The Punjab Information Technology Board (PTIB) has fully committed to making Gilgit-Baltistan a hub of Information Technology (IT) in the country. In a ceremony held at Ahsan Ul Haq Auditorium of the Information and Education Department of Gilgit-Baltistan, the PTIB, in collaboration with the Gilgit-Baltistan Information Technology Board (GITB), signed a Memorandum of Understanding (MoU) for the deployment of an online student information system across Gilgit-Baltistan.

The memorandum of understanding aims to bring all of its constituents under one roof, enabling them to access a variety of online services. PTIB and GITB have agreed to become a catalyst in Gilgit-Baltistan’s digital transformation, providing valuable experience, skills, and awareness for important causes.

PTIB Secretary Muhammad Shabbir Ahmed, Chairman of PTIB, briefed the participants of the MoU about the role of the PTIB in Education, and PTIB Chairman Ahsan Ali and GITB Chairman Maham Adil have also shared their views.

The signing of this agreement will foster an environment that will enable students to learn the value of technology to create social impact. The PTIB is committed to providing technical support, skill-training, and essential components for electric vehicles (EV) development, which will assist PTIB in realizing the social impact of this initiative.

The signing of this agreement marks an important step in the ongoing digital transformation of Gilgit-Baltistan. The PTIB and GITB are committed to working together to bring about a positive change in the lives of people in the region. This initiative is expected to have a significant impact on the education sector and contribute to the overall growth and development of the region.
**Pakistan To Face Food Insecurity Crisis As Growers Abandon Wheat**

Pakistan is expected to face a food insecurity crisis this year as growers are abandoning wheat, according to a recent report. The report cites that a combination of high production costs, low profits, hoarding, and other factors are responsible for the decline in wheat cultivation.

**Environmentalists Propose Recycling Trash Into Useful Resources**

Environmentalists in Pakistan are proposing recycling trash into useful resources, aiming to reduce the country's waste and cut down on the use of single-use plastics. The proposed recycling centers would process waste into usable products, such as plastics, metals, and paper, reducing the need for new raw materials and helping to combat pollution.

**Anti-Polio Teams Deploy At Transit Sites In Punjab To Eradicate Polio**

Anti-polio teams have been deployed at transit sites in Punjab to eradicate polio. The PunjabEOC has issued an alert reminding children to ensure that accessible vaccination is done, and vaccinating not- Available children, like health camps. This was done to ensure that accessible children receive polio drops and communities are able to receive integrated services.

**Prime Acquires 100 Percent Shareholding Of Eni Pakistan Limited**

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**Thalnova Power Ther Successfully Synchronizes With National Grid**

Thalnova Power Ther (Pvt) Limited (Thalnova) has reached a milestone watermark by successfully synchronizing with the national grid on April 30, 2022. The company has been setting new records with its renewable energy projects, and this achievement is a testament to its commitment to sustainability.

**FG Reveals TTP's Role In Wheat Predatory Trade**

The government has revealed the role of the TTP in wheat predatory trade, stating that the terrorist organization was involved in speculation and hoarding to manipulate the market. The government has taken swift action against the TTP, and the market is now stabilizing.

**Pakistan Senate Discusses National Animal Transmissible Encephalopathy:**

The Senate of Pakistan has discussed the threat posed by the National Animal Transmissible Encephalopathy (NATE). The debate highlighted the importance of animal disease prevention and control, and the need for better veterinary infrastructure to combat this threat.

**China-Pakistan Agricultural Cooperation**: The China-Pakistan Agricultural Cooperation is a significant step towards strengthening bilateral ties and promoting economic growth. The cooperation includes joint research, technology transfers, and the establishment of agriculture parks, which aim to boost agricultural productivity and develop new markets for Pakistani products.

**Taj participación en la venta de las acciones en la Bolsa de Comercio de Karachi:**

El Ministerio de Agricultura de Pakistán anunció que tiene planes de participar en la próxima venta de las acciones en la Bolsa de Comercio de Karachi. La participación de Pakistán en la venta de acciones es una oportunidad para potenciar la economía del país y promover el crecimiento económico.

**Eni's business in Pakistan**: The successful completion of the Eni Pakistan transaction is a further testament to the country's continued growth and modernization. The deal between Eni and the Pakistan Oil Fields Company Limited (POFCo) is significant as it marks the first time that a European company has acquired a 100 percent stake in a Pakistani oil field.

**Pakistan's Population:** Pakistan's population is over 225 million and growing every year, but its banking infrastructure is severely outdated. The majority of Pakistanis lack access to banking services, and the market has a high demand for innovative solutions to improve financial inclusion. The country has made significant strides in financial inclusion, with the number of bank accounts increasing significantly in recent years.

**Taj Fintech's Bike Scheme**: Taj Fintech, a leading fintech company, has launched a bike scheme with the goal of making transportation more affordable for Pakistanis. The scheme involves providing affordable e-bikes to help reduce pollution and improve access to transportation in urban areas.
most grain losses occur in the storage facilities, biodegradation, and improper handling. It’s crucial to keep the losses at a minimum to maintain the nutritional value of the stored grain.

### Causes of Losses:

1. **Pre-harvest Losses**
   - **Weather-related events**: Damage due to wind, hail, and heavy rain during the growing season.
   - **Biological factors**: Pests and diseases affecting the crop.

2. **Post-harvest Losses**
   - **Mechanical damage**: During harvesting and transportation.
   - **Temperature fluctuations**: During storage.
   - **Harmful chemicals**: Exposure to toxic substances.

3. **Storage Losses**
   - **Spoilage**: Due to mold and mildew.
   - **Mice and insects**: Damage from pests.

### Solutions to Reduce Losses

- **Improper storage conditions**
- **Usage of biodegradable silos**
- **Chemical fumigation**
- **Application of dry ice**

### Economic Impact

- **Reduced yield**
- **Increased costs**
- **Lower crop prices**

### Conclusion

Reducing crop losses is crucial for ensuring food security and making agriculture a sustainable and profitable venture. By implementing proper practices and technologies, farmers can significantly reduce losses and improve their overall productivity.
The developed world has significantly increased biodiesel production over the last two decades. It was estimated that World had produced approximately 3.8 billion liters of Biodiesel in 2005 and about 85% of total production was in the European Union, which is about one-third of the total annual diesel requirement of Pakistan.

M. Titha Aslam

Self-Reliance In Fuel Through Biodiesel Production

Depletion of Freshwater Resources

Water pollution significantly increases the demand for domestic and industrial freshwater resources. The world is facing a crisis related to the depletion of freshwater resources. The treated water has several applications in agriculture, irrigation, aquaculture, industrial consumption, and greenhouse irrigation.

Depiction of Freshwater Resources

Figure 1.

Microwave-assisted transes
deration of the sorbent material used
in wastewater treatment is deple	ed. Such fluids<br>involve the use of ultrasonic waves as<br>nanoscale dimension generally in the 1-2<br>micrometer range and are used only for the<br>removal of toxic pollutants from water samples.<br>The nature of adsorbents used in the treatment of wastewater is an important concern regarding its efficiency of pollutants removal. Traditionally used adsorbents include carboxylic acids, carbonates, olefins, and clay minerals. These adsorbents have the ability to remove toxic pollutants from wastewaters. But they very low sorption capacity and application efficiency.

Fresh Water Scarcity And Emerging Nano-Adsorbents For Wastewater Treatment

Water pollution is a worldwide prob-
lem. The problem is more significant in the developing world, where the availability of freshwater resources is limited. Hence, the demand for wastewater treatment facilities is continuously increasing. Among these techniques, nanotechnology has opened many new horizons for wastewater treatment. Nanotechnology has made it possible to develop new materials that are environmentally and economically sustainable and cost-effective. Nanotechnology has been defined as the science and technology of materials and processes that involve structures, devices, and phenomena that have at least one dimension in the nanometer range (1 to 100 nanometers). The use of nanotechnology in wastewater treatment has several advantages, including high efficiency, high selectivity, and low operation costs.

Recent progress in the field of nanotechnology has led to the development of novel adsorbents for wastewater treatment. There are many different types of nanoscale materials that can be used for wastewater treatment, including carbon-based materials, metal-organic frameworks, zeolites, and clay minerals. These materials have unique properties, such as high surface area, high porosity, and tunable pore size, which make them suitable for the removal of various pollutants from wastewater.

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Controlling reactions: By using biosurfactants, we can not only improve our environment but also enhance the efficiency of the vehicle and extend its life of diesel engines as it is more sustainable and environmentally friendly. However, some countries should adopt such policy, and the use of non-conventional fuels should be encouraged, which would enable them to start building new transportation systems and reduce their dependence on petroleum products.

Nano-Adsorbents: Nanoparticles are the most effective adsorbents owing to their large surface areas, high surface bonding energy, low temperature adsorptions, and high porosity. They are also environmentally friendly and economically sustainable.

The adsorption feasibility and efficiency of a certain wastewater treatment technology depends upon two main factors including potential toxicity and cost-effectiveness. No doubt, adsorbents offer high capacity towards specific pollutants, but their cost is high. Hence, it is important to choose the most suitable adsorbent for the treatment of wastewater. Some adsorbents are considered high, but others can be used as low-cost adsorbents. The future research should be focused on the development of low-cost and high-capacity adsorbents for wastewater treatment.
China's existing marketplaces for blockchain-based non-fungible tokens (NFTs) is set to expand.

**China To Launch Its Own NFT Marketplace To Trade Nonfungible Tokens**

According to Crypto Briefing, the NFT marketplace is expected to be fully functional by the end of January 2023. This will be the Chinese government's first foray into creating a dedicated platform for trading NFTs.

China's National Copyright Administration recently announced the launch of a new NFT marketplace, which will operate under the National Copyright Administration.

The new marketplace is expected to help the country's vast pool of intellectual property (IP) assets find a broader audience, while also fostering innovation and creativity across various sectors. This move aligns with China's broader efforts to promote technological advancement and digital economy development.

China's existing NFT marketplaces are expected to benefit from the new platform's introduction, as it will offer increased liquidity and access to a global audience.

China's entry into the NFT market is significant, given the vast number of IP assets in the country. The new marketplace is expected to provide a platform for artists, creators, and collectors to exchange their works, while also fostering a more transparent and secure trading environment.

China's entrance into the NFT market is expected to trigger a wave of innovation and growth, as the country's tech companies and artists begin to explore the potential of this new market.

**China's Robotic Dogs: The Hottest New Thing Available In Market**

Unimate isn’t the only provider of such products. U.S.-based Boston Dynamics (BD), which is shown in the picture below, is another major player in the market for robotic dogs.

Chinese robotic manufacturers, Unimate, has a foreseen robotic dog that has attracted much attention recently.

Robotic dogs are the hottest new items available in the market, and just like their natural counterparts, these quadropedal robots also want to be man’s best friend.

For this, the dog, or its manufacturer, will make sure it is doing everything to help you out, and of course, it must be a good-looking dog.

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