

MONTHLY

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# ENERGY UPDATE

Exclusive Interviews



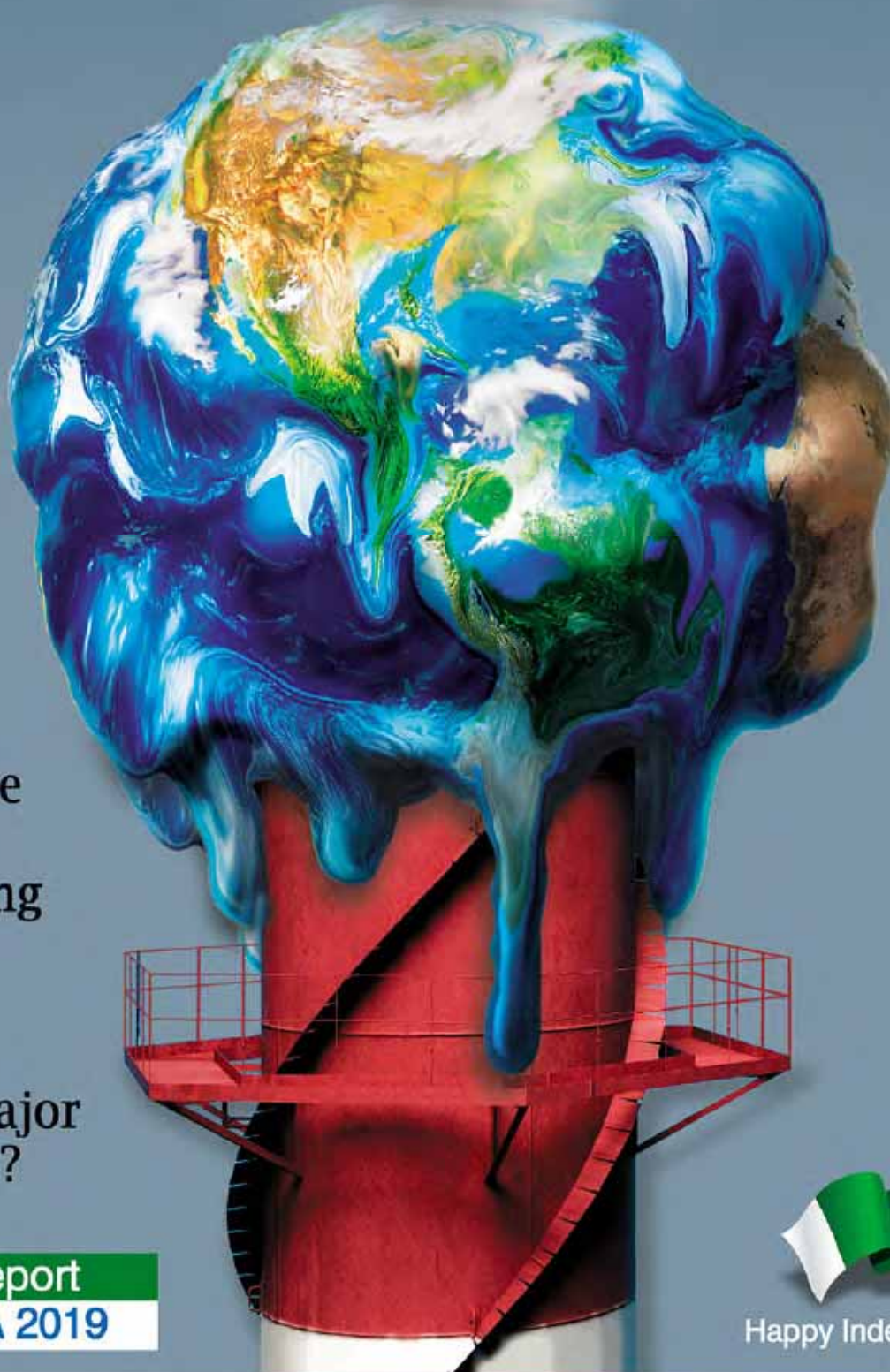
Imtiaz A. Shaikh  
Sindh Minister  
for Energy



Nadeem Babar  
Special Assistant  
to PM



Pasand Buledi  
Provincial Energy  
Secretary  
Balochistan



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you?

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facing major  
disasters?

Special Report  
16th AEEA 2019



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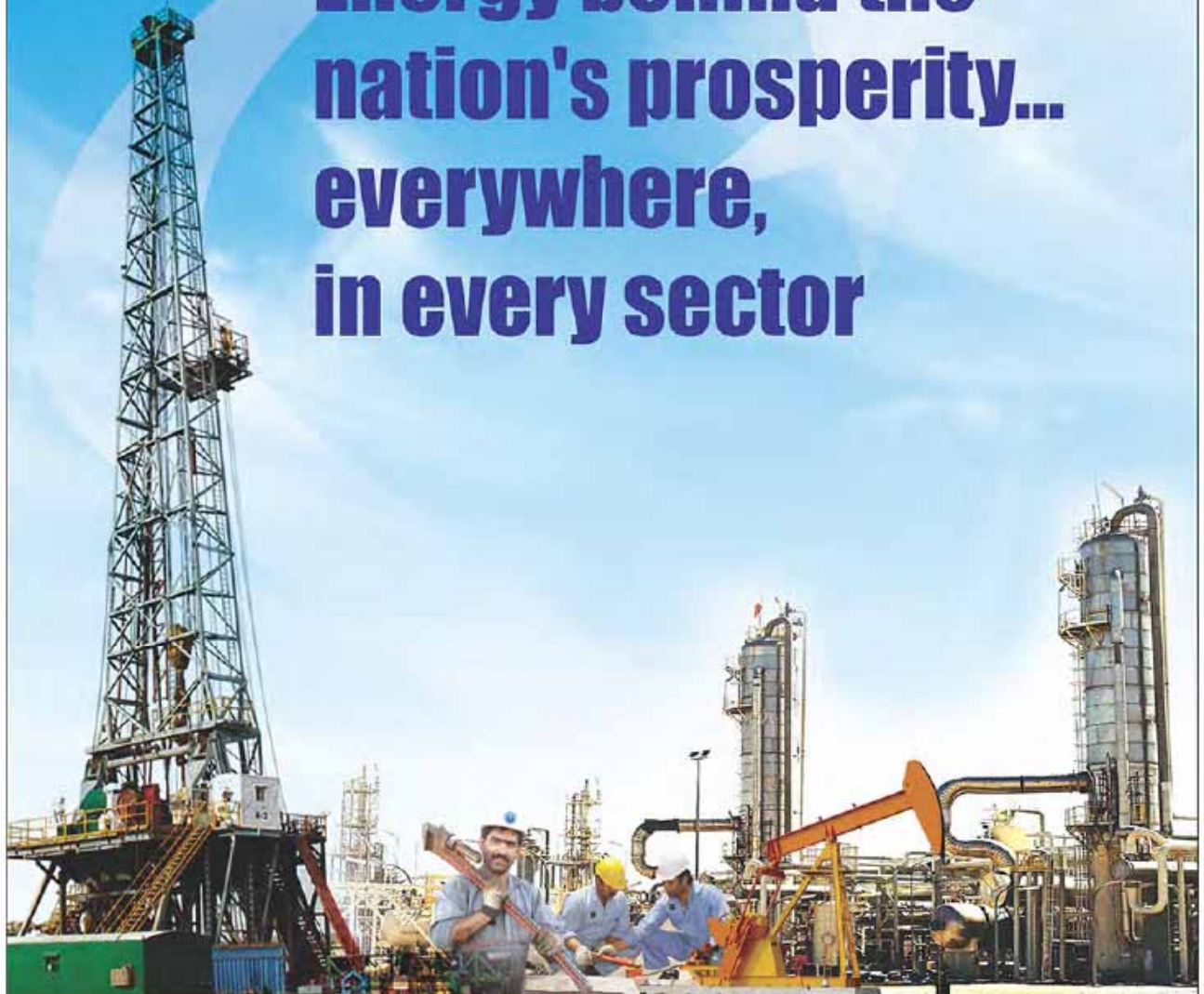
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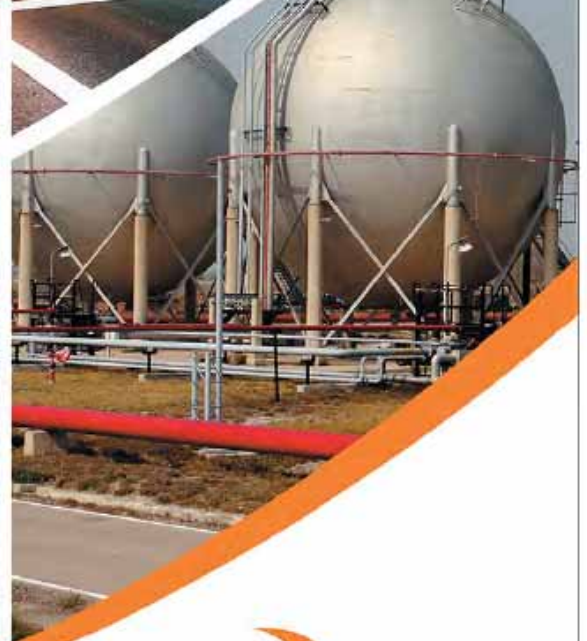
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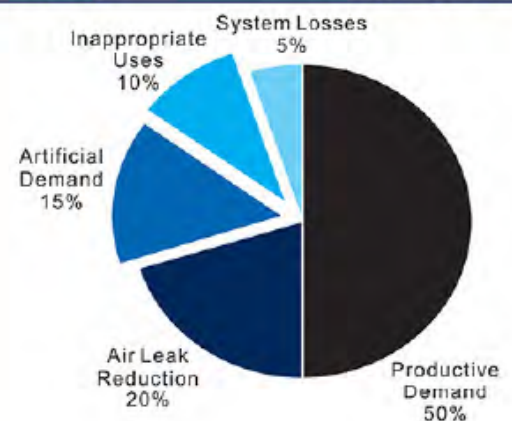


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From the editor's desk...

## Water crisis: Build dams for God's sake

While circular debt is soaring to an alarming level of Rs1.6 trillion, the government seems oblivious to the consequences of its negligence in handling this grave issue. The Prime Minister, without considering anything wisely, has awarded the Minister for Power, Umar Ayub Khan, for his wishful thinking about the circular debt to be eliminated by November 2020. This statement of the minister has been taken as whimsical as the circular debt is touching to the record level of over Rs1.5 trillion. The PTI government has accumulated this monstrous debt to this level when it took over from outgoing government of PML-N that left it at Rs700 billion.

The present government has the similar attitude towards another mega issue of water scarcity prevailing in the country and building of dams. The PTI government which is fully aware of the fact that Pakistan is among those countries that are threatened with drought in near future, has allocated peanuts for building of dams.

Despite actively campaigning for the construction of dams and highlighting of Pakistan's water resources running dry at an alarming rate, the federal government has reduced budget allocation for dams.

The previous government had allocated Rs23.68 billion for the construction of Diamer-Bhasha dam which has been reduced to Rs16 billion in the new budget. This is Rs7 billion less than the previous budget allocation.

The government has allocated only Rs69,678.359 million for various ongoing and new water resources projects under Public Sector Development Programme (PSDP) for the this fiscal year 2019-20.

According to the budgetary documents, an amount of Rs61,487.089 million has been earmarked for ongoing water schemes while Rs8,191.270 million for 30 new schemes in the PSDP 2019-20.

For ongoing water sector projects, a sum of Rs16,000 million has been earmarked for Diamer-Bhasha dam, Rs4,000 million will be given for Diamer-Bhasha dam land acquisition and resettlement, while Rs15,000 million has been earmarked for Mohmand dam.

Moreover, Some Rs803 million has been allotted for the Kachhi Canal Project, Rs1065.825 million has been allocated for remedial measures to control waterlogging in Muzaffargarh, Rs1,000 million for construction of 100 dams in Balochistan, Rs1,100 million for construction of Basool dam, Rs1,500 million for Balochistan Effluent Disposal into RBOD-I, Rs800million for Naulong storage dam and Rs600 million for raising of Baran dam (Bannu).

For new schemes, Rs1,500 million has been specified for Kachhi Canal Project (remaining work), Rs1,000 million each for construction of Winder dam and rehabilitation of Kas Umar Khan Barrage, Rs800 million for increasing storage capacity of Tanda Dam and Rs300 million for Management of Mithawan Hill Torrent.

The prevailing situation is extremely serious and earnestly requires of the government to execute the building of dams, with Diamer-Bhasha dam to immediately start work on a fast pace.



In the end, the Energy Update wishes a very happy Independence Day to its readers with the solemn prayer that by the next 14th of August, Pakistan will be fully self-sufficient in all its energy needs while utilizing its abundant natural resources.



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# Is climate change depressing you?

## What most of us don't discuss is the impact climate change has on our mental health.

**A**n award-winning show called *Big Little Lies* has a prescient scene in which a second-grader collapses in school after a panic attack.

Upon enquiry by a therapist, we learn the girl is scared because she believes the world is ending. Her class teacher had been discussing the ominous consequences of climate change with the kids that week.

Climate change should be scary for everyone. Those familiar with the destructive effects of climate change already recognise it has altered life as we know it by disturbing weather patterns, economies, food security and physical health.

What most of us don't discuss, however, is the impact climate change has on our mental health. In 2017, the American Psychological Association (APA) produced an updated detailed report highlighting the penetrative effects of climate change on mental health.

These include not only stress, depression and anxiety, but also the negative impairment of our social and communal relationships. Ever snapped at someone because it's unbearably hot and you've read tomorrow will be even hotter?

Not surprisingly, children and low-income communities will bear the greatest brunt of climate-induced mental health consequences.

An increasing number of people complain of climate change-induced stress and depression. Even in a nation laced with climate deniers, a 2018 Yale University study found that at least 70 per cent of Americans were "somewhat worried" about climate change. In a related poll in 2018, three quarters of millennials admitted to climate change hav-



ing adverse impacts on their mental health.

If detailed studies were conducted in Pakistan, imagine what the depression rates would be among flood victims and those who've lost their livelihoods because climate change has diminished agricultural yields and, ergo, sources of income.

This overwhelming feeling of helplessness has been termed eco-anxiety in the APA report, and described as "a chronic fear of environmental doom." Whereas eco-anxiety is not yet officially included in the Diagnostic and Statistical Manual of Mental Disorders, the handbook for diagnosing mental illnesses, it's

■ By Sara Hayat

not hard to relate to eco-anxiety. In fact, it is almost an understandable reaction to climate change awareness.

Worrying about children and future generations now invariably carries a climate component; there is no doubt that the world we're leaving our children with will be laden with our eco-mistakes.

Frustration over half-baked attempts by governments to address climate change, accompanied by the persistent feeling that individual efforts will do little to combat the greatest crisis in human history are all symptoms of eco-anxiety.

Susan Clayton, co-author of the APA report, says there is confirmed evidence of mental health issues being linked to

worries about our planet's future. She says preoccupations such as eco-anxiety, climate change distress and ecological grief are all expected to increase. However, how severely these mental health issues will affect people is contingent upon the steps being taken to curb climate change.

Climate-induced anxiety can present itself in two main circumstances: where the individual has been a victim of a climate-caused disaster, and when there is a persistent fear tinged with sadness about the state of our planet.

Per the Union of Concerned Scientists, between 25 to 50pc of people exposed to extreme weather disasters suf-



fer adverse mental health effects. The litany of symptoms for these include depression, anxiety and also trauma from the loss of a loved one, damage to personal property or even losing sources of livelihood.

These intense emotions eventually subside and are replaced by post-traumatic stress disorder. The severity of the symptoms depends on various factors, including the person's age, coping mechanism and the proximity to the disaster or devastation.

Alternatively, the long-term effects of climate change on mental health are connected with the loss of livelihood and climate change-induced migration. Individuals may lose a sense of personal and professional identity as occupations and quality of life are affected.

Similarly, losing one's home, property and a disrupted social structure can arouse feelings of helplessness, fear and a loss of personal autonomy. High levels of stress and depression are further linked to disrupted physical health and lower immunity.

Timely evacuation from a likely disaster-impacted area can help reduce adverse mental health impacts. Once an individual has acknowledged that they are within an anticipated radius of a climate disaster, the aim should be to eliminate as much uncertainty as possible about an impending weather event. Preparations for emergency exit plans, non-perishable food and water storage are all ways to help reduce eco-anxiety. Climate ignorance is no bliss.

The APA report further suggests that those with strong social connections and networks might experience lower rates of psychological distress and that the best way to combat climate anxiety is to build resilience.

Even where domestic environmental policies are not entirely promising, adopting environmentally-friendly lifestyle choices may make individuals feel less climate-anxious as social involvement in a cause helps dispel feelings of powerlessness.

We can no longer hide from climate change and its unexpected and pervasive impacts.

The 16-year-old Swedish climate change activist Greta Thunberg went on a school strike and said she doesn't want hope from adults anymore - she wants them to panic.

Thunberg is right. The Intergovernmental Panel on Climate Change confirms irreversible damage to the planet unless we realistically end all greenhouse gas emissions and limit global temperature increase to 1.5 degrees Celsius.

However, the fine line between 'positive' panic and anxiety should not be confused. The aim is to pressure governments and businesses into respecting our climate reality while we ourselves remain motivated to do our part.

Panic that triggers feelings of overwhelming helplessness will not improve our climate crisis. You have to believe that even small actions will help you, your children and our planet in this global war against climate change. ■

Courtesy: Daily Dawn

## SINA Welfare Trust conducts heat-wave activities

The Pakistan Met department issued a heat-wave warning last week, predicting that temperatures in the city may soar to as high as 42 degrees in the coming days, and advised all stakeholders to take preventive measures. During the day when the temperatures are at its peak, use of wet towels will ensure that body temperature do not rise, and are able to bear their fast easily. Water bottles are also being distributed in the afternoon at different high volume traffic points.

SINA, is a leading provider of quality primary health care to the poorest of communities in Karachi since 1998. Having treated 850,000 patients last year in the urban slums of Karachi recently conducted heat wave activities for the poorest of the poor. SINA has set up 14 location points outside its clinics and at local high traffic areas, where wet towels were distributed during the day, and water bottles given out before iftar time.

Commenting on this activity, Dr. Asif Imam, Chairman, and Founder of SINA Trust said: "People should try and remain indoors as much as possible and to remain hydrated if they venture outdoors. I also advise the use of caps, sunglasses and wet towels to limit the effect of extreme temperatures. To cope up with dehydration, people should take oral rehydration salts (ORS) and extra care of their children and the elderly." He also thanked MET, PDMA, and NDMA for raising awareness and appreciated Rangers and other NGOs for establishing relief camps that are providing water, ORS, ice boxes and towels across the city and pursuing the awareness and prevention campaign. He especially thanked K-Electric for donating 20,000 water bottles, 1100 towels, 23 iceboxes and 3000 ORS for the said activity.

Awareness has been noticeably better this summer as a result of increased awareness and a heightened sense of responsibility. The Sindh Health Department has also prepared a "Heat Wave Emergency Contingency Plan - 2019". The city administration has also set up 185 cold water points in the city. 24 ambulances will be on standby at different locations and 18 mobile teams will to provide immediate treatment and relief to people. ■

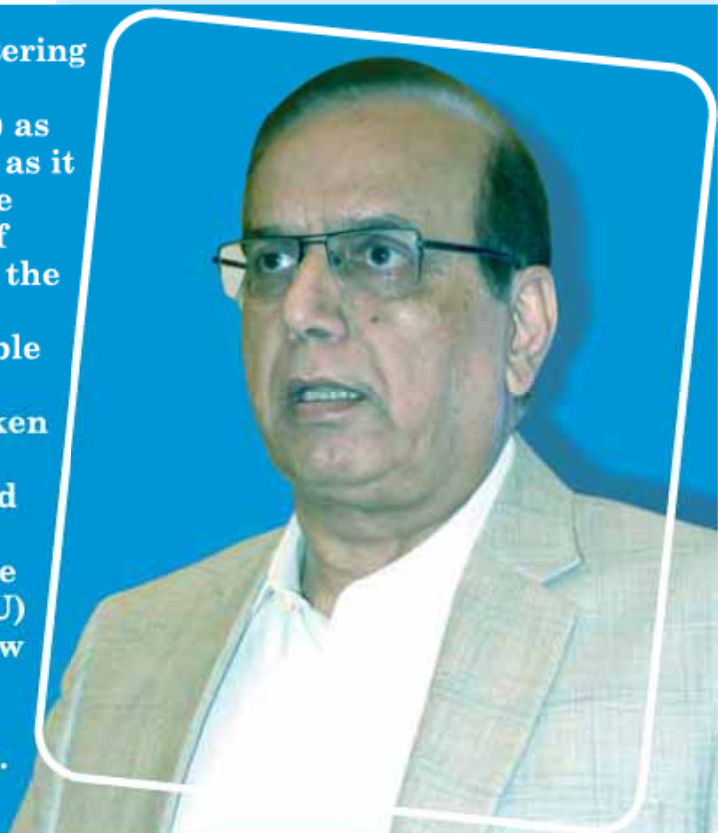


# K-Electric's management fails to deliver: Imtiaz Shaikh

## STDC being established as alternative to NTDC in Sindh

An exclusive interview with Sindh Minister for Energy, Imtiaz Ahmed Shaikh

**W**e are in the process of registering the Sindh Transmission & Dispatch Company (STDC) as the provincial-level grid company as it would enable the STDC to do more projects related to transmission of electricity in the province both in the public and private sectors as the company would also become eligible to work in the domain where at present projects are only undertaken by the National Transmission & Dispatch Company, this was stated by Sindh Energy Minister Imtiaz Ahmed Shaikh during an exclusive interview with Energy Update (EU) in his office recently. The interview focused on the present and upcoming projects of Sindh government's Energy Department. He further stated that...



**Energy Update: What is the outcome of your recent meeting with Federal Power Minister, Omar Ayub Khan on energy issue?**

**Imtiaz Shaikh:** The Federal Power Minister was accompanied by his entire team when we met him. His team members who were present on the occasion included secretary of the Power Ministry, chiefs of the relevant energy sector associations including NTDC, PPIB, and CPPA. We presented before them all the energy related issues of Sindh as we held detailed discussion on these issues. We agreed upon a number of issues. One of the issues discussed on the occasion included proper representation of the provinces in the federal level bodies related to the Energy sector like the NTDC, OGRA, and CPPA. We laid emphasis on this issue but it seems that this issue will

By Naeem Qureshi

be resolved only after a decision at the highest level of political leadership in the country i.e. prime minister. We are persisting with our principle standpoint on this issue as the provinces should get representation in these bodies. The decisions in these bodies should not be taken merely by the bureaucrats sitting in Islamabad as the provinces should also be involved in their decision-making process. We also asked them that if in case NTDC could not perform the task of evacuation of electricity from Sindh then the same should be handed over to the STDC as we are willing to do the same.

**EU: What is the plan to further develop the Thar Coal Project?**

**IS:** We are going to start the feasibility study for the next stage of Thar Coal Project. This stage pertains to using coal extracted from Thar for purposes other than the electricity generation. Thar coal could be used for production of synthetic gas and other useful chemicals. For the purpose, we have been contacting national and international organizations, which deal with the lignite coal. We are planning to get done the pre-feasibility of this stage of Thar Coal Project, which would allow us to use our indigenous energy resource for purposes other than the electricity generation. Up to eight different chemicals could be produced from Thar coal as one of its by-products could be used to run the electric motor vehicles. For the purpose, research study has to be conducted as we are in the process of getting this research done. Thar coal is a vast indigenous energy reserve of the country as we have been doing efforts that it should be maximally utilized so to lessen the import of furnace oil and RLNG to Pakistan. Instead of relying on imported fuel, Thar coal should be maximally utilized. We have also held discussion in Islamabad to establish the special rail link, which should be used to transport Thar coal to other parts of the country for power generation. It is our demand that the federal government from now onwards should not approve any new power project in the country on basis of imported coal. This will help the country conserve its precious foreign currency reserves while at the same time commercialization of indigenous coal reserves would also lead to development and progress of Thar including creation of job opportunities for its people.

**EU: What is the state of upcoming solar power project of Sindh Energy Department?**

**IS:** It is basically a World Bank-funded project as much progress has been made in this regard. We are going to properly launch this project in next two to three months. It is a 100 million US Dollars project comprising of four components. One component is related to solarization of homes in the villages, then the second component is related to solarization of large buildings of government offices in the province, a solar park of 400 Megawatts generation capacity has to be developed in the province as initially it would be launched with 50 MWs capacity, then the last component relates to conducting awareness seminars and



training workshops in the province to promote use of solar power in the country. All these four components would be conducted with the assistance of World Bank. The Sindh government will implement them in the mode of Public Private Partnership. The Sindh government will basically act as a facilitator to complete all these components. Initially solarization of homes would be done in the selected six to eight districts of the project as a pilot project as later on this scheme would be unfolded in other districts as well.

**EU: What about the plan to do waste-to-energy project in Karachi?**

**IS:** We are also planning to launch a waste-to-energy project in the city. The Sindh Solid Waste Management Board (SSWMB) has been conducting a study in this regard as to determine volume of organic waste, which could be useful for power generation. Municipal waste generated by Karachi is capable of generating up to 200 MWs clean electricity. The work has been in progress in this regard. We are not completely responsible for this project as the SSWMB is mainly re-

sponsible for it. Even then we have been trying our best to get it done at the earliest. Apart from this, another project will be built to generate renewable electricity from the cow waste generated from the Cattle Colony of Landhi.

**EU: What is your viewpoint about the K-Electric?**

**IS:** The further sale of the K-Electric to Shanghai Electric Power Company should take place at the earliest. The present management of K-Electric now lacks the capacity to do further investment. The K-Electric definitely needs further investment to build feeders, transmission lines in its system and also for increasing its own generation capacity. The Shanghai Electric is ready to make heavy investment in this regard. It all depends on the federal government as how early this change of management takes place in the privatized K-Electric. If the federal government has the will and resolve, this change of management can be executed within a few months.

**EU: How the issue of circular debt in the power sector could be resolved permanently?**

**IS:** The energy security of Pakistan lied with the Thar coal. The issue of circular debt could never be reduced till the time we are not willing to start consuming this indigenous energy resource of the country. If we continue to consume imported furnace oil, our circular debt will continue to increase. The issue of capacity payments to idle power generation units in the country will continue. The increased reliance on the indigenous resources of energy will enable us to save billions of dollars every year as foreign exchange reserve is very important for the country. The exploitation of indigenous resources of electricity will also lead to creation of job opportunities and development of the areas where these resources are found.

**EU: How the Sindh Energy Department is facilitating prospective investors in the power sector?**

**IS:** We have launched a one-window operation at our department as We have offered to resolve all issues being faced by the prospective investors in the energy sector including problems related to land procurement. In this regard, we are ready to offer all the services for coordination with all the relevant government and state agencies. We have deputed an official especially for the purpose.■

## Air pollution killing us all, claims new global study

**A** comprehensive global study by the International Respiratory Society's Environmental Committee and published recently in CHEST, the official publication of the American College of Chest Physicians, claims that air pollution may be damaging every organ and virtually every cell in the human body. Here's the executive summary of the report.

Air pollution poses a great environmental risk to health. Outdoor fine particulate matter (particulate matter with an aerodynamic diameter < 2.5 µm) exposure is the fifth leading risk factor for death in the world, accounting for 4.2 million deaths and > 103 million disability-adjusted life years lost according to the Global Burden of Disease Report. The World Health Organization attributes 3.8 million additional deaths to indoor air pollution.

Air pollution can harm acutely, usually manifested by respiratory or cardiac symptoms, as well as chronically, potentially affecting every organ in the body. It can cause, complicate, or exacerbate many adverse health conditions. Tissue damage may result directly from pollutant toxicity because fine and ultrafine particles can gain access to organs, or indirectly through systemic inflammatory processes.

It wasn't that long ago that most of us had never heard of fine particulate matter, or FPM. It's a term that first appeared in news reports surrounding the Volkswagen diesel cheating scandal. FPM emissions from diesel engines are significant, but they are a byproduct of burning all fossil fuels.

Some, like coal,

create more. Some, like natural gas, create less. But all create some fine particulates. Whether its generating electricity, powering airplanes, or fueling cars, buses, trucks, and trains, fossil fuels fill the air with crud that is bad for us to breathe.

Research is hard to do on living humans. Many of the conclusions in the report are inferential. For instance, when Beijing shut down many of the more egregious sources of air pollution in the run-up to the Olympics in 2008, median birth weights in and around the city increased.

"Air pollution can harm acutely, as well as chronically, potentially affecting every organ in the body," the researchers conclude. "Ultrafine particles pass through the [lungs], are readily picked up by cells, and carried via the bloodstream to expose virtually all cells in the body."

The review represents "very strong science," says Dr. Maria Neira, director of public and environmental health at the World Health Organization. "It adds to the very heavy evidence we have already. The danger from FPM pollution is that those tiny particles are so small, they can cross directly into the bloodstream in the lungs. From there, they get transported to virtually every cell in the body. Unborn children are especially at risk as they are completely dependent upon the mother's bloodstream for sustenance."

Many doctors are unaware of the wide-ranging damage associated with air pollution, Schraufnagel says. "Some have no idea air pollution affects the organs they specialize in. But it affects their organs too and they had better pay attention. They need to educate their patients and then they should speak up in favor of action."

Since most air pollution comes from burning fossil fuels to generate electricity, heat homes and power transport, "We need to work on these factors in a very dramatic way," Dr. Neira. "We are probably the first generation in history to be exposed to such a high level of pollution."

"People will say that in London or other places it was worse 100 years ago, but now we are talking about an incredible number of people exposed for a long time. We have megacities where all the citizens are breathing toxic air. However, with all the tons of evidence we are collecting now, politicians will not be able to say we didn't know."

The difference is that whereas before climate activists could only talk about some inchoate climate emergency, starving polar bears, and thinning ice shelves at the poles, now we can say "STOP POLLUTING OUR BODIES AND KILLING OUR CHILDREN!" Those are words that even the most feckless politician can understand. The solution should be intuitively obvious to the most casual observer. Electrify everything with renewable energy and stop burning fossil fuels. ■



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# 81 pc of electricity feeders in the country are now loadshedding free: Nadeem Babar

## Exclusive interview of Head of PM's Task Force on Energy Reforms

**Energy Update:** What efforts have been initiated by the present government to contain the issue of circular debt in the power sector?

**Nadeem Babar:** The circular debt was increasing by Rs38 billion every month when this government assumed its office. These numbers had been persisting since the previous 16 to 17 months. They had to be contained as they were a source of massive bleeding. It was creating effects on the entire energy supply chain of the country. Some three to four measures were identified, which had to be taken to contain this liability. One of the steps was to fix the tariff as tariff setting was wrongly done. Then there was also the issue of constraint in the system of electricity transmission. The maximum transmission of electricity by us last year was 19,700 Megawatts as this year on 4th July we were able to transmit up to 23,050 MWs electricity. So in one year we were able to move 3,500 MWs additional electricity in the country. Despite the fact that the demand of electricity got depressed we were able to remove several transmission constraints. Then there was also the main issue of electricity theft and leakages in the system, which we had to contain. These were our immediate interventions in the power sector. These were meant to regularize the flow of electricity and gas in the system and also to evolve a complete mechanism to fill the gap between receivables and payables in the system.

Owing to these interventions, per month increase in circular debt will come down to Rs 15-16 billion by August. While this increase will be further reduced to Rs 5-6 billion by June next year as by December 2020 this increase will be brought down to zero.

**Energy Update:** Kindly inform about your other measures in the energy sector?

**Babar:** We issued the draft of new policy of renewable and alternative energy for the country as we will shortly get it finalized for submitting it to the cabinet for approval. We have also finalized the new national electricity policy,



**A**t present 81 per cent feeders in the country are exempted from power load shedding as the result of the government policy to do zero load shedding on the feeders where power theft is less than 20 per cent. We can stop load shed on rest of the 81 per cent feeders as we have generation and transmission capacity for the purpose but the instance of power theft there ranges from 20 per cent to 90 per cent. We are picking such feeders on area-wise basis as we are working on them" says Nadeem Babar, who heads the Prime Minister's Task Force on Energy Reforms and also the Special Assistant to PM on Petroleum, disclosed this during an exclusive interview with the Energy Update. Following are the important excerpts of his interview:

which had been drafted some two years back as later on it was put aside. It will also be submitted to the cabinet in the next month. We drafted another policy

By Naeem Qureshi

document, which relates to the future working of the existing power plants both in the public and private sector as there are several GENCOs (power generation companies), which needed to be shut down. There also several IPPs whose contracts have to be reviewed. Then we also plan to shift all of our customers to the system of smart metering in next five years. It is a huge task as it involves millions of customers all across the country.

**EU:** What are your initiatives for the gas sector?

**Babar:** We realized that there were shortcomings in the exploration and production policy (E&P) for the gas sector, which was devised in 2012. Several companies left this field in last six to seven years as no new company was ready to come and work here. We gave much emphasis on this issue as we did consultations with the relevant companies, which have been operating here so that we could get to know what changes we have to bring in this policy. So we reviewed one-by-one over 80 regulations related to the E&P as we came to the conclusion that half of these regulations were unnecessary as we either have to get them removed or make them simplified. This will make sure that there should be no wastage of time for the newcomers in the sector. Then we have also called a team of eight to nine experts from the World Bank for the complete reform of the oil and gas sector. Then we have to reorganize both the gas pipelines in the country so to make a central transmission and distribution system having an open access as a new regulatory regime will also be proposed for it. This will facilitate if anyone from the private sector imports LNG as the prospective importer would be in a position to sell its gas in the country after paying rent of the gas pipeline. Then in the next month we will devise a new LPG policy keeping in view its issue related to winter pricing.

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## How the government is being run?

# Pakistan facing major disasters?

By Sajid Aziz

**H**ow the present government is being run, no one has the answer at point of time. Imran Khan, the Prime Minister has miserably failed to show his existence on the affairs of the government and during his entire tenure so far has let the whole to make the mockery of whatever he has done. His most trumpeted slogan for building of Diamer-Bhasha Dam has been buried somewhere and despite collecting funds for Rs14 billion from the public besides budget allocations and awarding project to his favourites, no significant work is seen on site.

An extremely serious situation is being faced by the nation as nothing

going on for the country to save from major disasters, at this juncture when an international tribunal has given verdict against Pakistan for \$5.9 billion, a little more than what Imran's government borrowed from IMF. The present regime has set-a-side all major projects that were ongoing across the country, not paying anything against circular debt and so much so, the construction of dams remains standstill or going on snail's pace, inviting the major disasters. And this all due to the mortgaging our economy to the IMF and once again

superimposing people like Dr Hafeez Shaikh who was allegedly sabotaged many projects including construction of dams when he was Finance Minister during PPP regime.

Besides, PTCL's scandalous privatization due to which Pakistan still looking for the remaining amount of \$900 million which has now accumulated to about two billion dollars, his involvement in shelving the water projects is still being questioned by various circles. A former chairman of the Water and Power Development Authority (Wapda), Shakil





Durrani, requested the Public Accounts Committee (PAC) on to summon former finance minister Dr Abdul Hafeez Shaikh over his dubious role in delaying execution of many critical water projects. Durrani lifted the curtain on some of the events that happened during the PPP's third tenure. He claimed in the PAC meeting that Dr Shaikh would pay heed to the then army chief General (Rtd) Ashfaq Pervez Kayani but would at times ignore advice by the then President Asif Ali Zardari.

The PAC meeting had been called to fix responsibility for delay in start of work on Naulong Dam even though tenders had been floated. The PAC was also supposed to take a decision on the issue of placing Rs2 billion worth of funds in private bank accounts instead of spending it on the Naulong Dam construction. But it did not take up the matter despite summoning the former Wapda chairman.

Durrani headed Wapda from September 2007 to September 2012 and the PPP was in power from early 2008 to early 2013. The PAC had summoned Durrani to explain his role on retaining Rs2 billion in a private bank instead of spending it on the Naulong Dam project. When PAC Chairman Khursheed Shah asked who was responsible for a 10-year delay in the start of work on the dam, Durrani replied, "It would be better if the PAC called the former finance minister Dr Abdul Hafeez Shaikh." Dr Shaikh was also the minister for planning during the PPP regime.

Durrani said Naulong Dam project was one of the 10 favourite projects of former president Zardari who would call review meetings after every two months. During these meetings, Dr Shaikh used to say 'please do not bother the president' and assured provision of funds, he added.

"However, when I would meet Shaikh, he used to say that the country's financial conditions were precarious and he did not provide funds for Naulong," he added. Narrating another event, Durrani said the Mangla Dam raising project had been completed by Wapda and Rs2 billion were required to resettle the affected population, but the authority could not get the money from the former finance minister despite repeated requests and meetings.

"One day I met the then COAS at airport by chance and told him that the project was suffering because of delay in release of funds. He promised to help me, and Shaikh released Rs2 billion within three days," he claimed. Durrani had initially said a 'non-political person' helped him get funds but when the PAC asked to disclose the name, he said it was the then army chief. He said due to delay in filling the dam, the country suffered at least Rs15 billion loss per annum.

The PAC also discussed the perennial issue of inclusion of hundreds of more schemes in the portfolio of federally-funded Public Sector Development Programme (PSDP) despite severe scarcity of resources.

The PML-N government has included 429 new schemes in the 2017-18 PSDP despite pendency of 593 ongoing schemes. It requires Rs5.6 trillion to complete work on all the schemes, which is more than federal government's total annual budget for the year.

As per the past practice Dr Shaikh once again slapped all the development projects, he has allocated only peanuts for Diamer-Bhasha Dam slashing it to Rs16 billion only as compared to Rs23 billion allocated by the previous government. Diamer-Bhasha dam is just like lifeline of Pakistan's water resources. The way Dr Shaikh is slashing the budget for water and energy sector besides other mega projects, we should not be oblivious of major disasters in the offing. ■

continued from page # 15

#### **EU: What are your efforts regarding the issue of unaccounted for gas (UFG) in the system?**

**Babar:** We also launched the new policy for the UFG as we have started receiving its results. In the last three months, we detected 24,000 illegal connections across the country as we disconnected them. In this regard, we secured successes in many areas while we faced many problems in other areas as we have to separately handle them. We have been able to bring down the UFG of industrial sector of Punjab to less than one per cent. Each one of the industrial customer there is getting inspected every month. Then we have to spend time to sort out the issue of UFG among 9.5 million customers of the domestic sector in Punjab. The overall number of UFG is improving in the country. Then we have also launched a project costing around Rs 9-10 billion to build a gas distribution system in Karak area of Khyber Pakhtunkhwa as it will help in resolving the major issue of UFG in the area. The completion of the project will take some six to seven months. We are planning that by June next year the figure of UFG for Sui Northern Gas Pipelines Ltd should come down to single digit i.e. 8 to 9 per cent.

#### **EU: When will be the new renewable energy policy implemented?**

**Babar:** There are around 40 upcoming wind energy projects having clearance for their implementation. We are waiting that maximum number of these projects attained financial closure by December this year so that their construction should be commenced in accordance with the existing regime of renewable energy. Afterwards, we will introduce and implement new renewable energy policy of the country after taking on board all the concerned agencies of the country including NTDC, NEPRA, PPIB, AEDB, CPPA, and others. ■

I asked his age he said 95 and my mother died at the age of 105.

I asked: What is the secret of your good health?

He said: Don't get ill.

I said: It's not in our control.

He laughed and said it is.

I said: Tell me the secret I will follow it.

He said: Do not eat anything without saying Bismillah Even a drop of water or a little piece of food.

I was quite and then he said: Allah never created anything without reason. Everything has a wisdom behind it and there are benefits and disadvantages hidden in them. When we read Bismillah then Allah takes all harm away from the food. Always say Bismillah before you eat and be thankful towards your Creator. When you finish eating pick your hands up and say thanks to Allah. You will never become ill.

My eyes were full of tears. After his talk I thought he is a great scholar. I was about to go but he held my hand and said:

Listen the last thing about food. I sat down again. He said if you are eating together with someone, never put food in your mouth first no matter however hungry you are. Let the other person take the food or give other person first. Let the person start eating then you do. I was shy to ask the reason but he told me.

He said: This is sadaqa of your food paid and plus Allah is happy with you that you care for his people

Always remember!!!

Food is for your body and Bismillah is for your soul

Now tell me how can you become ill?

I left the place thinking we don't care about these little little things our deen tells us and don't teach them to our children either.

May Allah protect us from any kind of illness and make us his obedient servants

# Balochistan's potential of producing 4 million MW electricity never realized: Pasand Khan Buledi

## Provincial Energy Secretary announces plan to solarise 30,000 tube-wells

**Energy Update: Tell us about the potential of Balochistan to generate electricity through renewable means?**

**Pasand Khan Buledi:** The province of Balochistan offers one of the most promising potential to generate electricity through renewable means not just locally but internationally. This potential is exclusively available in the forms of wind, solar, and tidal energy. Balochistan possesses one of the world's best wind and solar corridors. Take the example of a place Nok Kundi in the District Chagai as the assessed potential of wind energy of alone this place is more than 16,000 Megawatts. Then assessed solar energy potential of entire Balochistan is over four million MWs, which is sufficient to meet electricity needs of the entire Pakistan for several upcoming centuries. We are lucky enough that border of Balochistan meets with two countries i.e. Iran and Afghanistan. Iran is self-sufficient in its electricity needs to a large extent but surplus electricity to be produced in Balochistan through these renewable means could be exported to Afghanistan to meet its energy requirements.

**EU: Why big or small renewable energy projects could not be installed in Balochistan so far despite having so much enormous potential?**

**Buledi:** It happened owing to a number of reasons. One of the main reasons is that Balochistan has lesser representation in the relevant decision-making, policy, planning forums including the federal bureaucracy and parliament. So the case or potential of Balochistan with regard to renewable energy could not be amply discussed or projected at these important forums. Then another issue is that Balochistan is spread over a vast area with smaller settlements of human population as the province has been facing issues related to infrastructure and accessibility with regard to the energy sector as these issues make it difficult to do such alternative power projects. The Balochistan also lacks in having big load centres as neither it has



**Balochistan offers one of the most promising potential of generating electricity through the use of renewable means not just nationally but internationally, says Balochistan Energy Secretary, Pasand Khan Buledi in a recent interview with the Energy Update. Following are the important excerpts of his interview:**

**By Naeem Qureshi**

major industrial zones. Then there are also issues related to availability of transmission lines and connectivity with the national grid for such projects. But since the time the present federal and provincial government has come to power, a vision and commitment is being employed to do work in Balochistan in this regard.

**EU: What are the details of the project of government for providing subsidy for the operations of the tube wells in Balochistan?**

**Buledi:** These are 30,000 tube wells of Balochistan as the federal and provincial governments have combined their

strength to subsidize their operations. The Balochistan government provides Rs13 billion for the purpose while Rs 09 billion is provided by the federal government in this regard. We want that solar energy is utilized for the functioning of these tube wells to save electricity and massive public funds being spent on their operations.

**EU: What is the progress so far made by the Balochistan government in regards renewable energy projects?**

**Buledi:** The Balochistan government has prioritized the utilization of renewable energy like rest of the provinces in the country. The Balochistan government has issued 25 LoIs (letters of intent) for solar power projects each having the generation capacity of 50 MWs. Likewise, 10 similar LoIs have been issued for wind power projects. We try our best to work on these projects should be started at the earliest as once they are commissioned these energy ventures will be in a position to contribute towards fulfillment of energy needs and boosting economic activities in the country. In this regard, the work has been commenced on two solar power projects of 50 MW capacity in Bostan area of Pishin.

**EU: Is there any new initiative of Balochistan government in the energy sector?**

**Buledi:** The Balochistan government has issued a new potential with the name of Roshan Pakistan. This programme pertains to the renewable energy potential of the country. This programme is aimed at promoting the concept of clean and green energy in the province with spending of Rs1 billion. The scope of this project will be expanded later on with the passage of time. It is meant to promote the process of village electrification and provision of power supply to individual households in the far-flung areas of the province. The off-grid areas of Balochistan will also be covered under this initiative. Later on, the localities of the province suffering from severe electricity loads will also be benefited through this programme. ■

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# Pakistan's energy sector greatly suffered due to lack of vision and strategy: Experts

## Contracts worth Rs100m signed at POGEE



**T**he speakers and experts were unanimous of the fact that Pakistan's energy sector has greatly suffered due to lack of vision and strategy and the main focus has always been on reckless capacity addition at exuberant cost. At the 15th Oil, Gas and Energy Conference 2019, held at Karachi Expo Centre here on Saturday, they mentioned that energy policy makers have largely ignored the other important factors like improvement in generation mix, augmentation of indigenous supplies, up-scaling of transmission and distribution system and institutional development.

Dr Baqar Raza, Director General, Pakistan Council of Renewable Energy Technologies, while chairing the first session of the conference disclosed that a number of power producing agreements have been signed with China under which bio, hydel, solar, wind energy would be produced. He said that National Energy Testing Laboratory is being set up with a cost of \$10 million. The laboratory would carry out up to 90 tests. He said that power sector is also utilizing Silicone Solar Cell Fabrication Technology (SSFT). He said that sustainable policies made for common

people on long-term basis.

In his keynote address the Director, Alternative Energy Development Board (AEDB), Sheeraz Anwar Khan said that readjustment of the generation mix should be at the heart of any remedial plan when you are going to address the energy crisis still prevailing in the country. He said that based on existing energy mix, Pakistan's dependence on the fossil fuel is 63% out of which 55% is on imported fuel which is a serious threat to our energy security. "Pakistan needs to quickly and heavily truncate the share of thermal power generation in the

supply mix replacing it with indigenous supplies", he said adding that in 2016, total system capacity payments were Rs280 billion or Rs3.4 per unit sold. That is where the megawatts started coming in, while in 2017, after inclusion of CPEC, capacity payments went up to Rs350 billion and in 2018 capacity payments almost doubled from last year to Rs644 billion or Rs6.2 per unit. That is almost 60 percent of the power purchase price. Capacity payment bill of close to Rs900 billion, that is Rs9 per unit in 2019, he sounded alarm.

Toufeeq Ahmed, Chief Executive



Junaid Makda President KCCI visited Energy Update stall at POGEE



**Mr. Mubeen ur Rehman Director Albario Engineering Pvt Ltd receiving memento at POGEE 2019**

Officer, Lakhra Coal Mining Company (LCMC), has complained that we haven't exploit the coal reserves found in abundance throughout the country. He mentioned that Pakistan can produce electricity from coal-based power plants for at least 200 years. He said that Pakistan has 1.328 billion tonnes coal but we need to go for mechanized coal mining to fully exploit the opportunities from coal.

Engr. Ali Nawaz, Director Projects, Private Power & Infrastructure Board (PPIB) said that to materialize government commitment to overcome energy shortfalls leading international investors and lenders are being invited to invest in country's power sector for that goal government has so far inducted 37 IPPs producing 15,469 MW with cumulative investment of \$16.7 billion. He said that more than 50% electricity is supplied to the National Grid by IPPs while twelve projects of around 7,500 MW would be producing energy by year end 2022.

Asif Jehanzeb, Assistant Director, Directorate of Alternative Energy, Sindh Energy Department, said that Renewable Energy Projects implementation under the framework of "Policy for Development of Renewable Energy for Power Generation, 2006". Through this policy local and foreign investors are fully protected under Constitution of Pakistan, which guarantees the purchase of all power generated from the project through buy bank guarantees of the GoP. For fulfilling the land requirements of power generation projects, the GoS has exclusive policy for land allotment called "Statement of Conditions for Grant of State Land on Lease, 2015".

Sharafat Ali Mangi of Mehran University of Engineering, Altaf Rehman, Commercial Director, Aspen Aerogel Inc. USA, Tayyab Rasheed, EVP, Head of Investment Banking, Faysal bank, Mariam Khalid, Punjab Energy Efficiency and Conservation Agency, Ammad Ghafoor of Aveva UAE and Imtiaz H Baloch

also gave their presentation.

The 17th Oil, Gas and Energy Exhibition (POGEE) ended with a success note wherein exhibitors and buyers have negotiated orders for Rs100 million. ■

## Pakistani Startup Tello Talk Shines at Google Demo Day Asia 2019

Demo Day Asia was hosted by Google for Startups,



where some of the region's most outstanding startup founders gathered to pitch to top regional and global investors on stage. Each year, Google brings together a group of compelling investable companies from around the Asia Pacific to highlight innovative technology and drive investment.

This year top-notch startups from all over the region applied to be a part of the second Google Demo Day Asia and TelloTalk was one of the 11 startups selected from the Asia Pacific from amongst thousands of applicants including: India (Matelabs), Vietnam (Kyna), Indonesia (Wahyoo), South Korea (Yolk), Japan (LilyMed), Australia (Talkiplay), Hong Kong (Soundbrenner), China (Modoo), Thailand (Glazziq), and Singapore (Anywhr).

TelloTalk is an all-in-one chat application which is a dynamic, secure, local and integrated platform that includes everything from messaging, localized stickers, customizable emoticons, regional Pakistani language keyboards, music and news absolutely free. Incubated in the 7th cohort of The Nest I/O, TelloTalk raised USD 400,000 in seed funding and generated revenue of USD 320,000 in 2018.

"When you have worked with a startup and seen them mature and grow, it is extremely fulfilling to watch them pitch in the international arena and get serious attention from international investors. Shahbaz did just that. So proud to see Tello Talk well on its way" - commented Jehan Ara, President P@SHA and Founder The Nest I/O.

Selling Pakistan is Just as Important as Selling Your Startup. According to Shahbaz, he had to spend more time "selling Pakistan" than any other participant due to lack of information in the audience and in doing so, it distracted from the product itself. ■



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## People of Balochistan should become ultimate beneficiaries of TAPI project



"Involvement of local leaders must be ensured for success of the TAPI (Turkmenistan-Afghanistan-Pakistan-India Pipeline) Gas Pipeline Project." This was stated by Essa Rohan, District Chairman, Pishin at a Public Hearing where the findings of the Environmental and Social Impact Assessment (ESIA) study of the project were presented and discussed.

Furthermore, Mr. Rohan urged that the people of Balochistan are the ultimate beneficiaries of this project and the authorities must ensure that the local people actually receive gas that is transported through this project.

While speaking on the occasion, Farooq Qamar of Interstate Gas Systems (ISGS) responded by stating that the actual recipients of the gas that comes from this project would be determined by the Economic Coordination Council, that will review, amongst other factors, the area-wise demand for natural gas. Earlier in the day, in his opening remarks, Director EIA of the Balochistan Environmental Protection Agency (BEPA) stated that the TAPI Gas Pipeline project was an important project for the people of Balochistan and BEPA will ensure that the concerns and suggestions of the local people are incorporated in the ESIA study.

The ESIA study has been developed by a consortium of international and national consultants including MAB Environmental Services, JACOBS and EMC Pakistan. Shams-ul-Haque Memon, Technical Advisor of the ESIA study explained that the ESIA process for the project was in compliance with national and provincial legislation, relevant international treaties and conventions to which Pakistan is a signatory and international standards and guidelines on impact assessment, including the Asian Development Bank requirements (ADB are potential financiers).

Dr. Zahoor Ahmed Bazai, Associate Professor at the University of Balochistan and a local Climate Change expert, having thoroughly reviewed the ESIA study document, said that he was pleased with the engagement process carried out with local communities and government stakeholders at the district and provincial levels.

Moreover, he expressed that the issues and concerns raised during these engagements, in fact, do reflect the ground-realities of the areas where the pipeline will pass through.

With respect to the water quality data, Dr. Bazai recommended that the proponent should review the primary data with the SPHERE standards for water supply, sanitation and hygiene.

Additionally, he requested BEPA that a project of such international and national importance must be monitored

diligently to ensure compliance in all respects.

A representative of the Balochistan Forest Department urged that all efforts must be made to ensure protection of the Juniper Trees of the province that serve important ecological and economic functions.

In this respect, he recommended that the authorities should give priority to providing gas from this project to areas with a high density of Juniper trees. Gas supply to such local communities will play a significant role in discouraging further tree-cutting.

According to the Former provincial Minister for Education, Mr. Abdul Raheem Ziaratwal, the focus on plantation activities for the project should be on local species such as Sanobar and Zaitoon that can be implemented with agro-forestry initiatives in the project districts.

A female participant, representing the provincial education department urged for greater participation of women at such public hearings. Moreover, she inquired whether women were consulted regarding the project during the ESIA study. Saquib Ejaz Husain representing EMC Pakistan, the local ESIA consultants explained that as per Safeguards Policies of the Asian Development Bank (2009), an intensive series of stakeholder engagement activities were carried out with a range of primary stakeholders including women and other vulnerable groups. In fact, the ESIA study includes both a Stakeholder Engagement Plan (SEP) for the entire project cycle that specifies the stakeholder consultations that must be carried out, the consultation tools and the procedures and process for grievance redress.

Apart from a large contingent of local people from the project districts in Balochistan, representatives from civil society organization, students and professors from the University of Balochistan and former and serving public officials in the event. ■

**Sanjay Thakrar, CEO at Euro Exim Bank Ltd. got economists thinking when he said :**  
**A cyclist is a disaster for the country's economy**  
**He does not buy the car & does not take car loan. Does not buy car insurance. Does not buy Fuel. Does not send his car for servicing & repairs. Does not use paid Parking. Does not become Obese. Healthy people are not needed for economy. They do not buy drugs. They do not go to Hospitals & Doctors. They add nothing to country's GDP.**  
**On the contrary, every new McDonald outlet creates at least 30 jobs - 10 Cardiologists, 10 Dentists, 10 weight loss experts apart from people working in McDonald outlet.**  
**Choose wisely: A Cyclist or a McDonald?**





## Nestlé Cares launched with beach cleaning activity

Nestlé Pakistan launched its global initiative 'Nestlé Cares' with a beach cleaning drive in connection to the World Oceans Day at Sea View Beach, Karachi. Nestlé Cares, the company's Employee Volunteer Program, is aimed at enhancing volunteer activities under one global concept. Initiatives under the Nestlé Cares' volunteer programs will provide employees the opportunity to make an impact by engaging and assisting local communities. Through this activity, Nestlé Pakistan is also contributing towards government's vision of a 'Clean & Green Pakistan' to tackle the issue of pollution, hygiene, sanitation and access to clean drinking water.

Over 100 volunteers, including employees of Nestlé Pakistan, representatives from National Forum for Environment & Health (NFEH), and Consumer Association of Pakistan (CAP) participated in the clean-up activity inculcating a sense of ownership and civic responsibility as they played their role in reducing plastic waste and marine pollution by collecting and sorting plastic disposal at the Sea View shoreline.

While addressing the ceremony, Chief Guest Taimur Talpur, Provincial Minister for Environment & Climate Change said, "I commend Nestlé for their role in fostering a behavior change starting from within by educating, engaging and mobilizing individuals and by providing them the means to act and contribute towards impactful change. It's high time that more organizations such as Nestlé take part and play their role in shaping a waste-free future."

Waqar Ahmad, Head of Corporate Affairs, Nestlé Pakistan, while sharing his views said, "Over the years, thousands of Nestlé employees worldwide have donated their time in supporting activities focused on having a positive impact on individuals and families, our communities and the planet. 'Nestlé Cares' is one of the ways we bring our purpose and values to life."

Commissioner Karachi, Iftikhar Ali Shallwani who also



graced the event, said, "I am delighted to be a part of this initiative with Nestlé Pakistan as it's geared towards encouraging citizens of Karachi for keeping their city clean and plastic-waste free."

Naeem Qureshi, President National Forum for Environment & Health stressed the need for the corporate sector to play its role. "Plastic waste is the largest cause of pollution of rivers and oceans in Pakistan. This cleanup initiative with Nestlé is in line with our long-term ambition and commitment to stop plastic seepage into the environment and avoid further accumulation of plastics in environmental landscape," he said while addressing the ceremony.

Special Assistant to Chief Minister Sindh Qasim Naveed, government officials, members of civil society, and community volunteers also participated at the event. ■

## Sustainable use of oceans and marine resources vital for environment

"We need to empower each and every citizen to take care of the ocean and enable all to play transformative and ambitious roles in understanding, exploring, protecting and sustainably managing our resources", this was stated by Aasim A Siddiqui, Chairman All Pakistan Shipping Association (APSA) and M.D. Marine Group of Companies, in his keynote address on the occasion of World Oceans Day held at Bahria Auditorium the other day. While emphasizing the importance of oceans in the human's life he said that the world's oceans generate an estimated 70% of the earth's oxygen.

Moazzam Khan, from World Wildlife Fund (WWF) Marine Expert also said on the occasion that, humans have done irreparable damage to oceans during the past few centuries and there hardly seems to be a way out of the ensuing destruction. We all used to act now to preserve our oceans. Asif Shaikh Javaid, Vice President KCCI and Dr. Brigadier (Rtd) Nasim Khan an Expert on Alternate Energy also spoke on the occasion. The event was attended by a large number of serving and retired naval personnel, govt officials, faculty members, students and maritime stakeholders.

National Centre for Maritime Policy Research (NCMPR), Karachi chapter of National Institute of Maritime Affairs, orga-

nized the celebrations that were focused to highlight the theme for this year which is "Gender and the Ocean", that is vital to sustainability in the many ongoing efforts to protect and preserve the health of oceans around the world. The theme aims to raise gender literacy and promote gender equality, in ocean related activities such as marine scientific research, fisheries, labour at sea, policy and to endeavor explore ways and means for of sustainable use of oceans and marine resources derived from them.

The maritime experts diluted upon the importance of oceans and participation of all mankind irrespective of gender in perusing this vital asset. Cdre (Rtd) Ali Abbas, Director NCMPR highlighted the importance of oceans to mankind. He said, World Oceans Day is marked by people around the world by honoring the ocean, which provides an opportunity to take personal and community action to conserve the ocean and its resources.. This year theme offers an opportunity to explore the gender dimension of human relationship with the oceans. While women constitute half of the work force, they only comprise 2% of the seafarers' work force and 38% of the overall marine scientists. They earn only 64% of men's wages and have less access to the decision making positions. ■

# GE announces scholarship award winner from Pakistan

GE Renewable Energy and Tricon Boston Consulting Corporation Limited (TBCCL) opened the second emergency medical center in Jhimpir, Pakistan. This unprecedented initiative has been designed and implemented by Aga Khan Medical University Hospital, TBCCL and GE, which opened the first clinic in 2017 in the Thatta District.



The Jhimpir corridor is located 95 kilometers inland from the coast in a semi-desert area, which makes access to necessary medical care for inhabitants difficult. Sapphire and GE Renewable Energy are operating and maintaining four wind farms in the area, the SWPCL and Tricon I, II and III wind farms for a total capacity of 200 MW. These Emergency Medical Centers bring essential medical emergency services to the local community and wind power workforce in a timely manner.

The 24/7 medical facility provides a high level of urgent medical services in this remote location. The clinic is equipped with high quality medical diagnostics and treatment equipment, a pharmacy and a CE certified ambulance, and can each treat up to 60 patients per day.

"Developing a wind project also involves taking care of the surrounding communities," says Nadeem Abdullah, CEO Sapphire Wind Power Co Limited. "The medical center we opened three years ago has been beneficial for the community and we are glad to see a new one coming to life."

"Wind Energy is growing in Pakistan and GE Renewable Energy has a strong presence in the country. It is important for us to make a positive contribution and investment to improving people's lives and safety in the country" says Manar Al Moneef, President & CEO, Middle East, North Africa and Turkey, GE Renewable Energy. ■

# Pakistani singer Arieb Azhar becomes new Global100RE Ambassador



On the occasion of #WorldREnewDay, the popular Pakistani musician Arieb Azhar was appointed a Global100RE Ambassador by the Global 100% Renewable Energy Platform, commenting "I believe that the only future is a renewable one in which human beings can take their rightful place as caretakers and guardians of this Earth and all that dwells on it."

The Global Renewable Energy Platform, renewable energy ambassador and former ESC winner Ruslana, and the Fridays for Future movement joined with a large number of supporting organisations in launching a new annual day celebrating a renewable energy world, free of gratuitous carbon emissions.

To be held on the summer solstice every year from this year on, the event brings together the renewable energy community and all citizens and organisations calling for action towards a 100% renewable energy future. Together, the vision of 100% renewable energy will be made the new normal. ■

# Outstanding Young Heroes in Pakistan receive award in memory of Princess Diana

Being the first from Pakistan this year, ConnectHear, a young social entrepreneurial start-up, has been honoured with The Diana Awards for going above and beyond in their daily lives to create and sustain positive change. "Growing up, I saw my deaf parents struggle with communicating with the outside world. I saw raw talent go un-



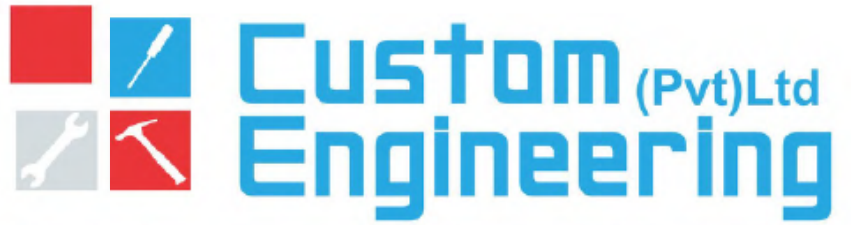
recognized because of the barrier that is language. Using that as a motivation, we aimed to create a platform to eliminate this communication gap and help the deaf people reach their potential," Azima Dhanjee stated in a release.

Inaugurated in the remembrance of Diana, Princess of Wales, the Award is presented by the charity of the same name. It dreams to develop and inspire positive change in the lives of young people through three key programmes which include; a mentoring programme for young people at risk, a youth-led anti-bullying ambassadors campaign, and a prestigious award that recognises young changemakers worldwide.

The late Princess's sons, Prince William, the Duke of Cambridge and Prince Harry, the Duke of Sussex have both pledged their full support to the awards that started in 1999 and have since acknowledged over 48,000 young people across the globe.

Arhum Ishtiaq, Azima Dhanjee, Areej Al Medinah, Zainab Syed, Syed Talal Ali, and Sadaf Amin from ConnectHear, in Pakistan, has been recognised with the highest accolade young people can achieve for Social Action or Humanitarian Efforts - The Diana Award. ■

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## Pakistan Cables appoints Fahd Chinoy as new CEO

Pakistan Cables appoints Mr. Fahd K. Chinoy, as the Chief Executive Officer of the company, effective July 01, 2019 in place of Mr. Kamal A. Chinoy who is stepping down from the role after 27 years.



Mr. Kamal A. Chinoy has been the company's Chief Executive since 1992 and worked relentlessly to position the company as Pakistan's most trusted wire and cable company. During his tenure, the company grew through expansion across market segments, product innovation and technical collaboration with foreign partners. Its focus on sustained growth led to meeting stakeholder expectations consistently as the company's revenues grew from Rs. 300 million to Rs. 9.6 billion, which strengthened its position as the country's leading brand. The market capitalization of the company expanded from Rs. 130 million in 1992 to Rs. 5 billion in 2019.

Mr. Fahd K. Chinoy has nearly 18 years of experience and most recently served as Executive Director and Deputy Chief Executive at Pakistan Cables. He joined Pakistan Cables in 2008 and has helped lead and execute many of the company's investments and strategy decisions and has been on the forefront of several landmark transactions for the company. He carries an MBA degree from INSEAD and did his Bachelor's degree from the University of Pennsylvania. He has previous experience working internationally in the US and Canada in the banking sector.

Pakistan Cables' Chairman, Mr. Mustapha Chinoy said, "Kamal's vision combined with his commitment to serve the long-term interests of the company, have fortified Pakistan Cables in the industry today. He leaves a legacy of strong ethics and excellence that's much needed in the evolving business environment today. I'd like to thank him, on behalf of the Board, for his contribution to the company. ■"

## Govt inks deals for petroleum exploration

The government's reform agenda and efforts to attract investment in the petroleum sector would continue unabated, remarked Federal Minister for Petroleum Omar Ayub Khan.

He was speaking at the signing of petroleum concession and exploration licence agreements at the Ministry of Petroleum.



In a bid to attract investment and meet growing energy requirement of the country, the government executed petroleum concessions and exploration licences for critical blocks in Sindh and Balochistan.

The agreements were signed by Petroleum Secretary Mian Asad Hayuddin and managing directors of PPL and OGDC. Special Assistant to Prime Minister on Energy Nadeem Babar was present on the occasion.

An agreement has been signed with PPL for block 2,768-1 (Sorah) whereas for block 3,069-10 (Musakhel) the deal has been inked with a joint venture of OGDC and PPL. For block 2,667-9 (Khuzdar south), the agreement has been struck with OGDC. These blocks are located in Sindh and Balochistan. Sorah block covers an area of 1,151.70 square kilometres and is located in Sukkur (61.92%) and Khairpur (38.08%).

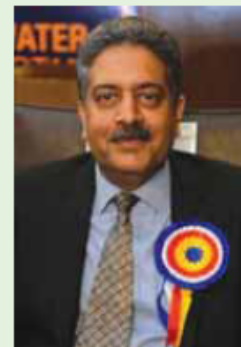
Khuzdar south block falls in Khuzdar (87.42%) and Dadu (12.58%) districts and covers an area of 2,493.36 square kilometres. Musakhel block is located in Musakhel (94.92%) and Zhob (5.08%) districts and spans an area of 2,176.15 square kilometres. ■

## Dr Rana Jabbar appointed as CEO, AEDB

The government is likely to appoint Dr. Rana Abdul Jabbar and Ms Nida Rizwan Fareed as Chief Executive Officer (CEO), Alternative Energy Development Board (AEDB) and Manager Director, National Energy Efficiency and Conservation Authority (NEECA) respectively, .

AEDB is an autonomous body under the administrative control of Ministry of Energy (Power Division). As per section 5(1) of the AEDB Act, 2010, the CEO, AEDB shall be appointed by the federal government and the terms and conditions of the CEO, his remuneration and privileges shall be such as may be determined by the federal government.

Power Division initiated the process of recruitment for the post of CEO AEDB in pursuance of the Cabinet decision of January 10, 2019. The post of CEO AEDB was advertised in the national dailies on February 20, 2019. A total of 109 candidates applied for the position. The short-listing committee constituted with the approval of the Minister for Power Division evaluated a total of 109 candidates and shortlisted 15 candidates for interview. The interview/ selection committee interviewed 11 shortlisted candidates, while 4 candidates remained absent and did not appear for the interview. The committee re-interviewed candidates on June 26, 2019 and finally recommended a panel of three candidates for appointment against the post of CEO, AEDB in the order of priority as follows: (i) Dr. Rana Abdul Jabbar Khan; (ii) Azhar Khadim; and (iii) Zahid Majeed. ■





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## Annual Environment Conference 2019

# Provinces should assume responsibility to protect environment

## 52 companies win 16th Annual Environment Excellence Awards-2019

### Report by Mustafa Tahir

The National Forum for Environment & Health (NFEH) in collaboration with its partner organizations have organized perfect day-long event to discuss threadbare serious environmental issues concerning Pakistan.

The NFEH collaborated with Environment Management Consultant, Sindh Environment Department, and other partner organizations to organize the Annual Environment Conference-2019.

The day-long moot was organized to discuss environmental challenges of the country in the context of the global issues of climate change.

At the conference, representatives of all the concerned stakeholders in the country, be it the representatives of industry, NGOs, or the regulator; were



Glimpse of Speakers at Annual Environment Conference 2019. From Right to Left Javed Jabbar Former Minister Information, Capt. Fahim uz Zaman Khan Former Administrator Karachi, Shams ul Haq Memon, Nauman Khan NED, Syed Nadeem Arif CEO EMC & M. Naeem Qureshi President NFEH.



Group Photo of 16th AEEA Award Winners with Chief Guest Chief Secretary Sindh Mumtaz Ali Shah

**AAEA 2019 Winners:**

1. Abbott Laboratories Pakistan Limited
2. ASG Metals Limited
3. Artistic Denim Mills Limited
4. Archroma Pakistan Limited
5. Attock Refinery Limited
6. Bestway Cement Limited Chakwal
7. Bestway Cement Limited Farooqia
8. Bestway Cement Limited Hattar
9. Bestway Cement Limited Kallar Kahar
10. Byco Petroleum Pakistan Limited
11. Century Paper & Board Mills Limited
12. D.G.Khan Cement Company
13. Engro Fertilizers Limited
14. EFU General Insurance Company
15. Fatima Fertilizer Company Limited
16. Fatima Fert Limited Plant Site Shaikhupura
17. Fast Cables Limited
18. GSK Consumer Healthcare Pakistan
19. Habib Oil Mills Pvt Limited
20. Haleeb Foods Limited
21. Huaneng Shandong Ruyi Pakistan Energy Pvt Limited
22. Indus Motor Company Limited
23. Kot Addu Power Company Limited
24. K-Electric
25. KSB Pumps Company Limited
26. Liberty Mills Limited
27. Lotte Chemical Pakistan Limited
28. Lucky Cement Limited
29. Lucky Textile Mills Limited
30. Martin Dow Limited
31. Martin Dow Marker
32. Mal Pakistan Limited
33. Mondelez International Pakistan
34. Mughal Iron & Steel Industries Limited
35. Mustaqim Dyeing & Printing Industries
36. National Refinery Limited
37. Oil & Gas Development Company Ltd.
38. Pak-Arab Refinery Limited
39. Pakistan Accumulators (Pvt) Limited
40. Pakistan Cables Limited
41. Pfizer Pakistan Limited
42. Pharvevo (Pvt) Limited
43. Qarshi Industries (Pvt.) Limited
44. Quality Testing Services (Pvt) Limited
45. Roots School System
46. Security Papers Limited
47. Sindh Engro Coal Mining Company
48. Sui Southern Gas Company Limited
49. Thal Engineering Limited
50. The Aga Khan University Hospital
51. The Searle Company Limited
52. Uch Power (Pvt.) Limited

**Tree Plantation Award Winners:**

53. Samsons group of companies pvt ltd.
54. Archroma Pakistan Limited
55. Engro Fertilizers Limited
56. Abdullah Rafi Chairman Aladin Park
57. Saylani Welfare Trust



(From R to L) Chief Secretary Sindh Mumtaz Ali Shah, Dr. Mirza Ikhflar Baig, Javed Jabbar, Capt. Fahim Zaman Khan, Adv Shahab Usto, M. Naeem Qureshi, Shams ul Haq Memon, Saqulb Ejaz, Najja Arif, Amber Ali Bhai, Abdullah Rafi, Engr. Nadeem Ashraf, Junaid Makda, Kamal Amjad, Khalid Iqbal, Salman Mohiyuddin, Engr. Pervaiz Saldq, Rehan Hashmi and others speaking at the conference.

invited to discuss the issues of environmental degradation and climate change.

Towards the end of the conference, the occasion was befittingly utilized to duly recognize the companies and organizations, which during one last year took care of the environment in best of the manner through their exemplary corporate and industrial practices.

One of the most emphatic calls of the conference was that the provincial governments before wasting any more

time should assume their responsibilities pertaining to the protection of environment in the light of 18th Constitutional Amendment as there is no obstruction in the way of the provinces to do their part to contain the phenomenon of climate change.

This was one of the demands contained in the keynote address of Annual Environment Conference-2019 delivered by former Federal Information minister and noted scholar Javed Jabbar.

“The provinces should strengthen

## Event Report



their institutions and provide resources to protect the environment in the light of the powers they gained after the 18th Constitutional Amendment. Nobody is stopping the provinces from doing so,"



**Ms. Ruqiyah Naeem presenting shield to Secretary Sindh Mumtaz Ali Shah**

said Jabbar on the occasion.

He said that the provinces had no choice other than to play this role in the light of the responsibilities passed on to them after the 18th Amendment. "There exists Environment Department in the provinces as it needs to be strengthened. Till now the situation is such that the ministry of Environment Department in the provinces is given to someone either as an act of punishment or charity as this trend needs to be changed," he said.

The former federal minister said that provinces should enact more effective laws for serving the cause of the environmental protection in best of the manner.

Mr. Jabbar said that population welfare was another aspect whose responsibility should be assumed by the provinces in the light of their increased role

in governance.

He said that population growth rate had a direction relation with the situation of environmental degradation in terms of availability of resources, which are vital for human life.

"It would be grave oversight on the part of the authorities concerned if they are ignoring the impact of population on the environment," he said.

He said that only 35 per cent of the married couple in Pakistan use contraceptives, which is way too less practice of population control methods as compared to much higher prevalence of contraceptives in the nearby countries of Iran, Turkey, and Bangladesh all having Muslim majority population.

"One should keep in mind that Paki-



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stan was one of the earliest countries in the Asian region, which adopted a population control policy in the decade of 1960s," he said.

Also speaking on the occasion, Prof Dr Noman Ahmed of Department of Architecture and Planning of the NED University of Engineering & Technology, mentioned a recent statement of Commissioner Karachi according to whom there were 1578 designated public parks in the city as nearly half of them were encroached.

He said that clearing these parks of encroachments was not an easy task as human settlements were involved in many of such instances whose eviction would cause a major social uproar.

He said that if in case all the proposed seven lines of the Bus Rapid Transit Service were built and made operational in Karachi then they would only cater to eight per cent passenger traffic that had to rely on commuter services daily in the



Group photo of Sponsors with Guest of Honour Dr. Mirza Ikhtiar Baig

Former Administer Karachi Captain Fahim Zaman Khan said the census of 1998 showed that there were just 300,000 four-wheelers in Karachi whose number had increased to 3.5 million in the census of 2017. Similarly there were 1.4 million

in the Himalayas, which feed to the Indus River as the melting of these glaciers had started fast due to the phenomenon of global warming.

He lamented that work on the K-IV bulk water project for Karachi had been stopped for last eight months as the design and cost of the scheme was being re-evaluated as in such a situation people of the city had to gravely suffer due to the shortage of the water resource.

Advocate Shahab Usto emphasized that Supreme Court-mandated commission on water and sanitation issues in Sindh should continue its work as projects initiated by it would go a long way in serving the cause of environmental conservation.

He said that the Water and Sanitation Commission had identified 750 points all over the province where sewage was being mixed with fresh water resource as 190 of them already been addressed.

He said that owing to the efforts of the Water Commission, industries of the province had given written undertakings to install pre-treatment effluent plants at their sites individually as earlier the Sindh Environmental Protection Agency had completely failed to discharge such responsibilities.

NFEH President Naeem Qureshi urged the provincial governments to empower their respective environmental protection agencies so that a cohesive nation-wide action could be initiated to tackle the damaging phenomenon of



Group photo of NFEH Team with Junaid Makda, President KCCI

city.

He said that a fresh city-wide plan should be adopted at the earliest so to tackle the ever exacerbating civic issues of Karachi in view of its depleting resources.

He said that Karachi had been once gifted with strong leaders in the pre-partition era who acted as mayors of the city. "The institutions of the city were also strong in that era, which is no more the case. Now Karachi lacks both strong leaders and municipal institutions," he said.

two-wheelers in Karachi whose number had increased to 3.1 million in 2017.

While the census of 1998 had showed that there were 22,000 public buses in Karachi whose number had decreased to 10,000 to 12,000 in the census of 2017.

Acting President of FPCCI Dr Mirza Ikhtiar Baig said that fuel mix being used in the country to generate electricity had been proving too costly for the national economy and also causing damage to the environment due to heavy reliance on conventional resources of energy.

He said that there were 5,000 glaciers

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## Event Report

climate change.

Addressing the concluding session of the event as its chief guest, Sindh Chief Secretary Mumtaz Ali Shah said that provincial governments of Pakistan were very much onboard in the efforts being done nationally and all over the world to address the issue of climate change.

He said that one instance of such efforts was that no development project sponsored by any of the provincial government could be launched without conducting its prior Environmental Impact Assessment Study.

He said that Sindh government would allocate maximum resources and do best of its efforts to ensure best environmental practices in all development projects being undertaken in the province.

Also on the occasion, Sindh Chief Secretary also awarded 16th Annual Environment Excellence Awards-2019 to some 52 companies and organizations for observing best environmental practices during one last year.

Other speakers of the event include KCCI President Junaid Makda, Amber Ali Bhai, Saquib Ejaz Hussain, Syed Nadeem Arif, Hasan Bakshi Chairman ABAD, Moazzam Ali Khan Environmentalist, Rafi ul Haq Ecologist, Sham ul Haq Memon, Zofeen T Ebrahim, Afia Salam, Khalid Iqbal, Ijaiz Hussain Khilji and others.



**Ms. Ruqya Naeem presenting shield to President KCCI Junaid Makda**

As many 52 companies and organizations were awarded the 16th Annual Environment Excellence Awards-2019 (AEEA-2019) here at a ceremony for their excellent performance in observing best environmental practices during one last year.

The awards' ceremony was organized by the National Forum for Environment and Health (NFEH).

Sindh Chief Secretary Mumtaz Ali Shah was the chief guest on the occasion who also gave away awards to the representatives of the successful companies.

Speaking on the occasion, Sindh Chief Secretary Mumtaz Ali Shah said that provincial governments of Pakistan

were very much onboard in the efforts being done nationally and all over the world to address the issue of climate change.

He said that one instance of such efforts was that no development project sponsored by any of the provincial government could be launched without conducting its prior Environmental Impact Assessment Study.

He said that Sindh government would allocate maximum resources and do best of its efforts to ensure first-rate environmental practices in all development projects being undertaken in the province.

Also speaking on the occasion, NFEH President Naeem Qureshi urged the provincial governments to empower their respective environmental protection agencies so that a cohesive nation-wide action could be initiated to tackle the damaging phenomenon of climate change.

Former Sindh Environment secretary and consultant of Sindh Coastal Development Authority Shamsul Haq Memon served as head of the jury of the awards.

Khalid Iqbal, project head of AEEA-2019, on the occasion explained in detail stringent criteria used to select the award winners.■

## 16th Annual Environment Excellence Awards 2019 Winners



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**ARCHROMA PAKISTAN LIMITED**



**ARTISTIC DENIM MILLS LIMITED**



**ASG METALS LIMITED**



**ATTOCK REFINERY LIMITED**



**BESTWAY CEMENT LIMITED**

## 16th AEEA 2018 Winners



**BESTWAY CEMENT LIMITED**



**BYCO PETROLEUM PAKISTAN LIMITED**



**CENTURY PAPER & BOARD MILLS LIMITED**



**DR ESSA LAB**



**ENGRO FERTILIZERS LIMITED**



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# 16th AEEA 2018 Winners



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## 16th AEEA 2018 Winners



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**QARSHI INDUSTRIES (PVT.) LIMITED**



**QUALITY TESTING SERVICES (PVT) LIMITED**



**SECURITY PAPERS LIMITED**



**SINDH ENGRO COAL MINING COMPANY**



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## SPECIAL REPORT

# 16<sup>th</sup> Annual Environment Excellence Awards 2019



### About NFEH:

National Forum for Environment & Health, commonly known as NFEH, is a purely Non-Governmental, Non-Profit Organization, established on June 05, 1999, with the aim to facilitate, promote and help create environmental, healthcare and educational awareness among the masses in general and youth and children in particular. NFEH is affiliated with the United Nations Environmental Programme (UNEP) and supported by the Ministry of Environment, Govt. of Sindh. It is committed to serve and promote the causes of healthcare and protection of natural environment by creating awareness among all segments of society. NFEH has been successfully organizing various interactive events to meet these objectives. Annual Environment Excellence Awards were instituted fifteen years ago and have elicited a very enthusiastic response from the industry. These awards have become the benchmark for the standards that need to be followed.

### Aims & Objectives of NFEH's Annual Environment Excellence Awards

The Annual Environment Excellence Awards are designed to recognize and promote the organizations which make an outstanding contribution to sustainable development. They aim to highlight policies, practices, processes and products from all sectors of business in the country, which help achieve 'economic and social development without detriment to the environment and natural resources upon the quality of which continued human activity and further development depend.'

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### Our Honourable Jury

**Syed Nadeem Arif** is a practicing professional in the field of environmental engineering and management systems. He has been engaged in conducting environmental & social impact assessment studies for the last twenty two years in the capacity of project director. He is an experienced trainer and has conducted numerous courses and trainings on ISO 14000 Environmental Management Systems, ISO 9000 Quality Management Systems and OHSAS 18001 Occupational Health & Safety Assessment Scheme. He is also a qualified Environmental Auditor.

Arif has vast experience in defining strategic planning, monetary and Technical matters, scheduling of the projects, preparation of contractual claim documents, report generation, computer based time scheduling and planning, coordination with the clients, negotiations etc. He has extensive experience in implementation of HSE Management Systems and conducting safety audits. He advises on the Occupational Health and Safety aspects of projects and has a good understanding of the applicable Occupational Health and Safety laws. Besides his professional engagement, he is actively in the field of academics and delivered series of lectures on several topics related to Environment, Health & Safety in different seminars, workshops and conferences. Arif is a consultant of various clients on Environmental, Health & Safety Standards and uses his best environmental management during projects to ensure safe working practices. He provides guidance to project managers in conducting internal EHS audits and trainings on relevant environmental topics.



**Shamsul Haq Memon**

is well-know name in the Pakistan's environment sector having valuable contribution to the society and the country with his experience, efforts and activities. He is the most sought-after person for any activities of environment for supervision and guidance. Hence he has been requested to be a member of the jurist panel of Annual Environment Excellence Awards 2011.

Memon is academically impressive and professionally sound. He has done his masters in Natural Resource Management & Environment from U.S.A. I have also a masters degree in Biological Sciences from Sindh University Jamshoro. Memon has done his graduation in Forestry from University of Peshawar. In his different roles of services, he served the government as Secretary to Government of Sindh, Forests & Wildlife, Environment & Alternative Energy Departments. During his tenure, he has done marvelous job for pollution-free environment. He is also a former Technical Advisor to Sindh Coastal Development Authority.



### Inspection & verification of award nominees

By Khalid Iqbal, Vice President (Technical), NFEH

The world is changing rapidly so as the National Forum for Environment (NFEH) in order to provide unique and valued-added services in Health and Environment Sectors in Pakistan. The unique brand of "Annual Environment Excellence Award - AEEA" brought best companies of Pakistan at the NFEH's Platform regardless of size, geographic origin and presence in world's map.

The NFEH has always appreciated the feedbacks being received every year from the participating companies and stakeholders and the management of NFEH is keep improving the overall idea of AEEA initiated in year 2004. And with a decade celebration last year in 2013, the NFEH has now fulfilled yet another promise of "Inspection & Verification" under the 'Selection Process' specified in AEEA's Nomination Form.

The idea has been appreciated by many companies by giving the leverage to NFEH's Inspection, Monitoring & Verification (IMV) Team not only in Inspecting the Facility to see the overall effectiveness of EMS & Policy, Competency of staff and Level of awareness among the workers; but also got prompt answers from the Departmental Heads based on their submissions of nomination papers and the questions as specified

in the Inspection Form.

The IMV Team visited many facilities, conducted verifications of provided data, received additional documents to fulfill the total inspection and verification requirements before conferring the AEEA Awards and especially for selecting the Top-10 Winners of AEEA-2014.

The IMV process also helped the NFEH to check the conformity of Jury's Independent Reports. The ratings of IMV & Jury's Nominations Results are based on grading from 1-10 and 1-100 respectively. The average ratings results are 80% and 78% respectively.

The IMV Team thank to all HSEQ Heads for extending their cooperation in fulfilling the desired tasks based on valuable feedbacks being received by the National Forum for Environment Health.

Our journey towards acknowledging, appreciating and cooperating the progressives Environment Promoting Companies are continued and now we look forward to your organization's effective & contributing propagation being as the 'Brand Ambassadors of AEEA' for Greener and Cleaner Environment in Pakistan.



AEEA Glimpses

**2018 AEEA Winners**



**2017 AEEA Winners**



**2016 AEEA Winners**



### AEEA Glimpses

**2015 AEEA Winners**



**2014 AEEA Winners**



**2013 AEEA Winners**



**2012 AEEA Winners**



**2011 AEEA Winners**



**2010 AEEA Winners**



**2009 AEEA Winners**



**2008 AEEA Winners**



**2007 AEEA Winners**



**2006 AEEA Winners**



**2005 AEEA Winners**



**2004 AEEA Winners**





## Solar Home Solutions

## Solar Pumping System



Solar Street Lights

## Solar Water Heater



## Range of Industrial Fans



# SEARLE

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AKAR Hospital, Karachi  
(Managed by Searle)



Searle Research and Development (R&D)  
Center at the ICCBS, University of Karachi.



The Citizens Foundation

## Abbott In Pakistan



Since 1948, Abbott has been dedicated to helping people in Pakistan live healthier lives through a diverse range of science-based nutritional products, diagnostic tools, pharmaceuticals and diabetes devices.

Abbott in Pakistan reflects our dedication to manufacturing the highest-quality products and finding lasting solutions to unique local health challenges. We have more than 1,400 employees at our home office and manufacturing facilities in Karachi; our sales offices in Lahore, Peshawar and Rawalpindi; and our distribution depots in Islamabad, Lahore and Multan.

Whether we're developing diagnostic tests to ensure local people can benefit from the latest treatments or revolutionizing the way people monitor their glucose, we're at the forefront of science and innovation in everything we do.

Abbott offers an array of leading products in Pakistan to help people live healthier, fuller lives.

### Nutrition

We understand that proper nutrition is the foundation for living the best life possible. That's why we develop science-based nutrition products for people of all ages. Our products help babies and children gain optimal mental and physical growth, keep bodies strong and active of old age consumers for healthy aging, and support the unique nutrition needs of people with chronic illnesses - to make every stage of life a healthy one.

### Diagnostics

Diagnostic testing is a compass, providing information that helps in the prevention, diagnosis and treatment of a range of health conditions. Abbott's life-changing tests and diagnostic tools put the power of health in the hands of people in all parts of the world. Our innovations aid physicians in Pakistan with molecular and laboratory diagnostic testing.

### Branded Generic Pharmaceuticals

In Pakistan, Abbott seeks to become a trusted partner by providing high-quality, affordable branded generic pharmaceuticals to a wider range of people across the country, and we continuously improve our medicines to make them better, easier to administer and faster to act.

### Diabetes

We believe people with diabetes should have the freedom to enjoy vigorous, active lives. We're revolutionizing the way people monitor their glucose with our precise, easy-to-use diabetes products.

### SUPPORTING OUR COMMUNITY

We're dedicated to making a positive impact in the communities where we live and work, through partnerships that promote better quality of life for people across Pakistan. ■

## Attock Refinery Limited



Attock Refinery Limited (ARL) was incorporated as a Private Limited Company in November, 1978 to take over the business of the Attock Oil Company Limited (AOC) relating to refining of crude oil and supplying of refined petroleum products. It was subsequently converted into a Public Limited Company

in June, 1979 and is listed on the Pakistan Stock Exchange Limited. The Company is also registered with Central Depository Company of Pakistan Limited (CDC). Original paid-up capital of the Company was Rs 80 million which was subscribed by the holding company i.e. AOC, Government of Pakistan, investment companies and general public. The present paid-up capital of the Company is Rs 1,066.163 million. ARL is the pioneer of crude oil refining in the country with its operations dating back to 1922.

The latest Expansion / Up-gradation Project completed in November 2016 comprised the following:

1. Diesel Hydro Desulphurization (DHDS) of capacity 12,500 bpd: This has reduced Sulphur contents in the High Speed Diesel to meet Euro II specification.
2. Preflash unit: This has increased refining capacity by 10,400 bpd.
3. Light Naphtha Isomerization unit: This has enhanced production of Premium Motor Gasoline by about 20,000 M. Tons per month;
4. Expansion of existing Captive power plant by 18 MW: ARL's current nameplate capacity stands at 53,400 bpd and it possesses the capability to process lightest to heaviest (10-65 API) crudes.

The Company is ISO 9001, ISO 14001, OHSAS 18001 certified, accredited its lab with ISO/ IEC 17025 and is the first refinery in Pakistan to implement ISO 50001 (Energy Management System). ■

**"We cannot hope to create  
a sustainable culture with  
any but sustainable souls."**

*Derrick Jensen, Endgame*

## Abbas Steel Group



Abbas Steel Group has been a major player within the Pakistan steel industry for over 30 years with an annual production capacity of over 300,000 MT per annum.

Our focus is to provide the highest quality products to meet the changing needs of the construction industry and

our diversified product range enables us to provide a one stop solution for all our customer's steel requirements. The operations under the umbrella of Abbas Steel Group includes ASG Metals Limited for production of Deformed Bars, Plain Bars, Square Bars, I-Beam, Girders, Angles, Tee Iron, Leaf Spring (SUP 9), Wire Rod, Galvanized Wire, Annealed Wire, Binding Wire, Fencing Net and Barbed Wire.

The Group is an emerging conglomerate of the country with its operational foot print spanning for trading, mining, steel products and manufacturing.

Our Steel plant producing Bars conforming to ASTM 615

and ASTM 706 depending upon the requirement of our renowned customers. The plant is PSQCA, ISO 9000 and ISO 14000 certified.

A full-fledged testing laboratory is operative at steel making plant ASG Metals Limited to analyze the chemistry of the cast billet at the time of manufacturing and before shifting to rolling mill for production of quality deformed bar as per international standard ASTM A615 for grade 40 and grade 60 with a lab facility is available at the plant for mechanical testing and provide MTC (Mill Test certificate) with the supply of quality product.

Our Group is committed to building strong long-term relationship with customers through timely product manufacturing, prompt delivery system and effective engineering support whenever needed. We believe that meeting the highest customer satisfaction level is important for corporate success and this is essential for good business relationship.

We are consciously on Corporate Social Responsibility responding and provide sound working environment to our employees. ■

## Artistic Denim Mills Ltd.



Artistic Denim Mills Ltd is a Premium Denim fabric & Garment producer. Company is public listed and started production in 1993, vertically integrated from Yarn to finish garments.

Spinning Unit: ADM spinning unit is equipped with state of the art equipment provide high quality yarn and complete

backup support. A variety of yarns from 5.5 single to 30 single are produced in open end, ring spun, core spun Lycra, core spun T400® and special DualFX™ yarn.

ADM is producing Premium denim fabrics with production capacity 2.5 Million yards per month. We offer unique market solutions for every customer, from rejuvenating brands to followers with our innovative premium denim fabrics with variety of hues for apiece season.

Weaving: Belgium /Italian/ Swiss & wider width technology enables weaving of all type of denim fabrics in weights from 7oz to 15oz. All machines are centrally monitored and controlled

to produce defects free quality.

Denim Fabric Inspection Inspection: Every fabric is closely inspected at every stage. Apart from the Four Point American Standard of Inspection, our strict in house quality control standards are followed to give the customer premium quality fabric.

Labs: We believe quality is an important driver to earn customers loyalty. ADM has been developed quality control infrastructure to provide utmost excellence standards on all production and lab testing stages, from yarn to fabric and from fabric to finished garments.

GARMENT UNIT ADM garment unit is having latest equipment, production capacity of 30,000 garments per day.

In House Power Generation Generation Plant: ADM has its own power generation setup to accelerate production from converting cotton to finished garments. Our self power generation capacity is 15MW with heat recovery system. Solar Panels in addition to the use of Close Loop power generation make sure our facility is 100% self sufficient in power generation. ■



## Archroma Pakistan Limited



Archroma was formed in September 2013 from the textile, paper and emulsions businesses of Clariant. Clariant itself was formed in 1995 as a spin off from Sandoz, a chemical company which was established in Basel in 1886. In 1997, Clariant acquired the specialty chemicals business of Hoechst, a German chemical company. Through this direct lineage,

Archroma has also acquired textile Chemicals Business of BASF In 2015. Archroma, represents on five continents and more than 35 group companies, employs around 3,000 people, headquartered in Reinach, Switzerland.

Archroma is global leader providing colors and specialty chemicals to sectors such as fibers and fabrics, paper and packaging, as well as adhesives, coatings and construction. A company with proven innovation power, strong core technologies and a global footprint, and a deep commitment to ecology and sustainability.

In Pakistan, Sandoz (Pakistan) Limited was formed in 1963 subsequently became Clariant Pakistan Limited and incorporated in 1996 and now Archroma Pakistan Limited is listed on the Pakistan Stock Exchange. It has manufacturing facilities at Jamshoro. Besides manufacturing, the Company also acts as Indenting agents for the parent company and affiliates.

Based on the Company's performance Archroma Pakistan (formerly: Clariant Pakistan) has been honored for the 14th consecutive year with prestigious Top 25 Companies Award by the Pakistan Stock Exchange.

In addition to this the Company has also been awarded:

- Environment Excellence Award 2005, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017 & 2018 by the National Forum for Environment and Health on following best practices for Environment protection.

- Fire & Safety Excellence Award 2011, 2012, 2013, 2016 & 2018"

- Occupational Safety, Health & Environment Trophy 2009, 2010, 2015, 2016 & 2017 from EFP & ILO.

- Workplace Safety award 2012 (In large industry category, 2nd position) from EFP & ILO.

- Certificate of Excellence in Chemicals Sector by Management Association of Pakistan (MAP) for last Six year.

- Excellence award in best HR practices.

- Award for Excellence in Women Empowerment.

- CSR Award in the field of Bio Diversity & Conservation on

Archroma continuous efforts towards strengthening environmental standards thru saving natural resources specially water conservation at our prod.■

## Byco Petroleum Pakistan Limited



The Byco Group was founded by its Founder and first Chairman, Mr. Parvez Abbasi in the mid-90s with the vision to pioneer change in Pakistan's energy sector. Byco Petroleum Pakistan Limited was formed in January 1995 as public limited company.

Byco installed its first oil refinery with a 30,000-barrels-a-day capacity at Mouza Kund, Hub Balochistan, and began commercial production on 1 July 2004 producing liquefied petroleum gas, light naphtha, heavy naphtha, high-octane blending component, motor gasoline, kerosene, jet fuels, high speed diesel, and furnace oil.

The company ventured into the petroleum marketing business in 2008, setting up its first retail outlet; the retail network has since seen exponential growth currently having more than 360 outlets nationwide.

After successful establishment of the first refinery, the group decided to establish a 120,000-barrels-a-day refinery in 2008 and bought an aromatic plant for future implementation.

In February 2008, a leading private equity firm of the MENASA region (Middle East North Africa and South Asia), took a significant minority equity stake in Byco.

In 2012, Byco successfully commissioned the largest refinery in the country. This new refinery was installed near the existing refinery and has a capacity of 120,000 barrels a day, bringing Byco's total installed refining capacity to 155,000 barrels per day, the highest in all of Pakistan today.

That same year, Byco achieved another milestone by successfully commissioning Pakistan's first and only Single Point Mooring (SPM). This floating port is located 13 km offshore in the Arabian Sea near Chama Island. Byco's SPM has the capacity to handle very large petroleum cargo vessels (VLCC's), and gives Byco a distinctive competitive strategic advantage in Pakistan's petroleum industry.

Byco manages more than a quarter of all petroleum sold in Pakistan and is the nation's only vertically integrated Oil Company.■



# 16<sup>th</sup> Annual Environment Excellence Awards 2019

## Bestway Cement Limited

### Quality Assurance

The company's leadership is not just limited to manufacturing. Only recently, it has branched out to promote research and development of building and construction solutions that will add value for its customers.

Bestway Cement is a Company driven by quality consciousness and efficiency. At Bestway, quality is assured through systematic and effective adoption, implementation, monitoring and continuous enhancement of quality control systems using latest methods of analyses. All stages of the production process right from the selection of raw materials, processing of materials and the finished product are subjected to rigorous testing to ensure that each bag of cement is of the highest quality.

The cement produced by Bestway conforms to the product specification defined under Pakistani, Indian, British, European and American Standards.

### Environment

Wellbeing of the social environment in which Bestway operates in is considered an integral part of its success. Bestway plants are ISO 14001:2004 Environmental Management System (EMS) certified.

Bestway is the only market player in the cement industry which has a dedicated environment department lead by and consisting of experienced environmental resources. This department has been assigned the task to make sure that the operations of Bestway are not only within the applicable national environmental quality standards but also complies with international standards.

Bestway Cement is as economic as possible with energy and limits the emissions of potentially hazardous substances to a minimum. As an emitter of greenhouse gases, Bestway is aware and accepts its responsibility to minimise and offset these emissions through its actions. Its plants not only meet the stringent environmental quality standards prescribed by the Environment Protection Authority of Pakistan, they even surpass the national and inter-



national standards for emissions. Bestway's emission levels are below 50 microns, whereas the Government of Pakistan's acceptable standards are 300 microns and international standards are 50 microns per cubic meter of air at NTP.

Bestway is pioneer in establishing Pakistan's first Waste Heat Recovery Power Plant (WHRPP) at a cost of US\$47 million. It is one of the only companies in the industry with WHRPP efficiently working at all of its plants reducing dependency on the National Grid.

Bestway Cement is on its way to becoming the leader in water conservation as it is the first one in the country to employ the Air Cooled Condenser Systems instead of the conventional water cooled systems. Bestway is also the only one to start rain harvesting through construction of big rain harvesting reservoirs in order to reduce dependence on underground water.

Bestway's plants follow a comprehensive plan to keep their plants green with extensive annual plantation while having thousands of olive, citrus and other fruit plants in their orchards at each plant location.

### Sustainability

The philanthropic arm of the group, Bestway Foundation was established in 1987 in the UK and later in 1997 in Pakistan.

Certified from the Pakistan Centre for Philanthropy, Bestway Foundation supports many national charities, educational institutions, societies and trusts in Pakistan and abroad, in addition to supporting many natural disaster rehabilitation and relief efforts, providing free

medical facilities to more than 35,000 patients in the local communities annually, while valiantly protecting and creating a healthier environment for all.

Since its establishment, over 500 students have been provided scholarships to pursue higher studies abroad primarily in the UK, USA and Canada. The Bestway Foundation Pakistan annually provides 300 scholarships to students across the country. Bestway is also offering 12 fully funded scholarships every year for deserving and talented Pakistani students in the Oxford University, University of Bradford and University of Kent in the UK.

Bestway employs hundreds of trainee engineers, management trainees and apprentices every year, who undergo intensive training in their respective field. Since 1998, Bestway Cement has trained over 2,500 apprentices in order to enhance the skills of the local community.

To date Bestway Group has contributed nearly US \$ 34 million to fund the charitable activities of national and international societies and endow projects of communal uplift in the countries in which it operates.

### Future Outlook

The world is rapidly expanding; sociologists foresee by 2050, 70% of the world population living in cities. As we witness urbanisation rapidly spread and cities develop and expand in Pakistan, Bestway Cement is committed to building on strength across the country by improving lives for local communities, safeguarding the environment, contributing to the country's economic growth and providing superior returns for its shareholders. ■



## Century Paper & Board Mills Limited



Century Paper & Board Mills Limited Pakistan (CPBM) is the largest integrated Pulp, Paper and Paperboard unit of the country with total installed capacity of 240,000 M. Tons per year (TPY). It is a part of Lakson Group of Companies, which is one of the major business groups of the country. Lakson Group of Companies,

enjoys market leadership in most of its businesses, which include Detergents, Dish Washing products, Toothpastes, Soaps, Paper & Paperboard, Printing & Packaging, Fast Food Restaurants (McDonalds), Publications & Electronic Media, Internet Services, Software Development, Surgical Instruments, Textile, Insurance, and Travelling. Apart from some other business lines, a trust for philanthropic activities is also managed by the Lakhani family (Sponsor Directors of the Group). CPBM started its commercial production in 1990 with Three Paper Machines (PMs) with an installed capacity of 30,000 TPY. Current installed capacity of the plant is 240,000 TPY since 2008 with Seven Machines (PMs) in operations. In 2003 Company entered into manufacturing of quality Corrugated Cartons business line with current installed capacity of 40,000 TPY. The plant is installed on National Highway some 62 KM near the major industrial city of the country, Lahore. The location of the plant was well thought considering multiple factors which include availability of quality underground water, agricultural residual and the most rapidly growing economic part of the country. The plant covers a land of 162 acre (64 Hectares) facing National Highway and on its right side main drain is available for disposal of duly treated waste water complying with all applicable environment related rules and regulations comfortably. Being an Integrated Paperboard Mill company has two Pulp Lines to process wheat straw and other agricultural residuals to produce Bleached and Unbleached Virgin Indigenous Pulps. The chemicals required for pulp mills are produced at mills site mainly. In view of the energy constraints, company developed a very comprehensive power generation back up apart from the load available from national grid to meet the Energy requirements of the plant with multiple options to use Natural Gas, Biomass, Coal, Furnace Oil or High-Speed Diesel, which is supporting most viable and continuous operations of the company to strengthen its position as the most reliable source of supply to its valued customers chain. ■

To get daily updates about Environment & Energy Sector of Pakistan log into [www.energyupdate.com.pk](http://www.energyupdate.com.pk)

## D.G. Khan Cement Company Limited



D.G. Khan Cement Company Limited (DGKC/the Company) is a public limited company incorporated in Pakistan. It is listed on Pakistan Stock Exchange. It is blue chip stock. The Company is created and governed by its statutory documents Memorandum and Articles of Association registered with country corporate

authority. The Company is primarily engaged in production and sale of Clinker, Ordinary Portland Cement and Sulphate Resistant Cement. The Company is progressive and its track record is witness to it. It has created, developed and improved stringent and efficient systems in all areas. Ethics are core to it. The Company is compliant to all applicable laws, regulations and standards.

### VISION

"To transform the Company into a modern and dynamic cement manufacturing company with qualified professionals and fully equipped to play a meaningful role on a sustainable basis in the economy of Pakistan.

### MISSION

To provide quality products to customers and explore new markets to promote/expand sales of the Company through good governance and foster a sound and dynamic team, so as to achieve optimum prices of products of the Company for sustainable and equitable growth and prosperity of the Company. ■

## CROWN GROUP



Crown Group is one of the most prominent solutions group of companies in Pakistan since the last 15 years of its operations. The group specializes over aftermarket motorcycle, rickshaw, generator and car parts along with premium grade motor oil. No matter whichever motorcycle brand that exists in Pakistan, the aftermarket spare parts specialists recommend consumers to install FIT Genuine parts.

Owing to its enormous experience in spare parts solutions, Crown Group established its own plant of producing motorcycles ranging in 70cc, 100cc, 125cc and 150cc displacements equipped with premium FIT parts. Moreover, the group also established a tyre production plant catering a vast range of motorcycle displacements in the market. ■

## Dr. Essa Laboratory & Diagnostic Centre



Founded in 1987, Dr. Essa Laboratory & Diagnostic Centre is an ISO 9001:2008 QMS Certified Organization, known for its well-respected corporate and social image.

Our fourteen branches possess state-of-the-art technology and medical equipment which is used to provide our

clients with fast yet accurate results for clinical, pathological and radiological tests.

### VISION & STRATEGY

As a pioneering organization, our vision is to become a benchmark in diagnostics services.

### MISSION STATEMENT

Our mission is to continually provide the 'Gold Standard' medical & diagnostic services for the community with care, expertise and dedication.

We strive each day to work hard, to maintain our standards of excellence and reliability.

### Research & Development Department (R&D)

DR. ESSA HAS A STRONG R&D DEPARTMENT. It conducts tests on new antibiotics and drugs for pharmaceutical companies and runs clinical trials for interested parties. The Labs are research oriented which assists Doctors, M.Sc's, PhDs, MCPS, FCPS and Students for dissertations and presentation in symposia. The Lab has build up a reputation as a reference centre. ■

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## EFU General Insurance Limited



Today, with over 85 years of winning the customers' trust EFU stands as Pakistan's largest and the oldest general insurer, always ready to go the extra mile to serve better.

EFU has always provided a full range of insurance service to fulfill all of its customers' needs whether they are commercial or individual clients. It

provides Fire, Engineering,, Marine, Aviation, Motor, Miscellaneous services and Takaful Covers.

Ever since EFU's establishment in 1932, it has met the challenges of changing times. It has built a diversified customer base, covered more types of risks than any other, enhanced the expertise and delivered on the promises.

In the year 2017 EFU General Insurance Limited including its Takaful Operations have crossed the Premium/Contribution figure of Rs.20 billion. It is the first general insurance company in the history of Pakistan to achieve this milestone.

One of the important aspects of EFU's operation is that it has created a separate engineering group which works closely with clients to identify various risk exposures and then provide specific insurance coverage. This helps in loss prevention and reducing the cost of premium. EFU's market-driven team of inspired and technically qualified insurance personnel, specializing in civil, mechanical, metallurgy, electronics and having overseas linkages, is on-call for necessary professional advice at all times. It is EFU's policy not only to provide protection and risk reduction but help clients to develop preventive capabilities to avert major perils and calamities.

EFU General is rated by JCR-VIS, PACRA and AM Best. JCR-VIS, PACRA have assigned rating of AA+ with stable outlook and AM Best have assigned rating of B+ with Outlook Positive. EFU is ISO 9001:2015 certified company. Regarding the recognition of EFU's services to the industry and the economy of Pakistan, it has also received various awards including Corporate Excellence Award of Management Association of Pakistan, Best Corporate Report Award of Institute of Chartered Accountant of Pakistan (ICAP) and Institute of Cost and Management Accountants of Pakistan (ICMAP), Achievement Award & Gold Medal of the Federation of Pakistan Chamber of Commerce and Industry (FPCCI), SAFA Best Presented Annual Report (Certificate of Merit) of South Asian Federation of Accountants (An apex body of SAARC), Brands of the year Award of Brands Foundation, Consumers Choice Award of Consumers Association of Pakistan, and Top 25 Companies Award of Karachi Stock Exchange etc., etc.

EFU General is the most powerful trusted brand and pioneer in the insurance industry as well as in China-Pakistan Economic Corridor (CPEC). It has always played a role of institution giving the emerging Pakistan insurance industry the leadership, manpower and drive needed to grow and face challenges. ■

## Engro Fertilizers Limited



Engro Fertilizers is a subsidiary of Engro Corporation and a renowned name in Pakistan's fertilizer industry. It is traded on the stock market under the symbol 'EFERT'. Engro holds a vast, nationwide production and marketing infrastructure and produces leading fertilizer brands optimized for local cultivation needs and

demand. Engro is also a leading importer and seller of Phosphate products, which are marketed extensively across Pakistan as phosphatic fertilizers.

Our extensive market development activities have ensured a sustained pull for our primary and secondary fertilizer products and sellout productions since launch. Engro Fertilizers Limited enjoys loyal customer base across Pakistan owing to its trusted fertilizer brands and continual farmer assistance in training and education.

Engro Fertilizers Limited was incorporated in June 2009, following a decision to demerge fertilizer concern from its parent company Engro Chemical Pakistan Limited. The continual expansions and diversifications in its enterprises necessitated a broad restructuring in Engro Chemical operations and management. To facilitate better oversight, Engro Chemical Pakistan was converted into a holding company named Engro Corporation, and its fertilizer business was subsequently demerged to a newly formed Engro subsidiary -Engro Fertilizers Limited.

Engro's fertilizer manufacturing facility at Daharki has been experiencing ongoing expansion. This, coupled with distinct dynamics of highly nuanced fertilizer industry warranted an independent and dedicated business entity and approach.

Engro Fertilizers is poised to become the leading urea manufacturer in the country following major upgrading of its manufacturing capabilities. ENVEN 1.3-a tremendous expansion in Engro's urea manufacturing facility went into production in November 2010 and looks set to end Pakistan's near-term urea imports, leading to benefits of an expanded local urea base and savings in national exchequer.

Engro is a dynamic company driven by a vision to improve productivity and lifestyle for thousands of farmers across Pakistan. Engro Fertilizers Limited has earned itself a distinguished name by continually striving to uphold its tradition and trust of its loyal consumer base. ■

## Fatima Fert Limited Plant Site Shaikhupura



Fatimafert Limited markets urea under the brand Bubber Sher®. Bubber Sher® has consistently delivered quality and value for more than 40 years and continues to enjoy a high brand share of preference in the markets Fatimafert Limited serves.

### Health, Safety and Environment

We are dedicated for continuous improvement in HSE practices through effective communication, motivation, team work and training.

Fatimafert Limited places a high value on becoming a world-class urea manufacturer in terms of safety of its operations. In order to meet this desire, Fatimafert Limited (formerly DH Fertilizers Limited) is currently aligning itself with the DuPont process safety management. The DuPont process safety management systems are designed to bring about a cultural transformation within the company to achieve excellence in process safety.

### Certificates:

The first fertilizer manufacturing company to obtain ISO-9001:2000 certification in Pakistan.

" OHSAS 18001:2007 Safety Management System Certified by TUV Austria

" ISO 14001:2004 Environment Management System Certified by TUV Austria

" ISO 9001:2008 Quality Management System Certified by TUV Austria

### Environmental Management

All necessary treatment facilities for pollution abatement are installed at Fatimafert Limited's Urea plant. The facilities are able to safely process liquid effluents, gaseous emissions and solid waste. All parameters are controlled as per specified limits set by National Environment Quality Standards (NEQS).

Fatimafert Limited is the first industrial organization to voluntarily monitor and report the compliance with NEQS to Environment Protection Agency (EPA) through the "SMART Tool". SMART is an IT based, self-monitoring and reporting tool, which provides information in a format that conforms to standards required by the EPA. ■



REDUCE



REUSE



RECYCLE



RETHINK!

## Fast Cables Limited



Since its inception in 1985, Fast Cables Limited has emerged as Pakistan's leading and most trusted electrical cable manufacturer. At Fast Cables quality is our first priority combined with superior customer service and affordability. Our emphasis on quality has made Fast Cables one of the most reliable brands in the Cable

Industry of Pakistan and the choice of leading electrical consultants, engineers and architects in the country. Our manufacturing plant in Lahore is equipped with state of the art technology along with an excellent quality assurance system. In addition to our current product portfolio, we also manufacture electrical cables and conductors to cater to the specific needs of our valued customers. We have served the cables needs of our customers from diverse sectors including Building & Infrastructure, Oil & Gas, Telecommunication and many others.

### Vision

To become the market leader in the Cable and Conductor Industry by offering quality products.

### Mission

To provide quality products to our valued customers in the Cable and Conductor Industry in a cost effective manner without compromising safety standards. ■



Become Member to Promote  
**CSR Activities**

For Details:

Ruqiya Naeem & Engr. Nadeem Ashraf  
Cell: 0304-3098328, 0333-3441295  
Tel: 021-35674570  
www.nfeh.org.pk

## Fatima Fertilizer Company Limited



The fertilizer complex is a fully integrated facility, capable of producing intermediate and final products.

The Fatima Fertilizer Company Limited was incorporated on December 24, 2003, as a joint venture between two major business groups in Pakistan namely, Fatima Group and Arif Habib Group.

The fertilizer complex is a fully integrated production facility, capable of producing two intermediate products, i.e., Ammonia and Nitric Acid and four final products which are Urea, Calcium Ammonium Nitrate (CAN), Nitro Phosphate (NP) and Nitrogen Phosphorous Potassium (NPK) at Sadiqabad, Rahim Yar Khan.

The Complex has a 56MW captive power plant in addition to off-sites and utilities. The Complex has been allocated 110 MMCFD of gas from the dedicated Mari Gas fields.

Its foundation stone was laid on April 26, 2006 by the then Prime Minister of Pakistan. The construction of the Complex commenced in March 2007 and is housed on 950 acres of land. The Complex, when completed, is designed to produce:

- 500,000 Metric Tons of Urea per Annum
- 420,000 Metric Tons of Calcium Ammonium Nitrate (CAN) per Annum
- 360,000 Metric Tons of Nitro Phosphate (NP) per Annum

The Complex, during its construction phase engaged over 4,000 engineers and technicians from Pakistan, China, USA, Japan and Europe.

The Complex provides modern housing for its employees with all necessary facilities. This includes a school for children of employees and the local community, a medical centre and sports facilities.

### Vision and Mission

Our vision and mission reinforces our position as a driving force in the agricultural sector.

To be a world class manufacturer of fertilizer and ancillary products, with a focus on safety, quality and positive contribution to national economic growth and development. We will care for the environment and the communities we work in while continuing to create shareholders' value.

- To be the preferred fertilizer company for farmers, business associates and suppliers by providing quality products and services.

- To provide employees with an exciting, enabling and supportive environment to excel in, be innovative, entrepreneurial in an ethical and safe working place based on meritocracy and equal opportunity.

- To be a responsible corporate citizen with a concern for the environment and the communities we deal with. ■

## GSK Consumer Healthcare Pakistan



Our Consumer Healthcare business develops and markets consumer preferred and expert recommended brands in the Oral health, Pain relief, Respiratory, Nutrition/gastro-intestinal and Skin health categories.

We are one of the world's leading over-the-counter healthcare companies. We hold number one positions in Wellness across 36 markets, and are market leaders in specialist oral care.

We have a portfolio of loved and trusted brands that are underpinned by science including: Sensodyne, Parodontax, Poligrip, Voltaren, Panadol, Otrivin and Theraflu.

The business generated sales of £7.8 billion in 2017, representing 26% of the total turnover of the Group.

### Our marketplace

Today, people are taking an increasingly active role in managing their own health. This is being fuelled by an emerging global middle class, rising healthcare costs and ageing populations. Demand for consumer healthcare products is growing, particularly in emerging markets where consumers are seeking more affordable and accessible products.

Consumer healthcare products are dependent on brand loyalty and trademark protection. Some of our heritage brands such as Horlicks and ENO are more than 140 years old but continue to be popular today.

### Our strategy

Our strategy is to meet the everyday healthcare needs of our consumers through building consumer preferred and expert recommended brands.

To do this we focus on excellence in innovation to develop world class brands, and on building our reputation through best in class interactions with retailers, healthcare professionals and shoppers.

### Research for product innovation

Our business is built on science and this research heritage contributes to the development of our Consumer Healthcare products, giving us a unique advantage over our competition.

Today, we are using science to speed up the time to develop new product innovations, make them more accessible to the people who need them, and to develop benefits our consumers value, ultimately growing our business.

At the same time, we continue to ensure we meet all regulatory requirements for testing, approval, manufacturing, labelling and marketing of our products. ■

## Huaneng Shandong Ruyi Pakistan Energy Pvt Limited



China Huaneng Group (CHNG) is a key state-owned company established with the approval of the State Council of the People's Republic of China, a state-authorized investment institution and a pilot state-holding company. It is an integrated energy group, with its installed capacity ranking first in the world and

its business involving electric power, coal, finance, technology and transportation industries. CHNG is the first company to have reached the total installed capacity of 100GW in China and has a total wholly-owned installed capacity of 160GW domestically and overseas. The installed capacity and power generation accounts for 12% in China. The overseas units are located in Australia, Singapore, Myanmar, United Kingdom, Netherlands, Mexico and Philippines distributed in four continents. The coal production capacity reaches 68.17 million tons/year, with total assets of 751.3 billion RMB yuan and more than 140,000 employees. CHNG was the first Chinese power producer to join the ranks of Global Fortune 500 Companies, ranking 217th in 2016. CHNG has achieved excellent operating results and made important contributions to the national energy security and the stable and rapid economic development, with its overall strength leading in the domestic power industry. As of the end of 2015, The consolidated operating income reached more than 300 billion RMB Yuan, the controllable installed capacity exceeds 160GW, the low-carbon clean energy consumption accounts for more than 25%, the controllable coal production capacity exceeds 100 million tons/year with more than 25% for CHNG's power generation consumption, and the overseas holding capacity accounts for more than 5%. Corporate Mission o A red company fulfilling the need of loyalty and harmony o A green company advocating Technological innovation and environmental protection o A blue company advancing forward via continuous innovation and internationalization o Corporate Work Style o Pioneering, Efficient, Trustworthy, Frugal o Strategic Objective Huaneng is committed to building itself into a large enterprise group with international competitiveness featuring Solid capacity, world-class management, serving the nation and embracing the world. o Strategic Orientation An integrated energy group with international competitiveness that takes power generation as the core business, coal development as the foundation, finance as the supporting business, technology as the driving force, while synergizing various industries. ■

## Habib Oil Mills (Pvt.) Limited



HOM has been delivering premium products to its customers for over 60 years. HOM's presence dates back to 1955, when it was initially established as an oil expelling unit. The present management took over the unit in 1978 when the company was producing only 5000 metric tons of cooking oil annually.

HOM products enjoy vast popularity and brand loyalty, and stands amongst the top five in terms of market share in this sector nationwide. The growth rate of 500% in past ten years primarily attributes to our consistent quality care, concerted efforts of its staff and driving successes from application of needed marketing strategies and state of the art technologies.

HOM takes pride in having installed the latest and most modern European plant in Pakistan for Edible Oil processing. The capacity of the plant is 500 Metric Tons per day. During entire refining process, there is no physical contact of any operator with Oil and the whole system is carried out in closed circuit.

HOM has achieved phenomenal success in the past several years and we aspire to reach new heights in the future with our vision, superior quality and diversified portfolio. ■

## Haleeb Foods Limited



Haleeb Foods Limited (HFL) is Pakistan's leading Food and Beverage Company with foremost focus on hygiene, nutrition, health and well being of its consumers. We are one of the pioneers of the dairy sector in Pakistan and have contributed substantially to the continuous growth of this sector.

We are committed to providing good food in a responsible way through robust animal care, employee safety, environmental, and food safety and quality check programs. Established in 1984, Haleeb Foods operates two state-of-the-art dairy processing plants in Bhai Pheru and Rahim Yar Khan and has a milk collection network of over 170 collection points. We drive sustainable business practices for a better and healthier tomorrow.

Our portfolio, which includes many of Pakistan's favorite brands, comprises of a diverse range of delicious and quality products ranging from milk to juices and pure ghee. Our production processes are certified in accordance with stringent quality standards such as ISO 9001: 2008 Quality Management system, ISO 22000:2005 Food Safety Management system, ISO 14001 Environment Management system, Halal Foods Management System and Pakistan Standards Quality Control Authority (PSQCA) licensing (Product certified). ■

## Indus Motor Company Limited

Established in 1989, the Indus Motor Company (IMC) is a joint venture company between certain House of Habib companies, Pakistan, Toyota Motor Corporation and Toyota Tsusho Corporation of Japan. As a symbol of comfort and reliability - the Indus Motor Company and Toyota brand embody the spirit of Mobility for all.

The manufacturing facility and offices are located at a 105 acre of land in Port Qasim, Karachi, while the products is delivered to end customers nationwide through a strong network of 46 independent 3S Dealerships spread across country. Our customers include organizations, government departments, security agencies and private buyers.

The product portfolio caters to a vast variety of everyday automotive needs. The flagship Corolla - available in a number of variants in the passenger car category, the rugged Hilux and Vigo Champ brands also feature multiple options to choose from.



The Iconic SUV Fortuner has recently sold a record number of units and the Company also introduced the Toyota Rush in August of 2018.

markets genuine parts, motor oils and offers maintenance services through a network of dealers spread across the country.

There is great demand for locally assembled vehicles, yet imported brands such as the luxury sedan Camry - now available in hybrid as well, the majestic SUV Land Cruiser, passenger van Hiace and the legendary Hybrid Prius are also extremely popular with Pakistani drivers.

In June 2018, IMC increased its production capacity from 240 units/day to 270 units/day, consequently steering the ambitions of over 75,000 drivers a year.

As Indus Motor Company celebrates 30 years of automotive excellence, our commitment to deliver an unparalleled driving experience still leads the way. ■

## Kot Addu Power Company Limited



KAPCO is Pakistan's largest Independent Power Producer (IPP) having a name plate capacity of 1600 MW. Kot Addu Power Plant was built in five phases between 1985 and 1996 in Kot Addu, Punjab, Pakistan, by the Pakistan Water and Power Development Authority (WAPDA). Kot Addu Power Company Limited (KAPCO) was incorporated as a public limited company in April

1996, under the Companies Ordinance, 1984 with the objective of acquiring the Power Plant from WAPDA. The principal activities of KAPCO include the ownership, operation and maintenance of the Power Plant.

Following the successful completion of the Offer for Sale by the Privatization Commission (on behalf of WAPDA) in February 2005, 18% of KAPCO's shareholding is now held by the General Public.

On April 18, 2005 KAPCO was formally listed on all three Stock Exchanges of Pakistan.

The Power Plant comprises of 10 multi fuel fired gas turbines and 5 steam turbines. The Power Plant is divided into three energy Blocks. Its combined cycle technology enables KAPCO to use the waste heat from the gas turbine exhaust to produce steam in the Heat Recovery Steam Generator, which is then used to run the steam turbines, resulting in fuel cost efficiency and minimum wastage.

The Power Plant is a multi-fuel gas-turbine power plant with the capability of using three different fuels to generate electricity, i.e. Natural Gas, Low Sulphur Furnace Oil and High Speed Diesel. The Power Plant is also the only major plant in Pakistan with the ability to self-start in case of a country wide blackout.

KAPCO is the first company in Pakistan to be awarded three simultaneously accreditations under the title of the Integrated Management System. For its achievements in areas of quality, environment and safety, KAPCO was awarded the relevant certifications in July 2004. The current certifications held by KAPCO are ISO 9001 - 2008 Quality Management System; ISO 14001 - 2004, Environment Management; and OHSAS 18001 - 2007 Occupational Health & Safety Management.

KAPCO as a responsible Corporate Citizen not only generates electricity, but is also dedicated to improve the well-being of the community it operates in. Since its inception in June 1996, KAPCO has initiated a comprehensive Social Action Program with special emphasis on basic health and education facilities in order to improve the quality of life of the local people. In Health sector provision of health care equipment, infrastructure improvements in local Government hospital, conducting of annual free medical/Eye camps, free vaccination etc. In Education sector provision of infrastructure facilities like construction of classrooms, staff rooms, wash rooms and all required school furniture etc. In General welfare improvement of infrastructure facilities like construction of waiting sheds, electric water coolers, benches at public places, tree plantation etc. in this area a major project Fire & Rescue station Kot Addu is completed, which includes provision of all infrastructure and fire equipment's and Fire Tender. ■

## KSB Pumps Company Limited



Technology that makes its mark Two symbols, three letters: pumps, valves and KSB are all closely connected - thematically and visually. Wherever there are fluids to be transported, controlled or shut off, customers globally rely on our expertise and products. The KSB brand promises them competent advice, excellent quality and top reliability along

with guaranteed after sales service that they can count on, worldwide. "KSB Group" finds its origin in Frankenthal, Germany and is a leading international supplier of pumps, valves and related systems for industrial applications, building services, process engineering, energy conversion, water treatment, water transport, solids transportation and other related applications. KSB combines innovative technology and excellent service to provide intelligent solutions. This approach means that KSB is close to its customers, providing them with pumps, valves and systems for almost all applications involving the transportation of liquids. A comprehensive range of services rounds off this customer-focused portfolio. KSB Group has been growing continuously since its foundation in 1871, and today operates in more than 100 countries of the world with its own sales & marketing companies, manufacturing facilities and after sales service operations. KSB established its first subsidiary in Asia in July 1959 in Lahore - Pakistan while built its first factory in Hassanabdal in 1964. After becoming a Public Limited Company in 1979, KSB received its first ISO Certification in 1997, and moved on to become the First Foundry based Engineering Company in Pakistan that was QHSE Certified for ISO 9001, ISO 14001 & ISO 18001 Certifications for complete Integrated Management System Certification by TUV, Germany. Continuing its commitment to quality and excellence in 2009, KSB Pumps Company Limited successfully completed its 50 years of operations in Pakistan. A range of global certifications of the company's products and locations are a proof of its work in all areas that are in compliance with the latest quality standards. KSB Pakistan manufacturing facility located at Hassanabdal is spread over a total area of 89.070 m<sup>2</sup> with a covered area of 4000 m<sup>2</sup>. ■



# 16<sup>th</sup> Annual Environment Excellence Awards 2019

## K-Electric (KE)



K-Electric (KE) has powered Karachi for over one hundred years. Through a network spanning across 6,500 square kilometres, KE supplies power to all residential, commercial, industrial and agricultural areas that fall under the city's ambit and beyond, serving over 2.5 million customers across Karachi, Dhabeji and Ghara in Sindh, and Uthal, Vinder and

Bela in Balochistan.

KE is the only vertically-integrated power utility in Pakistan, which means the organisation manages all three key areas - Generation, Transmission and Distribution - of producing and delivering energy to consumers.

Formerly known as Karachi Electric Supply Company Limited, the power utility is an integral part of one of the world's most populous cities. In 2009, KES Power Limited, the majority shareholder of KE, put into place a turnaround strategy which has seen investments of over USD 2.1 billion. This has resulted in 1,057 MW being added to the company's Generation capacity and Transmission & Distribution capacity has been increased by approximately 29% and 60% respectively, followed by a 15.5% point reduction in Transmission & Distribution losses. K-Electric's transformation is a globally recognised success story of business excellence.

As a power utility, KE recognises the importance of environmental safety. As part of its commitment to ensure best practices in this regard, K-Electric's flagship 560 MW, Bin Qasim Power Station-II (BQPS-II) is the first-ever Pakistani power plant to be declared a WWF-Green Office for its Environmental Management System which prioritises energy efficiency, focuses on waste reduction across the entire value chain and ensures an environmentally-friendly workplace.

The power utility is recognized as one of the industry leaders in energy management best practices and this certification is yet another testament to KE's longstanding commitment to sustainability through resource and energy conservation. The BQPS-II power plant also holds the unique distinction of being Pakistan's first and only ISO 50001 certified power plant for its Energy Management System which improves energy productivity and cuts CO2 emissions. ■



## Liberty Mills Limited



The Group heritage starts from M/s Noor Mohammad Haji Mohammad & Sons, established by grandfather of Mr. Ashraf Mukaty in 1908 in the subcontinent with the Head Office in Bombay and branches in Karachi, Calcutta, Chennai, Rangoon. After migration in 1947, the Head Office of the Group shifted to Karachi, Pakistan. The group mainly dealt

in Textiles, Dyes & Chemicals, and Real Estate related businesses.

Liberty Mills Limited ("LML"), established in the year 1965 by Mr. Salim N. Mukaty, enjoys a leading position in textile sector of Pakistan for more than five decades. LML is now one of the largest manufacturers and exporters of textile goods in the country having a state of the art processing unit producing 66 million meters fabric annually. Its substantial foreign remittance through its export business has been greatly contributing to the national exchequer. Located in the industrial heart of Karachi, it is today one of the largest textile processing unit in Pakistan with a production capacity of 7.5 million meters of fabric per month. The entire production is exported directly and indirectly to customers which include vendors of internationally recognized brands and departmental stores. ■

## Lucky Cement Limited



Founded in 1993, Lucky Cement Limited stands as the flagship company of YBG. Lucky Cement is one of the largest producers and leading exporters of quality cement in Pakistan and is listed on the Pakistan Stock Exchange (PSX). The Company has also issued Global Depository Receipts (GDRs), listed and traded on the Professional Securities

Market of the London Stock Exchange.

Over the years, the Company has grown substantially and is expanding its business operations with production facilities at strategic locations in Karachi to cater to the Southern regions and Pezu, Khyber Pakhtunkhwa to furnish the Northern areas of the country. Lucky Cement is Pakistan's first company to export sizeable quantities of loose cement, being the only cement manufacturer to have its own export terminal at Karachi Port. Lucky Cement strives to remain an efficient and low cost producer and is one of the pioneers of Waste Heat Recovery (WHR), Refuse Derived Fuel (RDF) and Tyre Derived Fuel (TDF) technology in Pakistan. We also have self-sufficient captive power generation facility of 180 MW and also supply additionally generated electricity to support the national grid. Lucky Cement owns a fleet of bulkers and trailers, which gives added advantage in terms of logistics and efficient deliveries to all types of customers spread across the length and breadth of the country. ■



## Lotte Chemical Pakistan Limited



Lotte Chemical Pakistan Limited (LCPL) is the only world-class manufacturer and supplier of Purified Terephthalic Acid (PTA) in Pakistan. The Company has the capacity to produce 500,000 tonnes of PTA per year through its state-of-the-art plant located at Port Qasim, Karachi.

### Our Mission

To be supplier of choice to PTA customers in Pakistan and to maximize long-term business value.

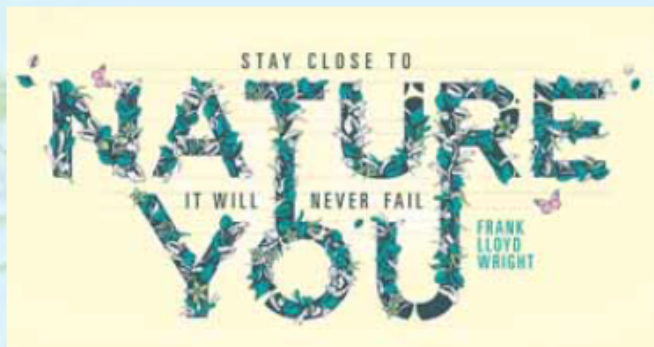
### Our Vision

The Spirit to Make a Difference through Value, Quality and Excellence

At Lotte Chemical Pakistan Limited, our customer's satisfaction is the driving force behind our spirit to meet challenges and achieve excellence in everything we do. We maximise operating efficiencies and demonstrate best practices in Safety, Health and Environment that add value to our quality product and make a difference in letter and in spirit.

### Quality Policy Statement

Lotte Chemical Pakistan Limited operates in an environment which is influenced by global trends. To remain competitive and retain its status as a preferred PTA supplier, it has to produce a world-class product that always meets the expectations of its customers, both local and overseas, in terms of price, product, quality and service. The Company achieves the above mentioned objectives by delivering a quality service on the principle of "right first time every time". To support the Quality Policy, the Company ensures ownership at all levels to continually improve the Quality System consistent with the latest standards and provides necessary training & resource to deliver added value to the business. ■



## Lucky Textile Mills Limited



Lucky Textile Mills Limited was first established in 1983 and has since remained one of the leading textile manufacturers in the country to-date. With an indelible commitment to employing the most modern technology and providing outstanding working conditions for all our staff, we have always believed in creating the best value

for any entity that invests its time with us. For over 30 years, our continued focal point has remained on our esteemed customers and their satisfaction, which we always strive to guarantee.

With 3 state-of-the-art weaving mills that house 750 Sulzer Shuttle-less looms which are equipped with computerized back process comprising of Karl Mayer warping and sizing machines. This high-tech mechanism is installed to cater to the international market and has a capacity to process 250,000 meters per day and over 83 million meters / annum processing capacity. Also, our factories facilitate over 6.20 MW of power generation that provides a self sufficient energy source. We maintain that every aspect of our operations is inclined towards adding to a progressive future and firmly believe that by stringently pursuing our core values of Leadership, Understanding, Commitment, Knowledge and Yielding, we will undoubtedly grow to be one of the most successful industry leaders in the country.

### MISSION & VISION

To be the leaders in the textile industry whilst providing a socially responsible commitment to the environment we invest in. Provide superior quality and assurance to all our customers and stakeholders by employing techniques that serve both our internal and external environment with respect and integrity.

### ENVIRONMENT PROTECTION COMMITMENT

We have committed to protect our surrounding environment and the mother earth from any kind of harm or pollution by introducing pollution free environment friendly technologies, comply with legal obligations from Environment protection agencies, promote Reduce, Reuse, Recycle culture, achieving sustainability initiatives, treatment of all the hazardous waste either in the form of water, solid or gas.

### SAFETY & HEALTH COMMITMENT

Lucky Textile Mills have committed to provide all the resources to its employees in order to save and protect their lives from any injury, accident or ill health. Prevent the factory premises from any type of danger occurrence, provide all welfare facilities, and create a health and safety culture in the organization. ■

## Martin Dow Marker Limited



"The history of Martin Dow Marker Ltd., formerly Merck (Pvt.) Ltd., began in 1962 with a small sales promotion office in Karachi called "Emedia Export Company", for the distribution of pharmaceutical and chemical products. Over the years, numerous investments and acquisitions followed. Martin Dow

Marker's compound annual growth for the past five years was 12.9% in Pharmaceuticals and 24.6% in Life Science

Merck Pakistan became part of Martin Dow Group during December 2016 and was renamed Martin Dow Marker, with over 1200 employees and more than 50 brands in the Healthcare division.

Around 125 employees manage the business from the company Head Office in Karachi. The company markets drugs for the therapeutic areas; diabetes and cardiology, vitamins, analgesics, antibiotics etc. We are a leader in many therapeutic areas, with more than 700 sales force members for both pharmaceuticals and Life Science businesses, we are active throughout the country.

We believe there are no generic solutions. Our brand gained recognition through its association with quality, but equally important is its emphasis on identification and innovative marketing strategies. This is the approach that has long made us distinctive and inspirational.

Martin Dow Marker is the only authorized distributor of Merck KGaA in Pakistan. We deal in the vast products and services of Merck group (EMD Millipore, Merck Millipore, Sigma) which offers products, Applications and Solutions to Pharmaceuticals, Food & Beverages, Academia & Research, Clinical Labs/Hospitals, Chemical Industry, Textile/Tanning Industry etc.

In Diagnostic Business, we represent renowned hematology company Boule (Sweden) and clinical chemistry company ELITech (France). Martin Dow Marker's Life Science segment comprises of three Business Portfolios:

- 1) Chemicals
- 2) Diagnostics
- 3) Performance Material<sup>TM</sup>



## Martin Dow Limited



Founded in 1995, Martin Dow is one of the largest healthcare groups in Pakistan, a status achieved through rigorous efforts of its management and employees.

Martin Dow markets over 60 brands with more than 1000 employees countrywide. It markets research-based products and world-class branded generics which are developed, formulated and manufactured at its cGMP compliant manufacturing facility located in Karachi.

### MISSION & VISION

- To be one of the most admired pharmaceutical companies in Pakistan
- To be amongst the fastest growing healthcare companies

Martin Dow is a Corporate Force that is positioned to create long term value for the society and its stakeholders.

### VALUES

- To treat every employee with dignity & respect and create a culture of continuous learning & growth
- To develop a long term & transparent relationship with our business associates by entering into value added ventures which are mutually beneficial
- To share the benefits of our success with the communities and be socially responsible
- To nurture talent & enhance teamwork

### SAFETY, HEALTH & ENVIRONMENT

Martin Dow Limited is an ISO 14001 and OHSAS 18001 certified globally emerging pharmaceutical company where Safety, Health & Environment (SHE) plays an integral part.

We consider our employees essential assets of the company and hence, focus on continuously developing and sustaining a safe and healthy environment for Martin Dow family by ensuring employee involvement, creating awareness and commitment to conduct its operations in an environmentally responsible manner.

We focus on designing, constructing and operating facilities in a manner which ensures workplace safety and health to seek continual improvement in environmental aspects. Our manufacturing site is fully equipped with facilities to handle waste and minimize environmental pollution. At Martin Dow, we pay close attention to preventing and reducing pollution, avoiding accidents and conserving resources.

We are allies of growth & healthy living. For us, sustainable development represents a long-term commitment to the needs of current & future generations.■

## MAL Pakistan Limited



MAL Pakistan Ltd (formerly Mobil Askari Lubricants Ltd) was registered in Pakistan under the Companies Ordinance in December 29, 1996.

The Company was a joint venture of ExxonMobil Corporation. In September, 2007, under ExxonMobil Corporation's Global Distribution Framework Model,

the stakeholders of the Company changed the Company's name to MAL Pakistan Ltd. and subsequent to that the Army Welfare Trust took over the ownership of the Company.

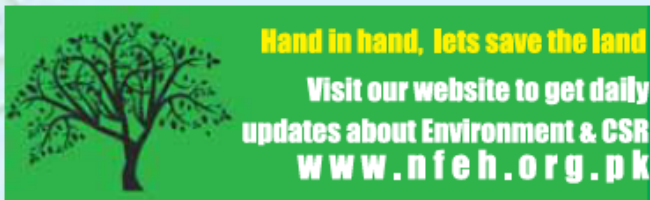
ExxonMobil Corporation, is the largest Oil Company in the world, operating in over 200 countries. ExxonMobil is a leader in almost every aspect of the worldwide petroleum and petrochemical business. The Army Welfare Trust, established in 1972, has wide ranging investments in banking, leasing, insurance, cement, sugar, pharmaceutical business and real estates.

MAL Pakistan Ltd continues business as usual and is the exclusive marketer of Mobil branded lubricants and coolants developed by Mobil for its global accounts in Pakistan under stewardship of ExxonMobil Asia Pacific region.

For over a century Mobil has been an innovator in lubrication technology and has manufactured breakthrough lubricants for automotive, commercial and industrial sectors. These world-renowned Mobil branded products, were launched in the country in September 1997. The Company is the sole authorized importer and distributor of Mobil and Esso branded flagship and synthetic products in Pakistan.

The Company's Corporate Office is located in Karachi, with a Regional Office in Lahore and Islamabad. The Company's Lube Oil Blending Plant, situated in Hub Baluchistan, is a state-of-the-art Plant as per ExxonMobil's global standard.

In Pakistan, the Company continuously strives to achieve superior financial and operating results, while adhering to the highest standards of business conduct. MAL Pakistan Ltd's development & employment of local resources / talent, and its extensive operational, technical, marketing guidance and training express the Company's commitment to Pakistan. ■



## Mughal Iron & Steel Industries Limited



### HOW IT ALL BEGAN:

The forefathers of the current sponsors ventured in to the steel business in 1950 under the title of "Mughal Traders". The entity then imported Iron and steel products for local consumption.

### WHO WE ARE:

With a history of over 50 years of excellence to its credit, Mughal Iron & Steel Industries Limited ("MISIL") is one of the leading companies of Pakistan in the iron and steel sector. The company was incepted in the early 1950 in the form of a proprietorship firm with a purpose to uplift trade, contribute to national economy and ensure industrial growth of the country. In the turmoil that surrounded the newly independent country, the sponsors came up with a strong vision and devoted entirely to trade and industry, their dedication is truly appreciated by their commendable clientele

### OUR BUSINESS ACTIVITIES:

The Company is involved in multidimensional activities from making billets of Mild Steel, Spring Steel, Deformed bar, Rebar, Cold Twisted Rebar and a huge range of Sections such as I.Beams, L.Sections, C.Section, H.Beam, T.Bar etc. in the downstream industry.

Over the years Mughal Steel has emerged as a thriving progressive steel enterprise due to its ability to transform itself rapidly to meet the challenges of a highly competitive global economy. Constant modernization, introduction of state-of-the-art technology and being manned by the highly efficient and dynamic team of employees, has enabled the Company to stay ahead in the industry and successfully meet the expectations of all customers. ■



## Mondelez International Pakistan



Mondelez International is an American multinational confectionery, food, and Beverage Company which employs approximately 83,000 individuals around the world. It consists of the global snack and food brands of Kraft Foods Inc. The company operates 165 countries around the world.

Mondelez international is the largest chocolatier, biscuit baker and candy maker and second largest in maker of gum.

Before the October 2012 it was operating as Kraft Foods, Mondelez international portfolio include several billion dollars brands such as Oreo, chips Ahoy, Belvita, Triscuit, LU, Nabisco, club social, Barni, and Milka, Terry's, Cote d'Or

Our most familiar product in Pakistan in chocolate Cadbury daily Milk, éclair and softmint in candy and Tang for (powder beverages). ■

## Mustaqim Dyeing & Printing Industries



Mustaqim Dyeing & Printing belongs to well-known group Gani & Tayub (Pvt.) Ltd. which was established in 1947. Group's turnover is around US\$ 700 million. Mustaqim is a Home textile manufacturing company established in 1994. Annual Turnover: US\$ 80 Million (Approx.) Market: USA and European

Countries.

### Vision & Mission

- To be the Number One Preferred Supplier of Home textile in Pakistan by virtue of our high quality, cost effective, socially compliant and environmentally responsible products matched with excellent personalized services through our sincere commitment towards achieving maximum customer satisfaction.

- To provide a quality product at a fair price to
- Our customers, matching expectations, on time
- Every time. ■

## National Refinery Limited



### Vision:

Our passion is to attain distinctive leadership amongst the corporate success stories of tomorrow. We at NRL recognize that realization of this passion needs superior professional competencies, continuous value addition and improvising, development of human

capital and complete commitment to safety, occupational health and environment.

### Mission

- To remain the premium and preferred supply source for various petroleum products and petrochemicals.
- Offer products that are not only viable in terms of desirability and price but most importantly give value to our customers.
- Deliver strong returns on existing and projected investments of our stakeholders by use of specialized and high quality corporate capabilities.
- Business development by adoption of emerging technologies, growth in professional competence, support to innovation, enrichment of human resource and performance recognition.
- Be a responsible corporate citizen by serving the community through a variety of socio-economic acts and maintaining a high level of safety, occupational health and environmental care.

### Corporate Objectives & Development Strategy:

National Refinery Limited is a petroleum refining and petrochemical complex engaged in manufacturing and supplying a wide range of fuel products, lubes, BTX, asphalts and specialty products for domestic consumption and export.

NRL objectives and development strategy are aimed at achieving sustainable productivity and profitability and high standards of safety, occupational health and environmental care. This entails human resource re-engineering & development, enhancing value addition, implementing conservation measures and continuing growth through up gradation of existing as well as addition of new facilities. In the changing global environment, corporate objectives and development strategy have been defined to meet the challenges of 21st Century. ■

## Oil & Gas Development Company Limited



OGDCL's under a forward-looking management foresees the organization as not only the leading E&P Company of the country, but also as a company known for its people, partnerships and performance in the region. The Company continued with its strategies of accelerating oil and gas exploration, adding to its reserves, early development of newly

discovered fields and strengthening of its oil and gas production base in order to enhance indigenous production of the country and create value for its shareholders

### HEALTH, SAFETY, ENVIRONMENT AND QUALITY (HSEQ)

1. As a responsible Corporate Citizen, OGDCL attaches greater significance to HSE system with a view to promoting a culture and attitude of compliance for the safety & wellbeing of our manpower, community and the environment. We resolutely believe that responsibility for health, safety, and environment cannot be delegated, it is a shared responsibility across the company.

2. We believe in good HSE performance that can ultimately contribute to business success. By supplying energy, we fundamentally support economic development and help to improve quality of life of people. Our activities also generate jobs, investment, infrastructure and revenues for governments and local communities. In carrying out all our activities, hence we ensure welfare of the indigenous communities, protection of ecosystems and safety of our workforce.

3. As we continue our exploration and production activities basing our growth on a sound foundation of technical and financial prudence, we are supporting health, safety, and environment initiatives.

4. OGDCL strives to be good Corporate Citizen in every community in which we operate. Through observance and encouragement of this policy, we aim to assist in protecting the environment and the overall wellbeing of our stakeholders, specifically, our employees, clients, shareholders, subcontractors, and communities.

5. OGDCL recognizing that effective system of risk management can lead to business success has recently promulgated its Risk Management policy and a comprehensive program was launched for training and awareness of the employees towards effective risk management. OGDCL have conducted risk management exercises at all fields and major risks have been identified. OGDCL top 10 Corporate Risks have been presented to the Board of Directors and are being controlled/managed as per directions of the Risk Management Committee of the Board.

6. OGDCL won Fire and Safety Award 2016 organized by National Forum for Environment and Health for its effective arrangements for fire prevention. ■

## Pak-Arab Refinery Ltd.



### ENERGY LIFELINE FOR THE NATION

PAK- ARAB REFINERY LTD (PARCO) is a Joint Venture of 60-40 between the Government of Pakistan and the Emirate of Abu Dhabi, incorporated as a public limited company in 1974. As an integrated energy company, PARCO is the leading

player in Pakistan's petroleum industry with major operations in refining, transportation, storage, marketing, oil supply and logistics.

PARCO has the most modern refinery in Pakistan having a capacity of 100,000 BPD (representing about 25% of the country's refining capacity), over 2000 kms of cross country pipeline network including its JV subsidiary Pak-Arab Pipeline Company Limited (PAPCO) with a strategic storage of over one million tons, and a rapidly expanding retail network of TOTAL PARCO (TPPL) - a joint venture with TOTAL of France. With the acquisition of Chevron's fuel business in Pakistan, TPPL is now the second largest Oil Marketing Company in the country. PARCO has its own nationwide LPG distribution and marketing network. The product is marketed nationally under brand name of Pearl Gas. High quality asphalt is also being marketed as Biturox.

PARCO's performance is reflected not only in its technical and financial results, but can also be judged by its other achievements and awards. Company has maintained its AAA and A1+ long and short term credit rating by Pakistan Credit Rating Agency (PACRA) for the twentieth year running. The company is amongst the first in Pakistan with three simultaneous international certifications: ISO 9001:2015 (Quality Management System), ISO 14001:2015 (Environmental Management System) and ISO 45001:2018 (Health & Safety Management System). PARCO has also received Environment Excellence Awards for the last several years and is rated among the top 10 organizations in Pakistan for outstanding achievement in Environment Management.

With continued support of the Emirate of Abu Dhabi and Government of Pakistan, PARCO over the years has been able to implement a number of energy projects that have contributed significantly in enhancing the country's economic growth, saving foreign exchange, transferring technology and providing employment. From producing environment friendly products to efficient, world class facilities and infrastructure, building a competent team, and major social initiatives, PARCO is doing its utmost in providing energy with responsibility. ■

## Pakistan Accumulators (Pvt.) Ltd.



Pakistan Accumulators (Pvt.) Ltd. (PAL) is an ISO 9001 & ISO 14001 certified company that focuses in various battery types under brands "VOLTA" & "OSAKA" for more than 20 years. At first, batteries were manufactured under Technical support of Chloride Industrial Batteries.

### Core Values

- Integrity & Credibility
- Honesty & Accountability
- Sense of Ownership
- Motivation & Team Work
- Speak from the Heart
- Innovative Thinking
- Environment Friendly

### Our Vision

- A customer trust winning company believes in quality products through continuous Research & Development ensuring sustainable returns to stakeholders.■

## Pfizer Pakistan Ltd.



Pfizer is the world's premier biopharmaceutical company engaging in the business of discovering innovative solutions to some of the most complicated health challenges of our times. Every aspect of our operation is driven by the sole objective of working together for a healthier world.

At Pfizer, we apply science and our global resources to bring therapies to people that can help extend and improve their lives. We strive to set the standard for quality, safety and value in the discovery, development and manufacture of health care products. Our global portfolio includes medicines and vaccines as well as many of the world's known consumer health care products. Every day, Pfizer colleagues work across developed and emerging markets to advance wellness, prevention, treatments and cures that challenge the most feared diseases of our time. Consistent with our responsibility as one of the world's premier innovative biopharmaceutical companies, we collaborate with health care providers, governments and local communities to support and expand access to reliable, affordable health care around the world. For more than 150 years, Pfizer has worked to help make a difference for all who rely on us.■

## Pakistan Cables Limited



**SINCE 1953 WE ARE TRUSTED NOT TO COMPROMISE**

Pakistan Cables Limited (the "Company"), is regarded as the pioneer within the cable industry owing to its rich heritage, expertise and commitment to deliver world class products and services

to its valued customers both at home and abroad.

Pakistan Cables, the country's oldest and most reputable cable manufacturer, was established in 1953 as a joint venture with British Insulated Callender's Cables (BICC). In the subsequent six decades, the Company earned a reputation as a market leader and premier cable manufacturer in the country. As the only wires and cable manufacturer in Pakistan listed on the Pakistan Stock Exchange, the Company is renowned for its commitment to ethics and business excellence. Between 2010 and 2017, the Company was affiliated with General Cable, a world leader in the cable industry and a Fortune 500 Company headquartered in the United States.

The Company is ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007 certified and has had several of its cables type tested by the world renowned KEMA Laboratory in Netherlands. With the latest award of KEMA Gold Type-test certificates, the company now holds eight KEMA certificates in total.

Protecting the health and safety of our people and ensuring a healthy working environment is of great importance to the company; such as the Company is committed to working towards designing a workplace that minimizes work related risks and occupational health and safety. The Company is committed to run its business in an environmentally sound and sustainable manner and promote preservation of the environment. The company prides itself on manufacturing products that are "Environmentally friendly". Moreover, the company encourages customers to return its wooden cables drums as recycling wooden cable drums reduces deforestation.

Through its foreign affiliations with leading international cable manufacturers the Company has been able to enhance its technical support, introduce innovative technology in the industry, leverage on management best practices, identify procurement advantages and develop export opportunities.

Today, Pakistan Cables is regarded as the pioneer within the industry owing to its rich heritage, expertise and commitment to consistently deliver world-class products and services to its valued customers.■

## PharmEvo (Private) Limited



PharmEvo owns a strong heritage of innovation that began in 1997 in Karachi when a group of one-of-a-kind people founded a pharmaceutical company that has changed the course of pharmaceutical history in Pakistan.

It's an inspiring tale of a handful of people who dreamt to create an organization with a loving spirit that comes from the heart & enriches all they touch, customers, their employees and of course the society.

PharmEvo (Private) Limited, a pharmaceutical & Nutraceutical products manufacturing company, aims to be recognized as a symbol of corporate excellence and socially responsible organization through:

The integration of Quality, Environment, Health & Safety management laws and regulations to company operations in achieving organizational excellence;

- Maintaining integrity of our processes & facilities while ensuring human & environmental safety, cost effectiveness & efficiency in its operations through continual & effective improvement;
- Identifying and addressing the impacts of its activities on the product quality, environment and health of its employees;
- Achievement and maintenance of highest quality of products, conforming to legal & regulatory requirements and national and international standards in meeting or exceeding customers satisfaction;
- Fostering a conducive yet performance-oriented work environment;
- Continuous dissemination of the current and reliable information to medical community & general public;
- Recruitment, retention & development of highest quality professionals;
- Advancement in new therapeutic categories through acquisition and / or indigenous product development;
- Fair treatment to all internal & external partners. ■

## Qarshi Industries (Pvt.) Limited



Qarshi Industries is one of the largest and highly rated national companies in Pakistan producing more than 250 health care herbal medicine products, health supplements and refreshing syrups. All the products produced and marketed are backed by Research and development (R & D) Laboratories Lahore and Quality assured by Qarshi Research International (QRI) Labs, Hattar.

The Company has evolved into a modern, successful and progressive industry since its establishment in 1988, manufacturing and marketing leading brands of natural products and herbal medicines within the country and abroad. QIL is recognized as a quality-conscious and environment-friendly company and consolidated its image during various phases of its development with modern technical and scientific facilities and commitment to international quality standards. Qarshi is well aware of its environmental obligations as well. The highest quality standards of Qarshi was confirmed by the world's leading newsweekly TIME in its May 5, 2008 issue, which featured Qarshi's Johar Joshanda as 'Best for the Body', in its cover story, 'The Best of Asia'. It's not only a pride for Qarshi but an honor for the country. Having nine national and international accreditation/certifications Qarshi became one of the few leading organizations in SAARC, Middle East and Africa with the commitment to fulfill its obligation and standing for protection and improvement of environment. Qarshi commitment to environmental protection was formalized by acquiring ISO 14001 in 2000 and development of corporate environmental policy in the same year.■

**Hand in hand, lets save the land**

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شجر کاری ہم  
سرسبز پاکستان  
Sarsab Pakistan

### Quality Testing Services (Pvt.) Limited



Quality Testing Services (Pvt.) Limited ("QTS"), formed in June 2012, from a parent organization M/s. EMC Pakistan Pvt. Limited, a market-leading firm of environmental and engineering consultants, operating in the environmental services sector in Pakistan since 1997.

Quality Testing Services is mandated to engage in the high quality accredited analytical services for liquid, gases and solid for different projects and industries. Staffed and managed by a highly enterprising, qualified, technical and motivated team of professionals, QTS aspires to be the premier climate change and renewable testing laboratory in Pakistan by providing bespoke solutions to clients and understand their needs in terms of the technical and commercial demands they face. QTS laboratory EPA and also ISO (19001-2008) certify.

Quality is important to our business because we value our customers. We strive to provide our customers with services which meet and even exceed their expectations. We are committed to continuous improvement and have established a Quality Management System which provides a framework for measuring and improving our performance. We have systems and procedures in place to support us in our aim of total customer satisfaction and continuous improvement in our services. Our recognition and acceptance of these responsibilities will be demonstrated by our commitment to: Complying with our regulatory, legislative, contractual or other obligations, and anticipating them whenever possible; Continually improve our quality management systems by reviewing objectives, conducting audits and management reviews under International standards; seeking to satisfy our customers fully by constantly adapting our services to their current needs and future requirements; guaranteeing that all employees and subcontractors are trained in accordance with their roles and the work they undertake.

Quality is important to our business because we value our customers. We strive to provide our customers with services which meet and even exceed their expectations. We are committed to continuous improvement and have established a Quality Management System which provides a framework for measuring and improving our performance. ■

To get daily updates about Environment  
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### Roots School System



#### EDUCATING FOR TOMORROW'S WORLD!

Developing profound knowledge, entrepreneurial skills and values through 3E's: Exposure, Expansion & Exploration to meet the challenges of 21st century!

Roots School System RSS is a leading 21st model private sector educational institution styled on the modern 21st century educational system of international standards, specially designed to meet the requirement of the students to meet the challenges by involving the three E's approach EXPOSURE - EXPANSION - EXPLORATION. Established since April 1988, Roots has innovated modern education standards, with universally acclaimed academic excellence and all round development of students. Roots School System has more than 100 Campuses nationwide with an incessant increase in student number to nearly 25,000 plus students today. Roots has achieved academic excellence and all round development of students for over 25 years.

#### Perspective:

The foundations of our perspective are the things we have always stood for celebrating, diversity, creativity, vitality & excellence. The world is changing dramatically and the things that make Roots different are now more relevant than ever before. Diversity is important because the huge range of different disciplines, culture, backgrounds and point of view of the school / college, make it a uniquely challenging learning environment perfectly suited to the kind of world we send our graduates out into.

#### Creativity:

Creativity has made Roots an innovator in so many fields, but we recognize that at the heart of our creative culture is the ability to thrive in a complex and ever changing environment.

#### Vitality:

The vitality of Roots comes from the fact that, despite being one of the biggest and most rapidly expanding school / college, everything that happens here happens between people.

More than anything else, these encounters provide an opportunity for people to transform their lives by liberating their energy and abilities. Excellence at Roots is not just about competition and self-advancement, but about a community of learning that cares about its members and actively helps them to achieve the best they are capable of. ■



## Samsons Group of Companies (Pvt.) Ltd



Samsons Group contemplates that it is our social responsibility to protect the environment. So, to combat climate change and to sustain our environment from pollution, Samsons group has planted trees and ensures their sustainability to nurture our planet as trees remove particulate matters and other toxic gases from the air we all take breathe.

### Location and area covered

Samsons Group of Companies did the plantation at an area of 10 Acre near 7 km before Rangpur, Jhang Muzafargarh Road at their own land.

### Types of sapling/tree planted

Plantation mainly includes fruit trees like Orange, Moringa, Guava and Falsa.

Locally grown produce helps the environment in more ways than one. Unless specified as "locally grown," fruit purchased at the grocery store might be shipped hundreds, if not thousands, of miles before reaching your store, losing both freshness and nutritional value in the process. Fruit needs only to travel a short distance. The result is less use of fossil fuels and packing material, and fresher, more nutritious fruit.

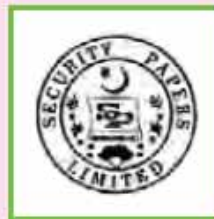
### Reduced CO2 Emissions

The burning of fossil fuels is largely believed to be the cause of global warming. Carbon dioxide is one of the greatest offending fossil fuels. Fortunately, trees help offset the effects of CO2 pollution. Trees, including fruit trees, actually need CO2 to survive. Trees act as a cleaner, or filter for the air, absorbing CO2 and expelling fresh oxygen into the atmosphere. Fruit tree also help to reduce greenhouse gases. According to Tree People.org, one acre of mature fruit trees will absorb as much CO2 as would be produced by driving 26,000 miles.

### Reduced Energy Costs

Fruit trees help you to save and reduce the cost of utilities, such as electric and water. Although mild Mediterranean climates seldom experience the heat of summer that some climate zones experience, a fruit tree providing shade for your home can reduce the need for cooling on the occasional hot day. When partial shade-loving plants are incorporated near your fruit tree, they lose less water through evaporation on sunny days, reducing the need for supplemental watering. Lawns shaded by fruit trees are also healthier and more vibrant, because they do not lose moisture or become scorched by the sun. ■

## Security Papers Limited



SPL was established in 1965. It became a joint venture company of Iran, Turkey and Pakistan in 1967, under the protocol of RCD - now ECO - in 1967. The basic function of the Company was and still is; to manufacture banknote and other security paper.

### Brief history of the Company is as under:

- In 1965 it was incorporated as a Company (as a private Company).
- In 1966 signing of the contract for the supply of Paper Machine-1 (PM-1) with Mills-Paugh, U. K took place.
- In 1967 it was converted into a public Company.
- Also In 1967 it was listed on the Karachi Stock Exchange.
- In 1969 commercial production of PM-1 was started.
- In 2001 the contract was signed for supply of Paper Machine-2 (PM-2) with Voith Paper, Germany (Obsolete PM-1 made redundant and scrapped)
- In 2003 the Commercial Production of PM-2 was started.
- In 2004 PM-2 was formally inaugurated by the Prime Minister.
- In 2009 Co-Generation Power Plant was commissioned.
- In 2011 the plant was modified and upgraded.
- In 2012 new Mould Cover preparation building was commissioned.
- In 2014 Dry Cleaning Plant was commissioned
- In 2015 Thread Unwind System was commissioned
- In 2016 production of Passport Paper started.
- In 2018 Breaker and Beater Assemblies and Stainless Steel Chests were installed.

Security Papers Ltd. manufactures Banknote Paper and other security documents from 100% indigenous raw materials i.e. comber and textile cuttings of the highest quality. It has successfully been meeting the paper requirements of the Pakistan Security Printing Corporation (PSPC) for printing Banknotes, Prize Bonds, Non-judicial Stamp Paper, Share Certificates, etc. and Watermarked Certificate/ degree papers for various educational institutions of Pakistan. ■



Cleaner Environment  
Greener Pakistan

## Sindh Engro Coal Mining Company



Sindh Engro Coal Mining Company (SECMC) is a joint venture between Government of Sindh (GoS), Engro Energy Limited (formerly Engro Powergen Limited) and its partners namely; Thal Limited (House of Habib), Habib Bank Limited (HBL), Hub Power Company (HUBCO); China Machinery Engineering

Corporation (CMEC).

SECMC was created with the vision "to develop a technically and commercially viable Coal Mining Project in Thar Block - II to bring energy security to Pakistan". The total reserves of block II are sufficient to support 5000MW of energy for 50 years; enough to pull the country out of the energy crisis.

The Bankable Feasibility Study (BFS) of the mining project was developed by Sinocoal International Engineering Research & Design Institute of China, RWE of Germany, SRK (UK) and Hagler Bailly in 2010, for a Mine capacity of 6.5 Mt/annum. The study concluded that the project is technically, commercially, environmentally and socially feasible. In 2012-13 RWE amended the original Feasibility Study for the Mine size of 3.8 Mt/annum, which was done to reduce the capital cost of the overall project. In 2012, RWE also developed a Competent Person Statement (CPS) for the Lignite Resources in Thar Block II, confirming that the total resources in Thar Block II are 2.039 Bn tons of which 1.57 Bn tons are mineable.

SECMC's mining project is categorized amongst the 'early harvest' projects under CPEC to generate electricity utilizing Thar's untapped coal reserves. The total planned mining capacity of the project will be 20.6 MT/annum with a capacity to scale it to 30.4 MT/annum while the power generation capacity is projected to be 3,960 MW at full capacity.

### Vision Statement:

Energizing Pakistan through world class mining in Thar while ensuring prosperity to its community. ■



## Sui Southern Gas Company Limited



SSGC's incredible success story began in 1954 when engineers and technicians of Sui Gas Transmission Company pioneered the construction of Asia's first 16 inch diameter, 558 km long pipeline. The pipeline was part of a grand vision to harness natural gas discovered in Sui, Balochistan and transport it all the way to feed the budding industrial hub

of Karachi. Sixty five years later, SSGC is a vibrant energy power house, engaged in transmission and distribution of gas to more than 2.8 million domestic, commercial and industrial customers located in its franchise areas of Sindh and Balochistan.

The Company provides clean and affordable fuel to more than 2.83 million domestic, 23,178 commercial and 4,173 industrial customers. A downstream company, SSGC purchases natural gas from 24 gas fields, operated by upstream local and multinational exploration and production companies.

The Company comes under the umbrella of the Ministry for Energy (Petroleum Division). It is managed by an autonomous Board of Directors for policy guidelines and overall control, with a Managing Director managing day to day affairs.

SSGC's transmission and distribution network stretches across 3,614 kms and 45,000 kms, respectively. The Company's core business includes transmission, distribution and sale of Natural Gas, design and construction of transmission and distribution Project and more recently the transmission of Re-gasified LNG.

Among the Company's non-core businesses are the sale of Liquefied Petroleum Gas (LPG), Natural Gas Liquid and Condensate and manufacturing of domestic gas meters.

The Company also runs a subsidiary company by the name of SSGC-LPG (Pvt.) Ltd. which is engaged in the marketing and distribution of LPG across the country. Since 1975, SSGC has been productively running Pakistan's only Meter manufacturing plant that meets the needs of all its domestic and industrial customers.

The Company is served by several nerve centers or Headquarters, strategically located in different locations of Sindh and Balochistan. These Headquarters ensure optimum gas transmission and compression, from the fields to customers in the respective regions.

As one of the key stakeholders in the LNG project, SSGC recently commissioned an ambitious infrastructure for transmitting re-gasified LNG (RLNG) to the consumers, as part of the Government of Pakistan's objective of bridging demand-supply gap of natural gas.

The Company's scope of responsibility includes receiving RLNG and transporting, through a dedicated 42" diameter, 352-km pipeline that it is constructed to transport a volume of 600 mmmcf capacity fuel to consumption nodes that require it most. ■

## Thal Engineering



**Thal Engineering:** Thal Engineering is the leading automotive manufacturer bringing the latest technology to its customers. It was established in 1996. Syed Akkas ul Hussain is the Chief Executive of the company. The name of its parent company is Thal Limited. Its head office is located on Sharea Faisal in

Karachi. The company possesses the certifications IATF 16949, ISO 9001, ISO 14001, and ISO 45001.

Its valued customers included Pak Suzuki Motor, Honda Atlas, Indus Motor, Hinopak Motor, Sigma Motor, Al Ghazi Tractors, Alsons Autoparts, Yamaha Motors, and Landirenzo.

For its Thermal system business, the company's products are: Auto Air Conditioning Systems, HVAC, Aluminum Radiators, Cooling Sub Module, Lever Assy Heater Control, Reserve Tank & Newly added Starter & Alternators.

For its Electric system business, the company manufactures wire harness for automotive, passenger cars, trucks, and buses, motorcycles, and tractors. It manufactures wires harness for other equipment as well. It also produces battery cables and jumper cables.

Muhammad Asim Aqil is the Chief Operating Officer of the company's Thermal system and Electric system businesses. ■

## The Searle Company Ltd.



A diversified healthcare providing company dealing in manufacturing, marketing, and distributing pharmaceuticals, biopharmaceuticals, nutrition, IV solutions, OTC and health supplements, medical devices and diagnostics. Last few years have been very prosperous for the Searle Company limited on many fronts. Being one of the

most highly reputed pharmaceutical companies in Pakistan and despite the challenging economic conditions, the company still managed to achieve impressive growth and contributed significantly in improving the lives of millions of patients across the world.

Corporate social responsibility has always been a top priority of Searle. Accordingly, the company's CSR program has a wide scope encompassing initiatives in the area of healthcare, education, child welfare and other social welfare activities.

Established in 1995, TCF is an organization devoted to providing education for the less privileged. Searle supports, TCF to run 1060 schools at 109 locations, educated 165,000 under-privileged children and give employment to 8,900 teachers.

Recently adopted and managed by Searle, the AKAR hospital is located in an underprivileged area of Karachi, and offer free diagnosis, OPD clinics, surgeries and even medicines for the unaffordable class of community. Almost 400 patient are treated every day in OPD, whereas 100 patients are admitted for different issues. ■

## The Aga Khan University Hospital

Aga Khan University Hospital started operations in 1985. It is a philanthropic, not-for-profit, private teaching institution committed to providing the best possible option for diagnosis of disease and team management of patient care. AKUH's multi-disciplinary approach to diagnosis and care ensures a continuum of safe and high quality care for patients - all services under one roof.

The University Hospital provides high quality of patient care in a broad range of secondary and tertiary services to over 50,000 hospitalised patients and to approximately 600,000 outpatients annually.

In September 2006, AKUH became the first hospital in Pakistan and one of the select few teaching hospitals in the world to be awarded Joint Commission International (JCI) accreditation for achieving and maintaining highest international quality standards in healthcare. AKUH is also the first hospital in Pakistan and among the first few teaching hospitals in the world to receive ISO 9001: 2008 certification. AKUH remains a differentiated provider in the field of healthcare. It has continued to excel because it provides quality services and is keen to innovate.



### Inpatient and Outpatient Services

AKUH has 577 beds in operation including 4 VIP, 106 Private and 100 Semi-Private air-conditioned rooms, 202 General Ward beds and 32 Surgical Day Care beds. In addition, 70 Special Care Units (SCU) and 08 Cardiac Step Down (CSDU) beds are located at various locations within the hospital and 55 Critical Care beds are available in Intensive Care Unit (ICU), Coronary Care Unit (CCU), Coronary Intensive Care Unit (CICU) and Neonatal Intensive Care Unit (NICU). The Hospital has 11 main operating theatres. There are four additional operating theatres in Surgical Day Care, 2 in Community Health Centre, 1 in Obstetrics and Gynaecology and 2 mini-theatres in the Section of Emergency.

The Hospital is equipped to diagnose and treat Medical (including Cardiac), Surgical, Obstetrics and Gynaecology, Paediatrics and Psychiatry patients and its inpatients have an average length of stay of 3.3 days. The Hospital also provides comprehensive Oncology Services for almost all adult and Paediatric Cancers including: Medical and Surgical Management, Radiation Therapy, Chemotherapy and Bone Marrow Transplant. ■

## Uch Power (Private) Limited (UPL)



Uch Power (Private) Limited (UPL) owns and operates a 586 MW (ISO gross capacity) gas fired combined cycle power plant in the Baluchistan province of Pakistan, which is one of the largest Independent Power Project (IPP) undertaken under the Government of Pakistan (GoP) power policy of 1994. The

Uch Power Station began operation in October 2000 and is unique as it is based solely on field specific, indigenous low and medium BTU gas.

We in UPL are fully committed to providing a safe and healthy workplace to protect all those affected by our activities and to avoid or minimize any adverse environmental impact of our business.

While the Plant Manager holds ultimate responsibility for the implementation of this policy at all levels of the organization, every UPL employee including contractors shall accept individual responsibility and be accountable for managing Quality, Health -Safety and Environmental matters.

The objective of this policy is to promote a strong and effective culture resulting in the highest level of Quality, Health, Safety and Environmental performance. We believe that Health, Safety and Environment are core values of our business and its management and continual improvement is an integral part of our activity.

UPL personnel, contractors and visitors are required to comply with all Uch Power Station Site Quality, Health, Safety & Environmental obligations for themselves and others.

### In order to achieve these objectives, UPL management shall:

Annually review and document the Quality, Health -Safety and Environment (QHSE) risks associated with the business and implement action plans to minimize these risks.

- Respect the global, national and local environmental laws.
- Monitor health and safety performance through the use of self-audits independent audits and external 3rd party audits.
- Comply with all applicable regulations, legislation and where applicable best industry practices to drive standards.
- Comply with all Engie -BEI applicable Health Safety & Environmental commitments and adopt procedures into local procedures. ■

## Saylani Welfare Trust



Pakistan is stuck in environmental degradation which is the threatening moment for this country for its environmental sustainability. This threat can be reversed if the necessary actions are taken to control environmental degradation and it would have immediate benefits and be particularly helpful to

the poorest, which are most vulnerable.

Saylani Welfare International Trust is considering its responsibility to maintain its country's environmental sustainable by taking immediate actions to safeguard this country by organizing different plantation drives while influencing other corporate sectors, which are mainly responsible for the current environmental degradation.

First of all, a tree plantation drive was organized by the Saylani Welfare International Trust as it supports to uplift the initiative of Greener Pakistan under the social vision of protecting the environment. In this vision Saylani Welfare is organizing plantation drives at its own branches located all over the country.

In addition, Saylani Welfare has established and maintained a nursery in Karachi located at Jhangir Road where they distributed plants to locals and other plantation campaigners who are initiating their campaigns free of cost to boost up this initiative.

Further, in collaboration with Gul Ahmed Textile Mills Limited as a CSR Partner and Cantonment Board Faisal, Saylani Welfare International Trust planted millions of seeds and plants at different places to change the climate all over the city of Karachi under the vision of Greener Pakistan 2020.

Another plantation drive is also initiated by Saylani Welfare International Trust in collaboration with the CandyLand as a CSR partner that donated thousands of small plants to Saylani and also participated in plantation at different places of the city. In this campaign, CEO of Bisconni Mr. Hamid M. Ismail graced the occasion with his kind presence. Under this campaign, 500 trees have been planted in different schools of District Central; 1,000 trees in Police Headquarters Garden; another 1,000 trees in Industrial Area in collaboration with trade and industry association of the area; 200 trees in a school of Safoora Goth; and 300 trees have been planted in other parts of the city in collaboration with different NGOs. ■

# IEEEP FAIR 2019



## 10<sup>TH</sup> ANNIVERSARY EDITION

# PAKISTAN'S PREMIER B2B ELECTRICAL & ELECTRONICS INDUSTRIAL EXHIBITION

October 1<sup>st</sup> - 3<sup>rd</sup>, 2019 | Karachi Expo Centre

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IEEEP KARACHI CENTRE

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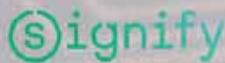
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FOR 65 YEARS, WE ARE

**TRUSTED**

NOT TO COMPROMISE.

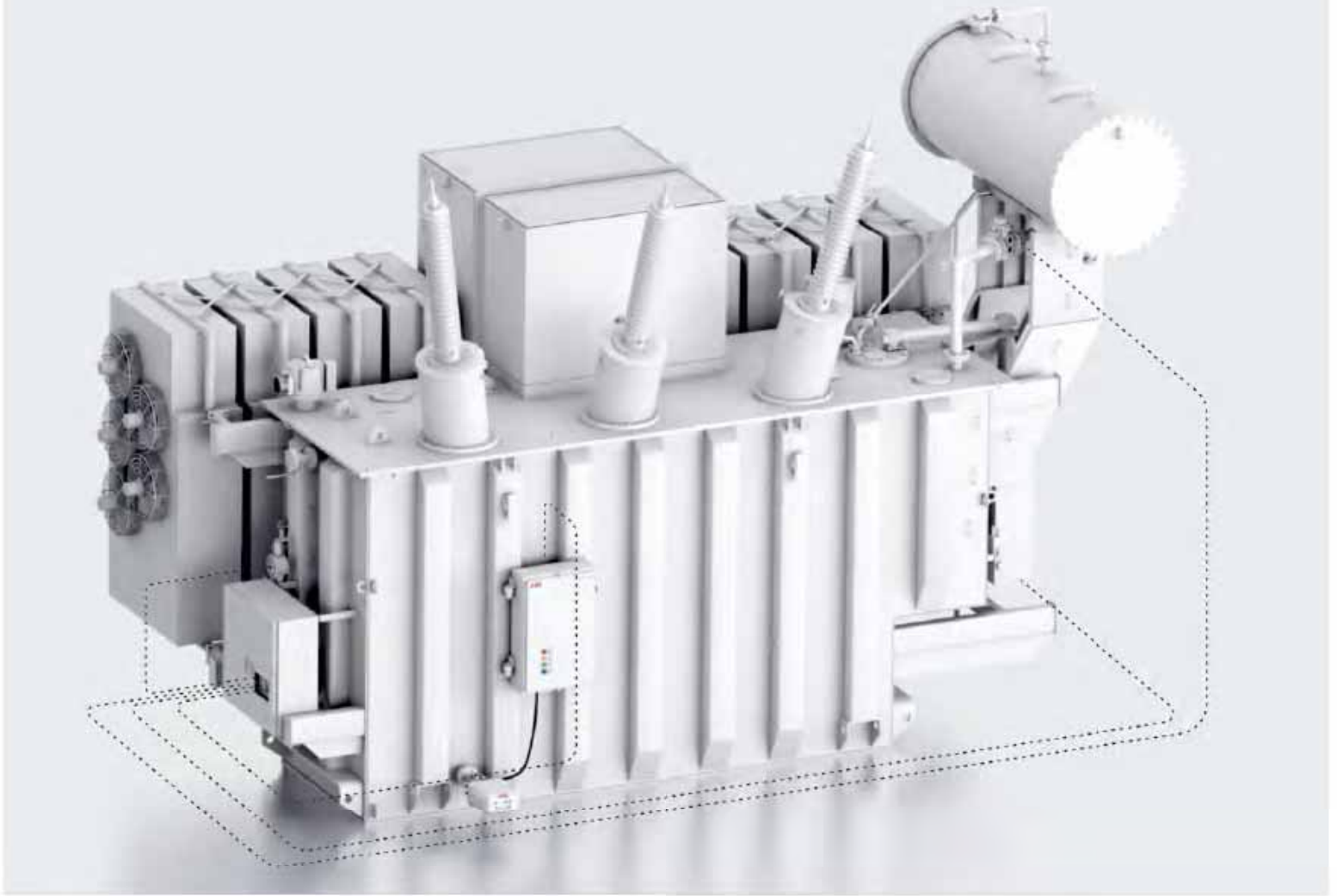


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