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MOTOR OIL

**ULTIMATE
ENGINE
PROTECTION**

**ADVANCED
FUEL
SAVING**

100% SYNTHETIC OIL

ILSAC GF - 5
Highest Fuel Saving Grade Oil

API - SN
Highest Performance Grade Oil

RESOURCE CONSERVING



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MAS

Making Tomorrow



02

CSR CORNER

LAUNCH OF FIRST
SABIRA HAMIDA SCHOOL

08

FWO

INSTITUTIONAL CUSTOMER
APPRECIATION NOTE

10

S.K ZIC

FORMULA 1 SOUTH
KOREA GRAND PRIX

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MESSAGE FROM MR. Y.D. CHAE

Dear Hi-Tech Team

Happy New Year

One of the greatest joys of last year was the opportunity to say, Thank You and wish you the very best for the New Year.

Also I really appreciate that the relationship and mutual trust is getting higher. Under the tough market situation last year, I was shown your excellent achievement and felt the potential of your company. That is the reason S.K ZIC business has been growing so fast. Whenever I was on a biz trip to your company, I got motivated from your company because of the dynamic of you and your staff.

Please give my best regards to your great staff
Blessings to you and your family on New Year.



Y.D. Chae
Vice President
Lubricants Business Division
S.K Lubricants

MESSAGE FROM THE BOARD OF DIRECTORS

As the fourth volume of the news letter shapes up in bringing you exciting company news, as well as information and data for assisting us in our learning process, we take pleasure in intimating the conversion of our group company HITECH Lubricants (Pvt.) Ltd a Private Limited company into HITECH Lubricants Limited a Public Limited Company. Bowing ourselves in gratitude to almighty ALLAH we commit to serve with greater vigor and fortitude.

Our vision in providing excellent client services and building team capabilities continues, we adapt to the new challenges and prepare ourselves to improve and grow. As the New Year arrives and our teams plan for the road ahead we wish them God speed and are confident of their forthcoming success. A transparent and efficient opportunity for the organization to grow is the ideal we seek.

Remembering the humble beginnings of MAS group, we treaded upon the path of hard work, endurance, difficulties and many a happy moments, all this leading to making life of our team members happy and contented. From a team of few members we have grown into hundreds in over three decades. Evolving in a home for our children and our clients children has led to enforcing our belief in relationship of caring and sharing.

MAS associates (Pvt.) Ltd and MAS services have been able to put in excellent work during the year, they continue to strengthen their existing engineering base, client services and look for new customers to serve. The two companies have during the year accomplished a number of difficult tasks and continue to strive for achieving greater success in their existing and future projects.

HITECH Lubricants Limited having achieved most of its goals set for year 2011 is now planning to cross the 1,00,000 BBL mark in the year 2012 with their brands ZIC and ZIPEX. This is a challenging task assigned by them, as most of the volume is intended to be derived from a small premium market segment in Pakistan. By the year 2015 we look towards them becoming a major lubricant player in the Pakistani market. The ability to launch new innovative lubricants which deliver efficiency and savings for customers has been the hallmark of the company besides bringing to the market simple and participative ideas that have made them leaders in creative marketing. We wish them our very best in their endeavors.

MAS Info Soft (Pvt.) Ltd is providing back office support, networking services and working with our software providers in providing seamless connection for within and

inter office connectivity as well as data storage and transfer. Their support has enabled MAS group to improve internal efficiencies within the group and in providing quality services to our customers.

We welcome on board Mr. Omer Farooq, Marketing Manager and Ms. Sadaf Saghir, Head of Internal Audit. Both these team members are capable and experienced professionals, we look forward to them in bringing a host of ideas and systems for the progress of the organization.

All efforts are being made by the news letter editorial team to make reading as useful, interesting and valuable for readers. We commend them for their efforts. We request our team members and clients to share their ideas for making the news letter more focused towards their interests.

Departments of accounts, finance, audit, human resource, supply chain, warehousing, engineering, administration, information technology, sales and marketing are undertaking their activities diligently while achieving their objectives. A vote of thanks to all members of our teams stationed in Lahore, Karachi, Islamabad, Peshawar and the field staff in numerous cities of Pakistan. We also extend our gratitude to all our customers for their trust reposed in us.

Wishing you season's greetings and a happy new year.

LET'S CHANGE LIVES WITH ILMGAH



With a bright vision to contribute to Nation building we proudly announce the opening of a Primary School with the name of IIMGah. This school has been launched under Sabira Hamida Trust established by MAS Group to provide quality education to the deserving children. The main objective is to keenly contribute for Corporate Social Responsibility (CSR) and light the candles of hope in many homes. With the formation of SHT – Sabira Hamida Trust our efforts will continue for making this world a better place to live.

ILM GAH, the first primary school in Green Town, was inaugurated on 9th September 2011 at Lahore by respected Ms. Sabira Azam as a Guest of Honour. Also present were the Board of Directors & senior staff members of the MAS Group of companies. The school staff has been selected and trained by the top quality consultant firm and all administrative procedures and policies are well up to the mark. We have received remarkable response from the parents and community members around the vicinity. Apart from quality curriculum, student-teacher interaction, playfields, classroom activities, dining areas and routine educational trips are just a few to mention. Students are entitled to receive free uniforms, books and other stationary items. All students have been enrolled by following a standardized selection criterion and within three months of school opening, the number of students have been increased beyond the expected targets. SHT will continue its commitment to improve the quality of life of many families, the local community and society at large and ILMGAH would prove to be the hallmark towards many social projects in years to come.



Col. Moeenuddin, Mr. Shaukat Hassan, Mr. Tamur, Mr. TahirAzam along with the Guest of Honor Ms. Sabira Azam (an educationist herself) at the inauguration ceremony of ILMGAH



Shining smiles on the faces ready to move forward towards the bright future



The senior members and the BOD MAS Group at the inauguration ceremony of ILMGAH



Mr. Shaukat Hassan presenting recognition certificate to teaching staff on completion of Teacher Training



Teacher-Student Keen involvement during classroom activity



Kids having an outday at KFC

MAS ASSOCIATES (PVT.) LTD

MAS - Symbol of Vision, Dedication Perseverance and Integrity

MAS Group progress has been achieved through vision, dedication & commitment by serving the best interests of our clients in & out of Pakistan.

MAS associates (Pvt) Ltd.

In the last quarter of 2011, MAS principals, M/s. V&M, France & M/s. VAM Drilling has received substantial orders, for OCTG (Casing, Tubing & Accessories)/Drilling Equipments (Drill Pipes & Collars) from the major E&P Companies & Drilling Contractors i.e. Pakistan Petroleum Ltd. (PPL), United Energy Pakistan (formerly BP Pakistan), MOL Pakistan and OGE Cracow Ltd. etc.

The pioneer of the natural gas industry in the country, *Pakistan Petroleum Limited (PPL)* has been a frontline player in the energy sector since the mid-1950s. As a major supplier of natural gas, PPL today contributes some 25 percent of the country's total natural gas supplies besides producing Crude Oil, Natural Gas, Liquid and Liquefied Petroleum Gas.

MOL Pakistan, a fully owned subsidiary of the MOL Group registered in Netherlands has been working in Pakistan since 1999. *MOL Pakistan* presently produces Oil & Gas from TAL Block as the operator of the concession. It also holds concessions for Margala and Margala North Blocks and has recently acquired significant shares in the Karak block as non-operating partner which is considered as another promising prospect for the future discoveries.

Repair/Refurbishment/Recertification (R/R/R) of Blowout Preventors (BOPs)

In Pakistan, MAS introduced the concept of Repair / Refurbishment / Recertification (R/R/R) of Blow Out Preventors (BOPs) in 2001. Since then, Cameron, Shaffer & Hydril BOPs have been repaired for various E&P Companies.



OGDCL Inspector, Mr. Tuaha Jamil inspecting BOP while it was under repair at WESCO A.D. workshop



Recently, R/R/R of Shaffer 13-5/8", 10K BOP has been completed for *OGDCL*.

OGDCL – The Largest E&P Company in Pakistan

OGDCL is the national oil & gas company of Pakistan and the flagship of the country's E&P sector. The Company is the local market leader in terms of reserves, production and acreage, and is listed on all three stock exchanges in Pakistan and also on the London Stock Exchange since December 2006. The Company is all set to ride the wave of E&P activity. Equipped with its Vision & Mission, Business & Strategic Plan, a debt-free & robust balance sheet and healthy cash reserves, the Company is ready to take on the challenges of a volatile E&P industry.

REVERSE ENGINEERING

Every industrial plant has a large number of Rotary Equipments i.e. Turbines, Compressors, Pumps, etc whose parts have been worn out over a period of time.

The end user is left with two options:

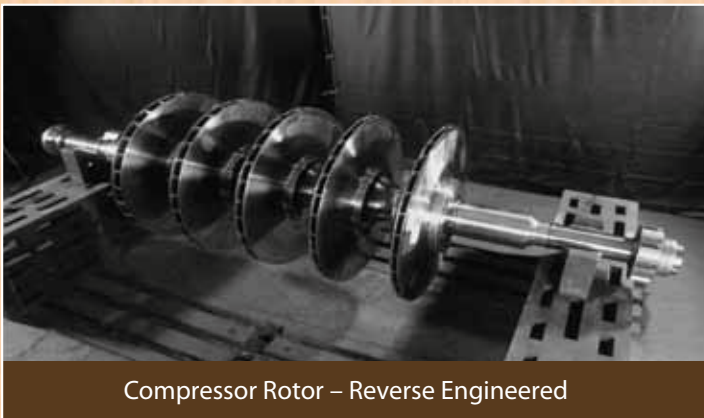
1. Either replace the entire unit – which is costly and lead times are longer

Or

2. To go for Reverse Engineering of the part that is worn out – which is cost effective and deliveries are much shorter.

Reverse Engineering enables the duplication of an existing part by capturing the component's physical dimensions, features and material properties. Before attempting Reverse Engineering, a well-planned life-cycle analysis and cost/benefit analysis is conducted to justify the Reverse Engineering projects. Reverse Engineering is typically cost effective for the items that reflect a high investment or is be reproduced in large quantities. Reverse Engineering of a part may be attempted even if it is not cost effective, where if the part is absolutely required and is mission-critical to a system.

The process involves measuring an object and then reconstructing it as a 3D model. The physical object can be measured using 3D scanning technologies like 3D Co-ordinate Measuring Machines (CMMs), laser scanners, structured light digitizers, or Industrial CT Scanning (computed tomography). The 3D measured data further helps in designing, prototyping, casting and machining the final component.

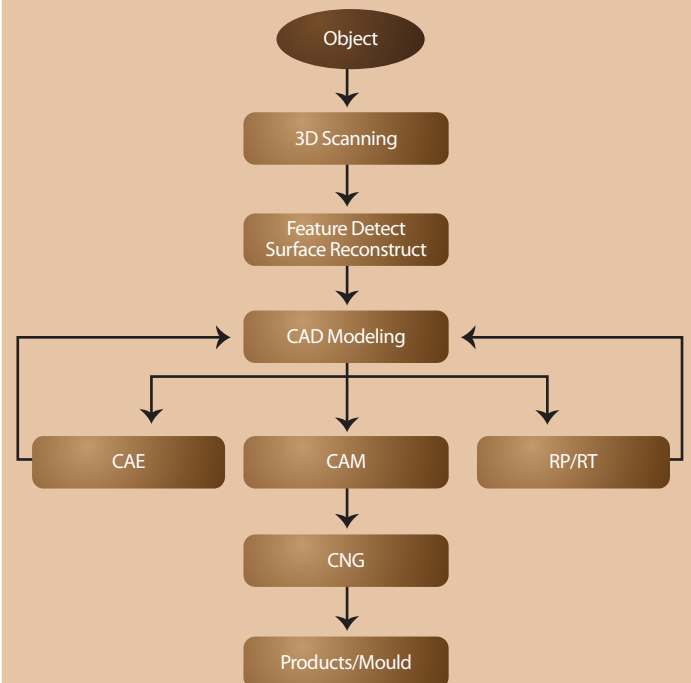


Compressor Rotor – Reverse Engineered

Reverse Engineering of Components is carried out where OEM is unable to provide spare parts due to obsolete model or offers higher cost with longer deliveries. **Reverse Engineering** provides quality engineered components (using advance metallurgy, if required) while customer is protected by the same guarantees as OEM's.

An order from Lalpir Power Limited has recently been awarded for the Reverse Engineering of Spare Parts of BFP Booster Pumps of a renowned OEM. The visit, of Technical Team to Lalpir, is being arranged for scanning of parts.

Process of Reverse Engineering



Legend:

3D : 3 Dimensional

CAD : Computer Aided Design

CAE : Computer Aided Engineering

CAM : Computer Aided Manufacturing

RP/RT : Rapid Prototyping

CNC : Computer Numerical Control

MAS SERVICES

PIONEERS IN THE FIELD OF CATHODIC PROTECTION & CORROSION MONITORING

MAS Services have been assigned a contract for the provision of complete Cathodic Protection System (Design, Material & Installation) by the Pakistan's largest Power Generation Plant i.e. International Power Ltd. (IPL) – Hub Power Station, Pakistan.

The Hub Power Station is one of the first and largest Independent Power Producer (IPP) in Pakistan, financed by the private sector in Southern Asia and one of the largest private power projects in the newly industrialized world. The total installed Capacity of plant is more than 1300 MW.



Hub Power Station (an aerial view)

Visit of International Power Delegation to Head Office

A brief presentation was delivered to the International Power delegation during their visit to the Head Office, Lahore. The IPL delegation was comprised of senior staff and the meeting was convened by MAS E.Ds & G.M.

In the meeting, capabilities of MAS Services and various similar CP projects, were also discussed. The E.Ds also shared their views regarding other activities of MAS Group Companies.



Left to Right: Mr. M. Sohail, Mr. Imran, Mr. M. Alamgir (IPL), Mr. Abdul Rasheed (IPL) & Mr. Shafqat Ali (G.M)

In addition, MAS Services is proud to be awarded for the installation of Complete CP System (Design, Supply & Services) for Hydrant Re-fueling Pipeline at New Benazir Bhutto International Airport (NBBIA), Islamabad.

New Benazir Bhutto International Airport will be the first



Site Survey at NBBIA is in-progress

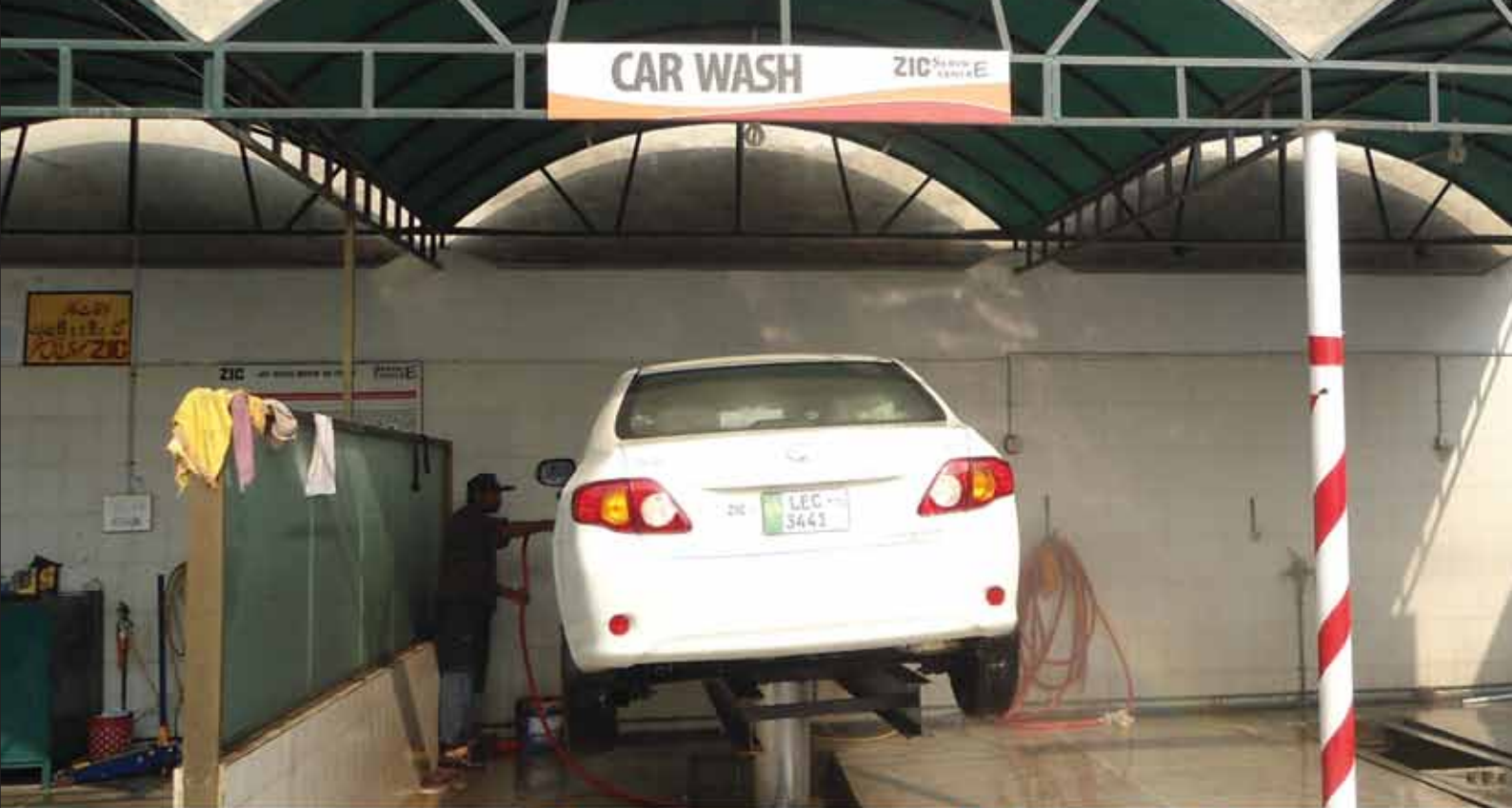
greenfield airport ever constructed in Pakistan. The new 3,200-acre (13km²) airport site is situated on a plot of land acquired by the PCAA in the 1980s at Distt: Fateh Jang (an additional 400 acres have been acquired to build the two runways). The airport will be 20km from the centre of Islamabad, and 23km from Rawalpindi being well served by an excellent highway infrastructure.

The *Pakistan Civil Aviation Authority (PCAA)* is the controlling body for the \$400m project which is likely to see the airport opening for operations in 2012–2013.



Hydrant Refueling Pipeline at NBBIA

MAS associates is a multi-disciplinary company involved in diversified field of engineering. MAS is one of the pioneers in introducing *Reverse Engineering, Repair/Refurbishment/Up-gradation of various Rotating Equipments*.



ZIC SERVICE CENTRES

Retail environment:

The Federal Bureau of Statistics provisionally valued Retail sector of Pakistan at Rs.1,358,309 million in 2005 thus registering over 96% growth since 2000 and the trend continues, capitalizing on the huge market gaps Multinational & Local Retail Brands have made heavy in-roads in this sector in Pakistan.

Hi-Tech Lubricants Limited launched it's first specialized Retail Service Centres in 2004 and till date has established 23 ZIC Service Centres Nationwide. These Service Centres operate on the following core objectives:

Merchandise:

Main purpose of developing ZIC Service Centres is to merchandise ZIC/ZIPEX products exclusively and give in-depth brand knowledge to the customers regarding the product

range so that they make the right decision.

Develop direct contact with the end user:

ZIC Service Centres are a direct source of feedback from consumer that can be helpful in determining consumer behavior toward ZIC/ZIPEX Products and give us exact consumer insights to formulate strategies.

Delivering quality ZIC products & service to the existing ZIC user:

ZIC Service Centres ensures the delivery of quality product and services to end users and offers services like Oil Change, Engine Tuning, Car Wash, Wheel Alignment, Complete Car Services, Air Conditioned Waiting room, Auto Mechanic etc.

Disseminate technical product information:

Learning level of the customer has very important role in choosing the right lubricant. Educating the retailer regarding the technical specification of different types of lubricants has helped us a lot in selling our product in retail market hence dissemination of technical information is a proven tool for the increase of customer base.

Develop brand image and enhance brand equity.

Develop ZIC Service Centres as a brand and enhance its Brand Equity as Specialized Service Centres that delivers "Ultimate Car Care Solution."

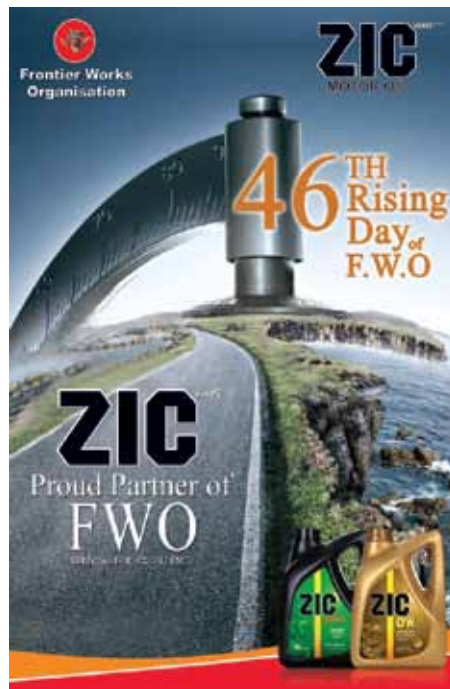
FWO ACKNOWLEDGING HI-TECH LUBRICANTS LIMITED



Frontier Works Organisation (FWO) has achieved the ranking of most versatile and vibrant construction firm in the recent times. We have been struggling since last 44 years for bringing prosperity to utterly backward and forgotten areas from the sun burnt plateaus of Baluchistan to lush green dales of Swat and Chitral and from the deserts of Sindh to snow capped Siachin. Over these years FWO has worked in diversified fields to include development of communication infrastructure like construction of roads, railway lines and airfields; irrigation like construction of dams, canals and barrages; power projects like thermal and hydal; tunnelling and mining; telecommunication; construction of residential and industrial infrastructure and proved its unmatched qualitative and quantitative capabilities. Mentioning the achievement is no doubt an easy task but managing through this track is the most challenging one. We have been

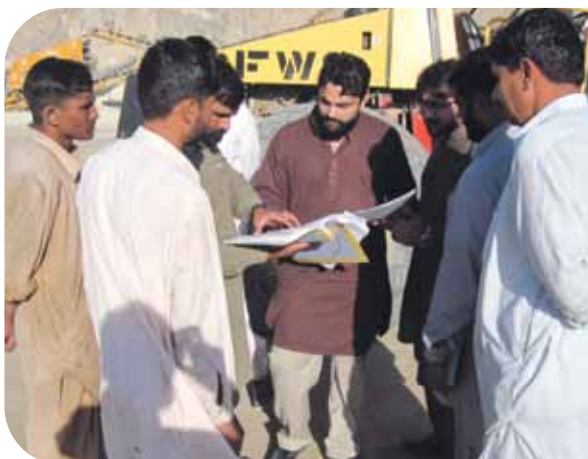
fortunate to build a team and proper infrastructure of clientele that has stood with us to relish the state of prosperity. One of our prime client

base has been established by Hi Tech Lubricants limited. The premium quality lubricants and a network of distribution in all regions is not the only feature to establish a strong business liaison. The unique prospect of Hi Tech Team has been the unmatched technical services through seminars, product briefing, field visits to almost unreachable areas across Pakistan. The well trained team members with specialized technical knowledge and tactics for effective utilization of right products for heavy machinery are always head on to provide services wherever required.



ZIC commemorating the 46th FWO Rising Day in a special newspaper supplement

We truly acknowledge the efforts of Hi Tech Management in building up a dynamic business network and skilful team of professionals. We look forward to a progressive business relationship and success for future.



Mr. Adnan Baig Head Technical Team HITECH Lubricants Limited sharing product details & technical knowledge with FWO team during field visit to North Waziristan



ARE YOU READY TO MAKE 2012 A NEW YEAR TO YOUR LIFE

Every year end we sit around the corner and evaluate the happenings of the year gone by and many of us make promises of changes we want to make for the year ahead. The New Year resolution can be easily made but very difficult to make yourself stick to them and achieve the results. But why not try making your resolutions on the simple pattern called 'SMARTER'. Research indicates that making a resolution which is *Specific, Measurable, Achievable, Result Oriented, Time Bound and can be Evaluated & Reevaluated* time by time, will eventually give us an increased success rate of 22%. Some of the popular resolutions include I will get out of debt, spend more time with family and friends, help others, get organized. More Importantly, we have to keep in mind that ultimate purpose for making new year resolutions is to better ourselves, this is a good time to sit and recite to yourself 'if at first you did not succeed, try try again'. If you are struggling with a goal you set, re-evaluate or re-form your goal but never GIVE UP.

With the dawn of 2012 in your life just focus to make it the best year regarding your professional grooming & career development. If you get a head start on your resolutions now, this will be the year to reach your fullest potential and finally take charge of your career. Here are 7 easy ways you need to follow to realize your professional objectives and take control of your success:

1. Explore options

Reflect on your job by asking yourself: am I utilizing my professional abilities and talents to the maximum? If the answer is an overwhelming "no," assess your work style and personal characteristics and discover the opportunities to overcome them.

2. Brush up on job skills

Take time to better yourself at what you do. Stand out from other employees by exploring and adopting opportunities that will strengthen your skill sets.

3. Meet with your mentor (boss)

Instead of guessing at your strengths and weaknesses; gain the input you need directly from your mentor/boss. Meeting regularly to review performance will help you re-evaluate goals and set priorities.

4. Set realistic career goals

Identify what you want to accomplish professionally and write them down according to your priority. Just make sure each goal is specific and attainable.

5. Analyze your work day for efficiencies

Practice better time management in the coming year. Are you making your phone calls on peak work hours? Are you spending too much time on certain activities? Make a to-do list before you leave the office and dedicate the next day to completing those tasks.

6. Boost work relationships

Healthy relationships with people you work can be developed in small ways. Just wish them on their birthdays & recognize on any special day with a positive attitude. Maintaining good relationships with colleagues will not only make the office a place you want to be in but can boost productivity.

7. Follow through on actions

Finally, the plan of action will never be realized unless you follow through. Visualize your success regularly and pursue your goals aggressively but remember not to give up on reaching them.

He who knows when he can fight and when he cannot will be victorious. (Winston Churchill)

By: **Shumaila Hameed**

EVENTS

ZIC Inter School Tournament in Association with Gymkhana Club



The winners Muslim Model High School & runners up of the tournament with Chief Guests & organisers.



Mr. Shaukat Hassan, Director Hi-Tech Lubricants Ltd addressing the media & participants.



Mr. Shaukat Hassan, Director Hi-Tech Lubricants Ltd receiving a souvenir on behalf of Hi-Tech Lubricants Ltd from the Governor Punjab Mr. Latif Khosa.

ZIC Lubricants sponsored a friendly Inter School Cricket Championship Tournament in liaison with Gymkhana club at Bagh-e-Jinnah, Lahore. Governor Punjab, Mr. Latif Khosa was the Guest of Honor who distributed the prizes amongst the teams with Mr. Shaukat Hassan, Director Hi-Tech Lubricants Limited who represented ZIC Motor Oil.



Mr. Jamil Hamdani President PFBA, Mr. Shaukat Hassan Director Hi-Tech Lubricants Ltd, Mr. Khilaid Ikram convener Lahore Gymkhana & Mr. Ashiq Hussain Qureshi of Honorary Council of France.

S.K. ZIC Korea Formula 1 Grand Prix

A modern Formula One car has almost as much in common with a jet fighter as it does with an ordinary road car. Aerodynamics have become key to success in this sport and teams spend tens of millions of dollars on research & development each year. The aerodynamic designer has two primary concerns: the creation of down-force, to help push the car's tyres onto the track and improve cornering forces; and minimizing the drag that gets caused by turbulence and acts to slow the car down.



SK-ZIC was the proud sponsor of South Korea's Formula 1 Grand Prix, the race was held on 14th Oct 2011 at Korea International Circuit. The race had 55 Laps and each circuit length was 5.615 km with the total distance of 308.630 km.

hard he could push his tyres before they were fully warm, yet still managing to conserve them. This race indicated just how beautifully he judged such things, and he had it won from the start.



S. Vettel was the winner of this Grand Prix and was driving his RBR-Renault. S. Vettel won the race in a record time of 1:39.605. Vettel made tremendous use of his machinery as he demonstrated even greater maturity and more often than not built an early lead after judging exactly how



S.K Team at the event, from left to right Mike Ryu, Y.D Chae & Sun Kim

ZIC KFC Campaign

ZIC is the market and technology leader in premium Motor Oil category in Pakistan whereas KFC is the market leader of fast food industry with over 65 restaurants across Pakistan.

ZIC launched its latest technology API-SN, ILSAC GF-5 graded product ZIC- OW and did a co-branding activity with KFC.

ZIC launched a nationwide campaign with KFC and distributed vale vouchers to the end-users on the purchase of ZIC Motor Oil and distributed more than 275,000 coupons for this scheme.

ZIC- KFC campaign was advertised on all Major Satellite Channels, Radio and Cable Networks across Pakistan. Plus 65 Restaurants nationwide were totally branded with Campaign Streamers, Posters, Flyers and Wobblers. Customer detailing activities were also organized at Selected KFC Outlets during the tenure of this joint promotion. The results of the activity were very encouraging and boosted the sales of both brands.



ZIC- Road Safety Campaign "Jaan Bachi Aur Lakhon Paye" First Lucky Draw

ZIC is carrying out a Road Safety Campaign 'Jaan Bache aur Lakhon Paye' through which motor vehicle drivers are focused in obeying Road Safety Rules because every life matters. Free tissue boxes are given with the purchase of ZIC Motor Oil that has the Road Safety stickers of; Avoid mobile phone usage, wear seat belts, don't litter, don't honk (unnecessary), avoid over speeding while driving. These stickers are pasted at the back of the vehicle near the registration plate and people email & directly upload the pictures as well as Zic spotting vehicles also spot the stickers. All the entries qualify for two lucky draws. The first lucky draw was held in Lahore on 23rd Dec 2011 that had the Grand prize of One Million Rupee amongst 30 other prizes like Bikes, LCD TV, Laptops, Refrigerators, Deep Freezers etc. CTO, Lahore Police Mr. Ahmed Mobin was the Chief Guest who did the lucky draws, also present at the occasion were Mr. Tahir Azam & Mr. Shaukat Hassan, Directors Hi-Tech Lubricants Limited with all Team Members of MAS Group .



Mr. Ahmad Mobin CTO, Lahore Police doing the Lucky Draw



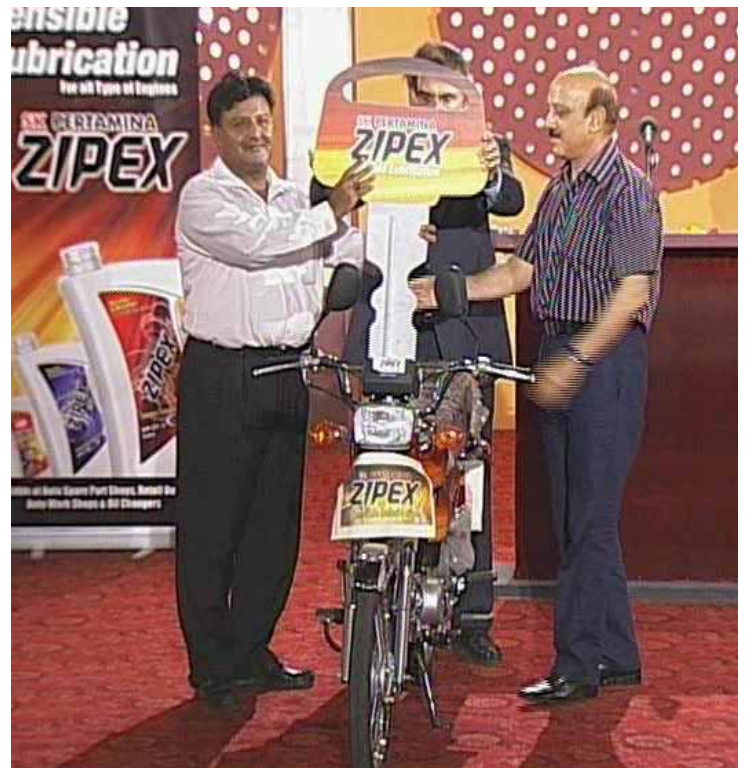
Mr. Tahir Azam Director Hi-Tech Lubricants giving the shield to the chief guest Mr. Mobin, CTO Lahore Police.



Media briefing by Mr. Tahir Azam & Mr. Omer Farooq of Hi-Tech Lubricants Ltd.

Zipex Sponsored a Bike in Quiz Show (Tariq Aziz Show)

Zipex was the proud sponsor of the informative section of a Quiz show (Tariq Aziz Show), the winner of the quiz was awarded Zipex bike after a healthy competition amongst the four contestants. Col. Moenudin (Director Projects) represented Zipex and handed over the bike along with Mr. Tariq Aziz to the winner.



Training events



An In-House activity for sharing knowledge regarding "Unleashing Leadership within Yourself", conducted by Amjad Shehzad and facilitated by Mr. Tahir Azam.



Sr. Manager Finance & Supply Chain , Mr. Shahzad Sohail receiving a recognition certificate for participation in outsourced training activity on 7 Habits.



EMPLOYEE'S CONTRIBUTION

Importance of TEAMWORK for BUSINESS SUCCESS

By M. Iqbal Javed
Sr. Manager Operations/Admin
(North Region)

Teamwork has become an exhortation in many industries; however, many businesses are overlooking the countless benefits that can be brought to the organization. Here is why teamwork is important to your business:-

Builds unity-If you want everyone working together within your business, then you will have to help them from a team.

Reduces stress-Studies have shown that in businesses that use teamwork approach, employees feel considerably less stressed.

Reduces risk-When employees work as a team, there is less chance that a mistake or problem will go unnoticed.

Helps to improve focus-In many businesses, employees are unsure of the desired end result.

Provides better ideas-When everyone feels involved, the end results of any project is generally better.

Teamwork has been shown to bring about more productive businesses, along with happier and more productive employees and more satisfied customers.

Funny Quotes *(Rooshan Rehman)*

- 1- I always arrive late at the office, but I make up for it by leaving early. Charles Lamb
- 2- I do not like work, even when somebody else is doing it. Mark Twain

INFORMATIVE SECTION



More Than You Ever Knew About Motor Oil

Choosing the best motor oil is a topic that comes up frequently in discussions between the automobile users. As majority is unaware of the quality of oil, so we chose to help you out in making a best choice based on more than the advertizing hype.

Always remember that Oils that can do their job with the fewest additives are the best. Base oils are defined under group I, II, III & IV showing superior properties on a programmed scale. This statement describes thick & thin differences between one group of base oil. Thin oil has a lower number and flows more easily, while thick oils have

a higher number and are more resistant to flow. If you are using thicker oil then it will give you a little less horse power out of the engine but it will protect your engine in a long term. And you can keep the thicker oil running in an engine much longer than a thin one.

If the car is new then it's a good idea to use thinner oil as you won't need to worry about the wear and tear of your engine and the pickup will also increase.

SIX MOST IMPORTANT PROPERTIES OF MOTOR OIL

• VISCOSITY

Viscosity is a measure of the "flow ability" of oil. Thicker oils generally have a higher viscosity, and thinner oils a lower viscosity. Oil with too low a viscosity can shear and lose film strength at high temperatures. Oil with too high a viscosity may not pump to the proper parts at low temperatures and the film may tear at high rpm.

Multi viscosity oils are one of the great improvements in oils, but they should be chosen wisely. Always use a multi grade with the narrowest span of viscosity that is appropriate for the temperatures you are going to encounter

• VISCOSITY INDEX

Viscosity Index is an empirical number indicating the rate of change in viscosity of an oil within a given temperature range. Higher numbers indicate a low change; lower numbers indicate a relatively large change. This is one major property of oil that keeps your bearings happy.

• FLASH POINT

Flash point is the temperature at which oil gives off vapors that can be ignited with a flame held over the oil. The flash point can be an indicator of the quality of the base stock used. Higher flash point is better for your engine. 400 F is the minimum to prevent possible high consumption.

• POUR POINT

Pour point is 5 degrees F above the point at which chilled oil shows no movement at the surface for 5 seconds when inclined. This is the temperature at which the oil will pump and maintain adequate oil pressure and this measurement is important for oils used in the winter.

• % SULFATED ASH

% sulfated ash tells you that how much solid material is left when the oil is reacted with sulfuric acid and burned.

• % ZINC

% zinc is the amount of zinc used as an extreme pressure, anti-wear additive. It is used when there is actual metal to metal contact in the engine. A level of .11% is enough to protect an automobile engine for the extended oil drain interval, under normal use.

The numbers above are not, by any means, all there to determine what makes top quality oil. The next time you would go for purchase read the spec's thoughtfully. The given data combined with the manufacturer's claims, your personal experience and the reputation of the oil among others who use it should help you make an informed choice.

ZIC- Motor Oil Specification Chart

Sr.	Vehicle Model (Year)	Mileage (km)	Recommended ZIC Motor Oil- Gasoline	Recommended ZIC Motor Oil- Diesel
1	2012	0-20,000	OW, XQ	ZIC 5000
2	2010-2011	20,000- 30,000	A+, OW, XQ	ZIC 5000
3	2008-2009	30,000- 50,000	A+, OW	ZIC 5000
4	2005-2007	50,000- 75,000	A, A+	ZIC 5000, ZIC SD 5000
5	2000-2003	76,000- 99,000	A, HIFLO	ZIC 5000, ZIC SD 5000
6	> 2000	100,000 & above	A, HIFLO	ZIC 5000, ZIC SD 5000

For further assistance please visit:
<http://www.masgroup.org/v2o.php>

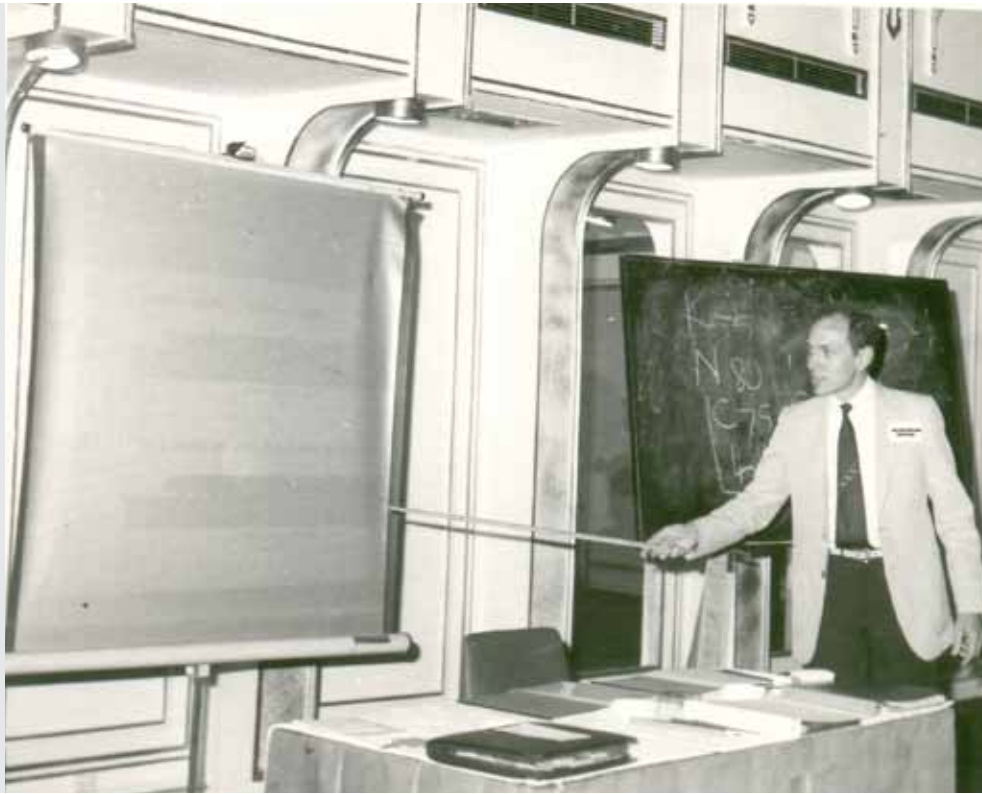


MEMORY LANE

**Army welfare pharmaceutical plant delegation
visiting Nanjing Plant in China 1991
(Temperature: -20c)**



*Mr. Tahir Azam (Director MAS), Mr. Bashir Ahmed(MD AWT Plant),
Brig. Fazal Ur Rehman (Leader of delegation), Col. Moeenuddin (AWT Civil Engineer),
Mr. Shahzad Ahmed (Engineer AWT), Mr. Shafqat Ali (Engineer MAS).*



1980- Mr. Giraud from Vallourec, conducting first VAM Seminar at Karachi



1980- Personnel from E&P Company attending VAM Seminar at Karachi



