd Position (96.1\% ) in her Class VIII Examination from The Education

Centre.
Muhammad Hasan Khan s/o Abul
Hassan Suhriani, Sr. Engineer,
Measurement Dept. secured 5th Position (87.3\%) in his class V Examination from The Education Centre.


Ifsah Siddidui d/o Khalil Ahmed, Supervisor, Driving, Land and Estate management, secured 2nd position (96.35\%) in her Class III Examination from Escort Grammar School.


Maha Baloch d/o Nazakat Ali Baloch, Zonal Manager, Billing Office City Zone, secured A plus grade and 1st position in her Prep Class Examination from D.A. Model High School.

Vraa Tahir Khan d/o Tahir Khan,
Superintendent,
Stores, Meter Plant, secured 1st position (96.32\%) in her Class VIII Examination from Crescent Bahria Cadet School.


Adeeva Rani d/o Amir Alam, Asst. Manager (HR-Ops) secured 3rd Position (Grade A+98.4\%) in her Class Nursery Examination from Little Hearts Kindergarten Primary \& Secondary School.


Hareem Salman d/o Salman A. Siddiqui, Dy. Chief Manager, CDD, secured 2nd position (80.57\%) in her Class IV
Examination from
Sunbeams
Grammar School.


Pakeeza Sultan d/o Sultan Ahmed, Asst., SSGC Liaison Office, Islamabad passed her Class 4 Examination from Al-Quran Modern Educational Academy, Balakot attaining 94\% marks.





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جاكتُر فهميده مرزا اسييكر قومي اسيمبلي بدين ير نندو ئ كوسكي ئ
 فراهمي جو افتتاح كيو. افتتاحي تتريب جو انعقاد 22 إريل 2010 تي تيو. جنهن مي ايس ايس جي سي جي آفيسرن كانسواء مقامي شهرين جي وذّي انگَ شركت كئي سنّ جي گَمرو وزير ير قومي اسيمبلي جي

 محمد هاشر ايسايس جيسي جينينمائندكيكئئي. كيس پائبٍ چراجيكت جي تحت علائتي يُ "6 ئ "4 قطر جي 23,000
 كلوميتر جستري بيوشن پائيپ لأين وهائي وئي اهريّي ريت نندو ئ كوسكي ير كل 40,685 كلوميتّر دِكهي پائيي لائين وحائي وئي.
 جاثائل منصوبي سان نندوي كوسكي جي 1175 كانوتيك طارفين كي
 بي پاسي پوتري دين محهد ئ جان محمد ويرّهو جا 370 كان وتيك صارفين ان منموبي سان مستثيد تي سكَمندا. جتي "4 قطر جي 6.3 كلوميتر جي مين سلائي ئ "3 ئ "1 قطر جي بستري بيوشن مين لأين

 25.358ملينرويبيآهي.

 جاكتر صفدر علي عباسي، هارون خان مير محبت خان اسماعيل بليدي، برويز راشد ئ شاهد حسن شركت كئي
 ورتو ء مئنجمينت پاران پاكستان ״مشعل" پراجيكت تي تي ترت

 جي گهنتّائي كي پورو كرث لاءٍ مؤثر منصوبن تي كمر جاري ركي





 باري مر سينيت جي اسنيدنتگ كمينتي پيينتروليم پ قدرتي وسيلن
 2010 تي كمپيني هيدب آفيس جو تفصيلي دورو كيو. اجلاس جي صدارت اسنتيندنگگ كمينتي جي چيئرمين صابر علي بلوتج كئي ايس ايس جي سي جي ايم بي جاكتر فيض الله عباسي پ عظيم اقبال صديقي بي ايم بي (كسنّمر ايند فنانشل سروسز) سينينترز كي موجوده تُرانسميشن 介 ج جسنري بيوشن جي منصوبنع سپلائي سروسز
 جاث فراهم كئي كمپیني جي اعليُ انتظاميب سينينترن كي لائين جي
 لاءٍ كنيل قدمن كان بـ مكمل طور تي آكاهـ كيو



 بكاسك


##  <br>     كراورذنتّبيزاهاكا ابيساتجّنجريكاروكراياگيا       <br> كلوا <br>  <br> بينج（C．P）هيردآبا，

ك ميراجب：




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## Employees protest Senior SSGC official gunned down CM orders immediate arrest of culprits

By Our Staff Writer SSGC＇s vehicle to the office QUEITA：A senior official of from his residence located in the Sui Southern Gas Comp－the Satellite Town at around any（SSGC）Malik Khalid 08：15 AM when some unkn－ any（SSGC）Mas whot dead while his own armed men appeared on Awan was shot dead while his own armed men appeared on
driver was injured by some the scene on a motorbike and driver was injured by some the scene on a motorbike and
unknown armed assailants in resorted to an indiscriminate Satellite Town on Monday firing targeting the vehicle．As moming．
The police said Chief driver Naseem sustained thanager Billing $\$ S$ SOC Khalid multiple bullet injuries．While Aluan was riding in his official Continued on Page 2


QUETTA：Dead body of Chief Manager BillingSSGC Khalid Awan，who is killed in the target killing inci－ dent in Satellite Town．B．T Photo
 '! 'اليمن جي اهرّز نتصان زده حصن كي حفاظت (Protection) ' ', 'وجي تي جيكي زمين جي اثراتن يا بي كن الهن سبب '| جيكري وقتن فوقتن ييدا ثّيندا رهن تا ان ان حوالي سان مختصرن اهو هئجي تـ استيل هائِ لائين كي زينگ

 |' جي ضرورت يوي تيّي هك أندازي موجب C.P ود كان



 !
 يا گرت بلاست Grit Blast وسيلي صاف كيو ويندو آهي جنهن ير طاقتور ايئر كمبيسريسر مي مدر سان هك مخصوص طريقيكار وسيلي يا وري كرت كي هوا جي زور سان تنگ نالي Nozzle مان كذاريو

 آ آهي تـ ائيل جي سطح تي موجود سخت كان سخت إزنگ بـ لهي وجي توي؟ پائي جي سطح صاف يو


مضبوطي سان جهلث ير مدد دّي تيّي سيندب بلاست يا كَتْ باستّ ير سليكا واري يُنامي جا مناسب گهريل تقريبن كنب جي دالثّي برابر مابيا ذره استعمال كيا ويندا آهن: پائي لاثين تي كوتنی

كيئودك يروتيكشن بسنّريبيوشن (سنز) حيدرآباد جي نگراني ي رتابندي هين مختلف بإيا (قط) جين

 تو ت جيئن بغير ضايع تينّ جي گيس كي كي محترير صارفين تائين نهجايو ويي هتي اهو ياني
 سسنّر جواهر جزي مديكار سمجهيوريجي تو. سنذي بيدا تيندرٌ گئس موافق يعني صاف گيس هوندي آهي تنهنكري انهي ير بائب لآين جي اندروني سطح كي

زنگ آلوده كرث وارا عنصر سلفر (كاربان مونو
 زمين كئس بائّ لآين كي باهرين سطح تي زنگ
 آهي تـيائب لاثين جي باهارين سطح تي تمار سني


 جي زيرنخرانيكاديجي كوننگ يارد يرهلي رهيوآهي. ير پائي لأين تيهيستائين جيكاكوتنا SSGC كرائي وجي تيتنهن يركولّنار (Coaltar) ايشفالت , 3 LPE تنتهنواري (Asphalt) يولي اتيلين(Polyethylene)جي كوننگ شامل آهي،جيكا فيكتري ير آنومينگ مشينن سان اعلي', معيار مطابق استيل لائي تي لجإئي وجي تّي كنيّن بـ طرح كوننگ كرث واري شروعاتي عمل يُ يائي جي سطح كي لازم مكمل طور صاف كرثّ ضروري آهي تج جيئن زنـگ، متي، حكنائي يعني تيل، گريس






كار سان بائپ لاتين تي لجايو وجي تو ت جيئن


ماحولياتي اثر برداشت كري سكهي كوتيبِيائِّ جي ويلب جوائنّنّ تي هيّن شرنك سليو (Heat Shrink Sleeve) جيكي ماحولياتي اثر برداشت كري سكهي.
 متيريل مان تيار تيل هوندا آهن جن كي بائيب لأين
 ويَّهي باهر جي شعلي جي تيش وسيلي سسائي كري

پائي لآين تيمضبوطيء سان هنبر|'ايورجي تو. متي جائايل جيكي بـ كونينگ سسنّر آهن تن ير پائِ لآين جي صفائي واروعنصرنهايتبنيادي|هميت
'| هن سلسلي ير كوتنٍ جي سروي يك مرمت بابت |' وتيك احوال انشاءاء الله آئنده جي آرتيكلي ير بياني ا إيندا تـ جيئن ود كان ود دوستن كي آكاهي تئئي هي مفيد معلومات محترر محمد سلير منگي صاحب
جيف انجنيئر (C.P) دستريبيوشن سنذ جي تعاون ا



 '
 !! مئنيجر (CP)، حيدرآباد.
 مينوفيكهرز جي بتّايل طريقيكار مطابق كتّب آثّ ضروري ي ان بَالهُ جوخيال ركط لازمي سمجهيويو تو ت كوتنگ
 بائٌ لامن جي زندگيءً جي ضمانت آهي. جيئن تـ كذريل مهيني وآري آرنيكلير ير

 كوتيبر يائب لآين جي اهرّن ن نتصان زده حصن جي حفاظت كندي آهي جتتي يائب لاين جين كيوني

 سبب بنجي تو. هن سلسلي كي وتيك إتني وتائيندي


إيس جي اير (MS) سلير احمدمغل، ايسجي اير
 (كستمر سروسز) شوكت بلـيرج اي ايس جي اير (ترانسميشن) شاهد إيج. جعفري. CFO يوسف جيا:نصاري، كمبني سيكريتري ماجد ملك. ايجي اير سروسزئي جإكتراعجازازاحد

PSO قور اسيمبليجي اسييكر بيدنجي شهرن كي كئس

ذّيّْجو افتنتاح كيو.وموي اسيمبلي جي اسبيك
|باكترنر فهييدمرمزا بلين ضلعي جي شهرننديوي
 محمدي جان محمد ويثرّ كي سوئي كئس جيف فراهـي
 تيمنعدتّيون بن ير سوئي سلدرن كئس كمبن جي
 اشركت كئي انين افتناحي تقريبن ري كهرو كاتيجو صوبائي وزيري يا يناي اسبيكرجورور باكتير ذرالنقار مرزا ئ موحودهو: SSGCجينمائندي بين كانسواء مشتاق صديتي AGM (D) سنتّي
 كوسكي ير 40 هزار 658 كلوميبيرنجي ناصلي جي جملي بائيب لاين سميت كئس بائيب لاين بررجيكت لاٍٍ 06 انعي 04 انجّطرجي 23000

 كتيل لآجِّت 119.706 ملكين ريبيا آهي جن سان ننيوي ي كسسكي 1117 صارفين كان ورّيك كي
 محمد ويثرّ جي بُجْن بر 370 كان وتيكارصارين كي ائلدوريهنجن. جتي كل10254 كلوميترن جي جملي يائيب ويْ
 جي "3ي "1 ${ }^{\text {" }}$ ويندي برويكتِجي كتيل لآتّت25.358ملين ريبا آهي.


مارج2010 كي SSGC ميترمينونيكجرنگ بالانتس جي تاريخي هر سي كان وتيكي بئداواري مهيني جوا أغزاز حاصل هوندو. جنهن بر 78000 يونتس يشش كيا ويا هئا. هن اهر حاصاتات


حدن اندر جإكتير فضل اللهع عباسي اير بي. جيا مهمان خاص طور شركّت سان هـك تقريب منعتد كئي وئي كمبني جي سينئر


CBA جنهنجو انتظار مدني صديقي ADGM(MP)

 530000 يُيس 2000جي-4مييرس ناهيا وياهئا.
 بابت اير بي. SSGC كيوت هك انجنيئر طور هن سخت محنت كري هـ منتّ إر 5 ميتر ناهيا جيكي هر لحاظ سان هك ورّي حاصاتات آهي اير بي 1990 رير كمبني جيميتيريلانت ير رينهنجي وقت كي سارهيندي شيوتر مينرير ير



 جيمسئلي بابتصحيحصورتحال جي خبريوي. اير بي موقعي تيموجود فلور مزدرن كيجيونير هومييرجي مستقبل جي ستارن لاٍٍ تجويزين ذين خاص كري PUG (غير رجسترد كُشي كذرث بابت) انجي هك تعرادر جاثائن. تـجيئن هن

مسئليجومستقل حل سامهون إي سكهي. سيئرمئنيجمينتّ جي سهكارلا لإسندن جا ثورا مييا هن جيوتر ميترجي حصن جي وقت سر انتظار ري مزوريري جي اثرائني رغبت سبب مينر
 رياض اختراعواثي حيئرمين ييبلز ليبريونين CBA.

جيوت, UFG كي كهنائنٌ لإِلازمكي ريت
 ميترّالانتس جي فلور انجنيئر مستر راشد. وركرز كلير صديقي P. PLU كي ملمائٌ جو كيك كاتيو سيد جي اير بي (آبريشنز ايندبٍ بلانـگ) (راهت كمال) صييتي. ايس جي اير (ES) ظهيرصديقي. (اهير


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