

Nifty 50 firms registered 92 deaths in industrial ops in FY24

AMRITHA PILLAY

Mumbai, 30 December

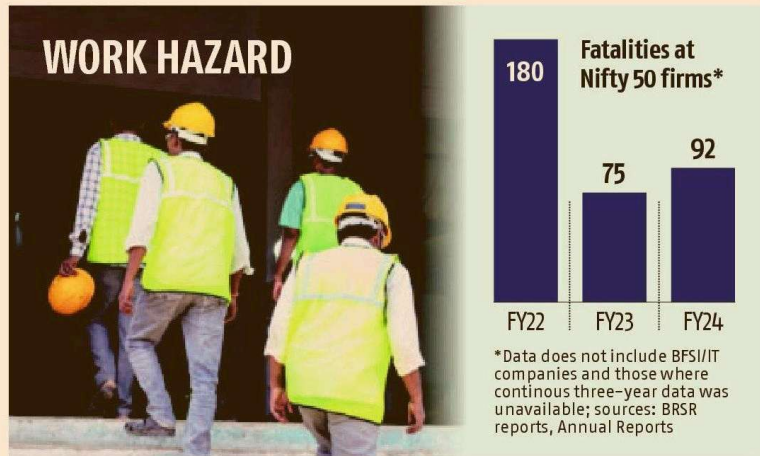
National Stock Exchange Nifty 50 companies failed to rein in the incidence of fatalities at their industrial operations in 2023-24 (FY24), with 92 lives lost during the period, higher than those recorded in the previous year.

Of the Nifty 50 firms (excluding banks, financial services, and technology companies), continuous three-year data related to fatalities at work were available for 29 companies. Data compiled from the Business Responsibility and Sustainability Report show that these 29 companies reported 92 fatalities — employee lives lost in one or more incidents of accidents while undertaking their business operations — in FY24. These numbers include fatalities related to both direct and contractual labour.

This number for the same set of 29 firms in 2022-23 was 75, and 180 in 2021-22 (FY22). The higher number in FY22 was largely due to 86 lives lost in a cyclone-related accident at Oil and Natural Gas Corporation during that year.

Omesh Garga, partner of climate change and sustainability services at EY India, noted, "Safety risks in operations and projects in industrial workplaces remain a significant challenge for Indian companies, with the overall number of industrial accidents still high."

He added, "While there are iso-



lated instances of progress, with certain companies making relentless efforts toward continuous improvement, India Inc as a whole still has considerable ground to cover, and the industry remains far from achieving the goal of zero fatalities. In our dataset of 29 companies, 12 reported zero fatalities in FY24. Of those, just five had zero fatalities for all three years and operated less accident-prone operations such as the production of fast-moving consumer goods."

Of the 29 firms, four companies — Tata Steel, Adani Ports and Special Economic Zone (APSEZ), and Coal India (CIL) — saw more than five lives lost in such incidents in FY24. All of these firms undertake infrastructure and energy sector-related jobs.

Many of these companies employ personnel in hundreds of

thousands, both direct and contractual. A spokesperson for Tata Steel noted that the company's lower Lost Time Injury Frequency Rate is 0.28, well below the global steel industry average of 0.78.

The spokesperson added, "While we have made significant progress, recent safety incidents remind us of the ongoing challenges in achieving this goal. We take every incident seriously, with detailed investigations and corrective actions aimed at preventing future occurrences."

An email query sent to APSEZ and CIL remained unanswered.

"Every incident strengthens our resolve to enhance safety measures through innovation, collaboration, and continuous improvement. Safeguarding the lives of our workforce is non-negotiable and remains our top priority," said a spokesperson for Larsen & Toubro.

Personal IT rate & fuel price cuts, enhanced govt capex, support for MSMEs top industry's Budget wishlist

KR Srivats
New Delhi

Corporate India on Monday urged Finance Minister Nirmala Sitharaman to use the upcoming Budget to tackle the ongoing demand slowdown and pave the way for a consumption boost to propel economic growth.

The submissions for fiscal interventions in the Budget include both personal and corporate tax rate cuts, a reduction in fuel prices by lowering the excise duty, and enhanced public capex on the lines of the recent years.

At the pre-Budget meeting with industrialists, which was chaired by Sitharaman, there was also demand for measures to ensure easy access to finance for MSMEs (Micro, Small and Medium Enterprises).

India Inc also made a case for widening the scope of production-linked incentives (PLIs) beyond the cur-

rent 14 sectors and include sectors such as gems and jewellery.

PERSONAL INCOME TAX
Industry chambers called for a reduction in the maximum marginal personal income tax rate, currently at 42.74 per cent under the highest slab and 39 per cent in the new tax regime, highlighting the significant gap compared to the standard corporate tax rate of 25.17 per cent. They also pointed out that India's personal income tax rates are notably steep compared to global standards.

Ranjeet Mehta, CEO and Secretary-General, PHD-CCI, said, "To boost consumption, we have recommended a tax rate up to ₹50 lakh taxable income of 25 per cent and 30 per cent above ₹50 lakh."

ITC CMD and CII President Sanjiv Puri said there is a need to reduce marginal tax rates for personal income up to ₹20 lakh per annum. This



SEEKING INPUTS. Finance Minister Nirmala Sitharaman at the sixth Pre-Budget Consultations with industry representatives in New Delhi on Monday PTI

will trigger a virtuous cycle of consumption, higher growth and higher tax revenue, he added.

While corporate tax rates have become globally competitive to ensure expanded compliance by individuals, a similar reduction in personal income tax rates is recommended, industry chamber ASSOCHAM said.

SUSTAINING CAPEX

While tax cuts and fuel price reductions are seen as immediate consumption drivers, industry also stressed on

maintaining the government's focus on capital expenditure to sustain long-term growth.

"In the upcoming Budget, there is a need to increase capex spending by 25 per cent over the ₹ 11.1 lakh crore budget for FY25, with enhanced focus on rural infrastructure. In particular, investments in irrigation could target coverage of 80 per cent of gross cropped area by 2030," said Puri.

Vijaya Sankar, Vice-President, FICCI and Chairman, Sanmar Group, suggested

that the government consider increasing the capex in FY26 by 15 per cent over 2024-25.

SUPPORT FOR MSMEs

Sanjay Nayar, President, ASSOCHAM, said that despite the policy for collateral-free loans, MSMEs still face challenges in accessing credit.

He suggested that the Budget provide an additional allocation or net to enhance credit flow to the MSMEs, much like the Credit Guarantee Fund Trust for Micro and Small Enterprises (CGTMSE) launched during Covid, which proved to be a lifeline driving the growth of MSMEs.

The other recommendations made by industry include setting up of a Sovereign Wealth Fund, creating inter-State institutional platforms for power, land and labour (on the lines of the GST Council) and expediting free trade agreements with the EU and the UK.

Reliance seeks \$3.5/barrel premium for oil from KG block

Press Trust of India

NEW DELHI

Reliance Industries Ltd. is seeking a premium of at least \$3.5 per barrel over an international benchmark for the crude oil it produces at the eastern offshore KG-D6 block, according to the tender the firm put out on Monday.

Reliance and its partner BP of the U.K. sought bids from domestic refiners for sale of 17,600 barrels (2,800 kilolitre) of crude oil every month from April 2025 to February 2026.

The crude oil has been priced at daily average price of Nigerian Bonny Light grade of crude oil plus \$1.5 per barrel quality premium. Bidders have to quote a premium over this price, the tender docu-



ment said.

Bonny Light last traded for \$73.5 per barrel. On top of this, \$1.5 per barrel is added as a composite premium “reflecting quality differential”, it said, adding interested buyers are required to a “biddable premium, up to one decimal place and greater than \$2 per barrel”.

The sale period can be

extended by three months to one year on the same terms and conditions, including pricing formula.

Oil, which is turned into fuels like petrol and diesel when processed at refineries, will be delivered by the sellers at Gadimoga in East Godavari district of Andhra Pradesh.

Reliance holds 66.67% interest in the predominantly gas-rich KG-DWN-98/3 block (KG-D6) in the Bay of Bengal. BP Exploration (Alpha) Ltd. holds the balance 33.33%.

The two produce about 30 million standard cubic metre per day of gas from the block. A small quantity of crude oil is also produced, for which they have now sought bids. Bids are due on January 24, 2025, the document said.

Reliance seeks premium for KG block oil

PRESS TRUST OF INDIA
New Delhi, December 30

RELIANCE INDUSTRIES IS seeking a premium of at least \$3.5 per barrel over an international benchmark for crude oil it produces for eastern off-shore KG-D6 block, according to the tender the firm put out on Monday.

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QUALITY SURCHARGE

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Reliance seeks premium for oil from KG block



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Reliance seeks premium for oil from KG block

PTI
feedback@livemint.com
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The two produce about 30 million standard cubic metres per day of gas from the block. A small quantity of crude oil is also produced, for which they have now sought bids.

Bids are due on 24 January 2025, the document said.

"The crude oil sold and delivered shall only be consumed/processed/refined in the buyer's owned and operated facility/(ies)/refinery/(ies) located within India," it added.

All taxes and duties, including excise duty, VAT, GST, will be paid by the buyer.

RIL seeks premium of at least \$3.5 per barrel from KG block

Reliance Industries Ltd (RIL) is seeking a premium of at least \$3.5 per barrel over an international benchmark for crude oil it produces for eastern offshore KG-D6 block, according to the tender the firm put out on Monday.

Reliance and its partner BP of the UK sought bids from domestic refiners for sale of 17,600 barrels (2,800 kilolitres) of crude oil every month from April 2025 to February 2026.

The crude oil has been priced at daily average price of Nigerian bonny light grade of crude oil plus \$1.5 per barrel quality premium. Bidders have to quote a premium over this price, the tender document said.

Bonny light last traded for \$73.5 per barrel. On top of this, \$1.5 per barrel is added as a composite premium "reflecting quality differential", it said, adding that interested buyers are required to a "biddable premium, up to one decimal place and greater than \$2 per barrel".

PTI

LOOKING FORWARD

Storage Projects in Green Energy Sector to be Focus Area in 2025

Shilpa Samant

New Delhi: Energy storage projects are expected to gain centre stage in the renewable energy sector in the coming year as more green capacity gets integrated along with supportive policies, financial incentives, lower battery prices and rising demand.

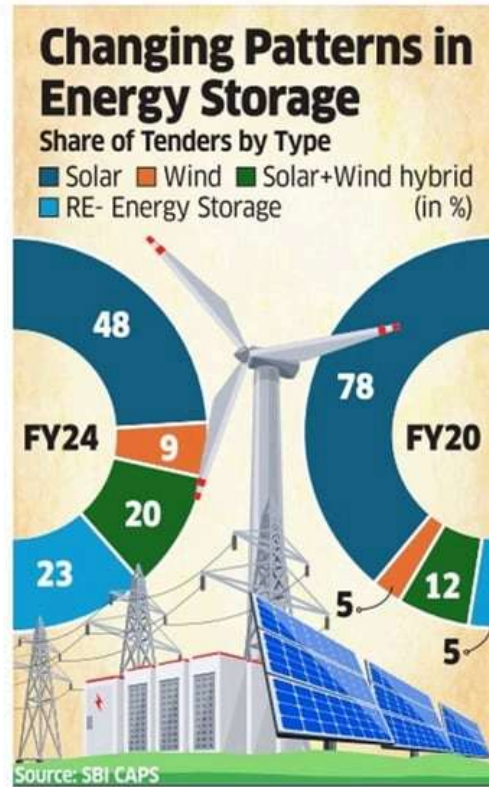
Increasing the share of variable renewable energy capacity requires storage for integration and grid stability, either as an element in a renewable energy project or even on a standalone basis, which has gained traction in the last one year.

On the other hand, India's power demand is rising and planned thermal capacities are likely to be installed gradually by 2032. In between, storage will play an important role in meeting rising peak demand.

Experts believe the government and the industry will encourage storage capacity addition in 2025 as power distribution companies gear up to meet adequate resources for peak electricity demand. "We foresee an acceleration phase for the deployment of battery storage systems for renewables in India by 2025," said Debi Prasad Dash, president, India Energy Storage Alliance (IESA). "Many Indian companies have evolved, and numerous global companies have entered the Indian market this year."

The government has implemented a viability gap funding scheme for battery energy storage systems and is working on a pumped hydro storage policy as announced in the FY25 budget.

India's energy storage market grew 1.7 times in 2024, reaching a total pipeline capacity of 114 GWh of storage-linked projects, according to Debmalya Sen, India Lead -Energy, World Economic Forum (WEF). Sen said 20 GWh of the pipeline is battery energy storage system (BESS), and 91 GWh is pumped storage projects (PSP). "While PSP currently dominates the small capacity, this will soon change, with BESS constituting a lion's share by FY30," SBI Capital Markets said in a report. The major reason is battery prices have been falling and the impact is likely to be seen in the coming year.



ars, industry experts said. This, along with policy and the government's financial support, has led to a steady decline in India's standalone battery tender prices.

The quote for a standalone battery energy storage system tender was ₹2.19 lakhs/MW/month, with a 30% VGF support, sharply lower from 10.83 lakhs/MW/month in March 2022.

A total of 178 MWh of battery energy storage projects were commissioned in 2024, while 29 GWh worth of such capacity moved to the execution phase, said Sen from WEF. The year also recorded the lowest tariff discovery across 'solar plus storage' and firm and dispatchable renewable energy (FDRE) tenders, which have an element of storage, ranging from ₹3.41 per unit to ₹4.73 a unit.

IESA expects a cumulative market potential of around 250 GWh of battery energy storage requirements by 2032.

"We believe that over the next seven years, India will become a market leader in this sector, alongside the US, Australia, Europe, and China," IESA's Dash said.

Trump's fossil fuel thrust will roil energy markets

The challenge for India will be to navigate the geopolitical landscape in the New Year



GETTY IMAGES/ISTOCKPHOTO

CAPITAL IDEAS.



RICHA MISHRA

With US President elect Donald Trump's narrative of "Drill, Baby, Drill" has again created tensions between those who "demonise" fossil fuel and the fossil fuel producing nations.

Nations heavily reliant on fossil fuel imports are now looking to rework their strategies.

India is a high consumer of fossil fuel, due to its growing economy.

Thanks to its refining strength, India is steadily becoming a dominant producer of refined petroleum products.

In 2025, the scene of the energy markets is surely expected to shift if the incoming US administration's stated goals are to be believed.

So with the Trump administration set to take charge next month, what will be the challenges for nations like India?

Umud Shokri, senior visiting fellow at George Mason University and Energy Strategist feels that Trump's return with his "Drill, Baby, Drill" narrative could significantly impact the fossil fuel industry: expected regulatory rollbacks that may create a favourable environment for fossil fuel companies by repealing key climate regulations, while increased access to public lands could facilitate oil and gas exploration.

"However, industry executives might prioritise profitability over maximum production, resisting pressure to boost output. Additionally, market realities such as global demand fluctuations and projections could limit Trump's ability to enhance production," he said.

Finally, repealing clean energy initiatives may have economic repercussions, particularly in

Republican districts that benefit from these programmes, he said adding that while Trump's policies may favour fossil fuels more than Joe Biden's, the actual impact will depend on market forces and industry dynamics.

INDIA IMPACT

India's main sources of crude oil imports are: Iraq, Saudi Arabia, Russia, United Arab Emirates, and the US.

India has been redefining its energy supply lines. Russian crude has now become the mainstay for Indian refining systems and dependence on the Middle East has reduced.

India faces several challenges as a major energy consumer, including the need to balance its growing energy demand with security and affordability, Shokri said.

"The country's heavy reliance on oil imports makes it vulnerable to supply disruptions, while rapidly increasing renewable capacity to meet the target of 500 GW by 2030 poses logistical and financial challenges. Additionally, securing an estimated \$10 trillion for the energy transition by 2070 is a significant hurdle," he added.

India must also navigate the complexities of managing the transition from fossil fuels to renewables while maintaining thermal energy as a baseload source, Shokri said.

Pulkit Agarwal, Head of India Content (cross commodities) S&P Global Commodity Insights, says: "While the short-run effect from the US may not fully translate into higher oil production

India faces several challenges as a major energy consumer, including the need to balance its growing energy demand with security and affordability

immediately, there could be interesting times ahead in terms of drilling rights, infrastructure build-out and LNG export project approvals."

India has become the driver of global oil demand growth, and the global markets will increasingly look to India's consumption markets for demand-led cues as China — a long time leader in global demand growth equation — slows in terms of incremental oil demand, he said.

According to Narendra Taneja, a noted energy expert, "When America's President-elect Trump says 'Drill, Baby, Drill' to boost domestic oil and gas production, it resonates all across the oil producing world. Oil producing countries are welcoming the change in narrative as oil had been demonised by the outgoing Biden administration".

In fact, there will be lot of realignment happening now as many big players in oil business, who had stopped investing in new discoveries, pivoting renewables, will go back to their core business, he said.

On the domestic front, India will need to further incentivise oil and gas exploration and production segment of the sector, he said, "with focus on deep and ultra deep water."

"There is an urgent need for a solid national E&P road map in place, with milestones, built on consensus with various states and stakeholders, to achieve oil and gas independence quickly. We also need to further invest in oil and gas, particularly in discovered assets, overseas as part of the energy independence efforts," he added.

"With Indian economy's growing energy needs, it is clear that renewables at best will only be supplementing fossil fuels and not replacing them for long time to come," said Taneja.

The petroleum consumption data for November — which showed an increase of 4 to 9 per cent, depending on the product, only amplifies the message, he stressed. Of the total energy consumed

in the world today, 80.6 per cent still comes from coal, oil and gas, he added.

Clearly, energy is poised to remain a central focus of geopolitical tensions due to several interconnected factors.

Shokri said, "Vulnerabilities in global energy systems have been exposed by recent conflicts, highlighting risks to both energy security and climate goals. Geopolitical events, such as the Russia-Ukraine conflict, have accelerated efforts by nations to reduce their dependence on specific energy suppliers, reshaping global energy trade patterns."

These geopolitical dynamics are likely to have far-reaching consequences for the global energy landscape. "Nations may increasingly prioritize energy independence and diversification of supply sources, potentially leading to a fragmentation of global energy markets. This could result in increased investment in domestic energy production and alternative technologies, as well as the formation of new strategic alliances," he said.

"The race to secure critical minerals may intensify, with countries and companies seeking to establish more resilient and diversified supply chains. Furthermore, the interplay between energy security concerns and climate objectives may lead to complex policy decisions, as countries balance the need for immediate energy security with long-term sustainability goals," he added.

The outcome of these geopolitical tensions will likely shape the pace and direction of the global energy transition, influencing investment patterns, technological development, and international cooperation in the energy sector for years to come.

A continuing challenge for India will be to navigate the evolving geopolitical landscape. To strengthen its position in the energy sector, India should pursue a multifaceted approach including accelerating renewable deployment.

अनावरण

महाकुंभ की तैयारियों की समीक्षा के लिए दिसंबर माह में पांचवीं बार प्रयागराज आएंगे मुख्यमंत्री

नैनी में बायो सीएनजी प्लांट का अनावरण करेंगे योगी

वैभव न्यूज ■ महाकुंभनगर

मुख्यमंत्री योगी आदित्यनाथ मंगलवार को एक बार फिर महाकुंभ की तैयारियों की समीक्षा करने के लिए प्रयागराज आएंगे। यह इस माह उनका पांचवां दौरा होगा। इस दौरान सीएम योगी नैनी में निर्मित बायो सीएनजी प्लांट का भी अनावरण करेंगे। इसके साथ ही सीएम योगी संगम ऐरावत घाट, संगम नोज घाट के साथ ही गंगा सेतु के समानांतर बने स्टील ब्रिज का भी निरीक्षण करेंगे। सीएम योगी लगभग 4 घंटे प्रयागराज में रहेंगे और इस दौरान वह स्थलीय निरीक्षण के साथ ही आईसीसीसी सभागार में समीक्षा बैठक भी करेंगे। इससे पहले मुख्यमंत्री योगी आदित्यनाथ 7 दिसंबर, 12 दिसंबर, 13 दिसंबर और 23 दिसंबर को भी प्रयागराज का दौरा कर चुके हैं। सीएम योगी करीब 11.55 पर डीपीएस प्रयागराज हैलिपैड पर पहुंचेंगे और यहां से वो सीधा नैनी बायो सीएनजी प्लांट



जाएंगे और इस महत्वाकांक्षी परियोजना का अनावरण करेंगे। यहां से सीएम संगम ऐरावत घाट और संगम नोज घाट का भी निरीक्षण करेंगे। इसके बाद सीएम प्रयागराज मेला प्राधिकरण में बने आईसीसीसी सभागार में 1.20 मिनट से 2.20 बजे तक महाकुंभ के प्रगति कार्यों की समीक्षा करेंगे। यहां से वह विभिन्न मार्गों का स्थलीय निरीक्षण करते हुए गंगा सेतु के समानांतर बने स्टील ब्रिज का निरीक्षण करेंगे और फिर पुलिस लाइन हेलीपैड से वापल लखनऊ के लिए रवाना होंगे। सीएम

योगी नैनी में जिस बायो सीएनजी प्लांट का शुभारंभ करेंगे वह प्रतिदिन 21.5 टन गैस के साथ 209 टन जैविक खाद बनाएगा। प्रयागराज शहर में घरों, होटल-रेस्टोरेंट्स और मंदिरों से 200 टन गीला कचरा हर दिन निकलता है। अब इसी कचरे से प्रयागराज नगर निगम 53 लाख रुपए सालाना कमाई करने जा रहा है। यानी जिस सब्जी, फल-फूल या जूठन को कभी यूं ही फेंक दिया करते थे, उसी से रोजाना अब 21500 किलो बायो सीएनजी और 209 टन जैविक खाद बनेगी। इस प्लांट की कुल क्षमता

343 टन प्रति दिन उत्पादन की है। हर दिन प्लांट से 21.5 टन बायो के साथ 109 टन ठोस जैविक खाद और 100 टन तरल जैविक खाद बनेगी। प्रथम चरण में 200 टन क्षमता के नगरीय कचरे से बायो सीएनजी बनाने का कार्य पूरा हो चुका है। शेष 143 टन धान के पुआल और गोबर से गैस बनाने का काम प्रगति पर है। पीपीपी मॉडल से इस बायो सीएनजी प्लांट का संचालन होगा। इसके लिए प्रयागराज नगर निगम ने 12.49 एकड़ जमीन नैनी के जहांगीराबाद में अरैल घाट के पास दी है। प्लांट का संचालन एवर एनवायरो रिसोर्स मैनेजमेंट प्राइवेट लिमिटेड करेगी। इसके लिए नगर निगम और कंपनी के बीच 25 साल के लिए अनुबंध हुआ है। इसके बाद कंपनी प्लांट का संचालन नगर निगम को सौंप देगी। फिलहाल इस प्लांट के संचालन के लिए करीब 1250 यूनिट बिजली की हर दिन खपत हो सकती है। प्लांट के माध्यम से

जैविक कचरे को ऊर्जा में बदलकर हर साल करीब 56700 टन कार्बन डाइऑक्साइड उत्सर्जन को कम किया जा सकेगा। लैंडफिल से कचरे का यह डायवर्जन ग्रीनहाउस गैस उत्सर्जन को कम करने में और सहायता करता है। इस प्लांट को करीब 125 करोड़ की लागत से तैयार किया गया है। इस प्लांट से बायो-सीएनजी की आपूर्ति प्रयागराज सहित उत्तर प्रदेश में औद्योगिक और खुदरा ग्राहकों को भी की जाएगी। परियोजना में लगभग 200 व्यक्तियों के लिए रोजगार के अवसर पैदा होंगे। एक बार पूरी तरह से चालू हो जाने पर, प्लांट से लगभग 25 कर्मियों को सीधे रोजगार मिलेगा, जबकि 100 से अधिक लोगों को अप्रत्यक्ष रूप से काम मिल सकेगा। इसके अलावा स्थानीय आर्थिक विकास में भी योगदान देगा। प्रयागराज नगर निगम आयुक्त चंद्र मोहन गर्ग ने बताया कि इस बायो सीएनजी प्लांट की स्थापना से निगम को आय होगी।

नोएडा-गाजियाबाद पर कंपनियों ने दरियादिली दिखाई

■ अजित खरे

लखनऊ। कारपोरेट कंपनियों ने अपने सीएसआर फंड खर्च करने में गौतमबुद्धनगर, काशी, मथुरा पर दरियादिली दिखाई है। शीर्ष दस जिलों में गाजियाबाद भी शामिल है।

कुल 1762 छोटी-बड़ी कंपनियों ने यूपी में सीएसआर फंड के रूप में कुल 1152.52 करोड़ रुपये खर्च किए। यह रकम शिक्षा, बच्चों के स्वास्थ्य, भूखमरी मिटाने, ग्रामीण विकास, पर्यावरण संरक्षण, कुपोषण हटाने, खेलों और झुग्गी-झोपड़ी में

राहत कार्य चलाने में खर्च की गई।

आईटी क्षेत्र की दिग्गज कंपनी एचसीएल ने कारपोरेट सोशल रिस्पॉन्सिबिलिटी (सीएसआर) फंड में सबसे ज्यादा रकम खर्च की है। इसके बाद एचडीएफसी, एनपीसी, इंडियन ऑयल, नार्दन कोलफील्ड, हिंदुस्तान एयरोनाटिक्स, भारती टेलीमीडिया ने इस फंड में रकम खर्च की। यूपी में 2014-15 से वर्ष 2022-23 तक सीएसआर फंड में 5,821.11 करोड़ रुपये खर्च किए जा चुके हैं। पर यह राशि अन्य अहम

लाभ का दो फीसदी अंशदान देना जरूरी



कंपनी अधिनियम, 2013 के तहत कंपनियों को अपने औसत शुद्ध लाभ का दो प्रतिशत अंशदान सीएसआर फंड में देना अनिवार्य है। इस फंड से रकम विभिन्न सामाजिक कार्यों के लिए एनजीओ व अन्य सामाजिक संगठनों को दी जाती है। कोविड काल में विभिन्न कंपनियों ने मेडिकल सुविधाओं को बढ़ाने में काफी रकम खर्च की थी।

राज्यों के मुकाबले कम है। इतनी ही अवधि में गुजरात में 29,835.97 करोड़ रुपये कंपनियों ने खर्च किए।

कर्नाटक में 11,006.90 करोड़ रुपये खर्च हुए। महाराष्ट्र में 2014-15 से वर्ष 2022-23 तक

29,534.20 करोड़ खर्च हुए। इतनी अवधि में पूरे देश में 1,84,222.87 करोड़ रुपये खर्च हुए।

फंड का उपयोग करने वाले शीर्ष दस जिले

गौतमबुद्धनगर	226.4	गाजियाबाद	42.64
मथुरा	118.21	सोनभद्र	41.64
वाराणसी	100.23	आगरा	30.79
हरदोई	91.75	अयोध्या	19.52
लखनऊ	70.96	गोरखपुर	17.75
रकम खर्च करोड़ रुपये			

पेट्रोल से सल्फर अलग करने का तरीका खोजा

■ सुनील कुमार

अलीगढ़। डीजल पेट्रोल की कीमतों को कम करने का फार्मूला एएमयू के रसायन विभाग ने खोज निकाला है। विवि के रसायन विभाग में तैयार मिश्रण से डीजल पेट्रोल में मौजूद सल्फर को आसानी से निकाला जा सकेगा। जिससे डीजल और पेट्रोल को पूरी तरह शुद्ध किया जा सकता है।

शोध पूरा होने के बाद शोध पत्र अमेरिकी जनरल में भी प्रकाशित हो चुका है। कार्बन उत्सर्जन को कम करने के लिए विश्वभर में काम चल रहा है। जिससे प्रदूषण की मात्रा को कम किया

170 शोध पत्र और छह किताबें प्रकाशित

रसायन विभाग के एसोसिएट प्रोफेसर डॉ. शाहिद की उपलब्धि बड़ी है। उनकी अब तक देश विदेश के जनरल्स में 170 शोध पत्र और छह किताबें प्रकाशित हो चुकी हैं। वह रॉयल सोसायटी ऑफ केमिस्ट्री लंदन, अमेरिकन केमिकल सोसायटी के सदस्य भी हैं। उनके नाम पर चार पेटेंट भी हो चुके हैं। पांचवां पेटेंट उन्हें इस प्रोजेक्ट का मिलेगा, जिसके लिए आवेदन हो चुका है।

जा सके। इसके तहत एएमयू के रसायन विभाग को 2022 में यूपी काउंसिल एंड साइस ट्रेक्नोलॉजी के तहत डीजल पेट्रोल में मौजूद अशुद्धियों को दूर करने के लिए प्रोजेक्ट मिला था। जिसे विभाग के एसोसिएट प्रोफेसर डॉ. मो. शाहिद और उनकी टीम ने पूरा किया है। उन्होंने डीजल-पेट्रोल में मौजूद अशुद्धियों को

दूर करने के लिए रसायनिक मिश्रण तैयार कर लिया है। डॉ. शाहिद ने बताया कि क्रूड ऑयल से रिफाइनरी में डीजल-पेट्रोल को बनाया जाता है। जिसमें बहुत अशुद्धियां होती हैं। इन अशुद्धियों में मुख्य सल्फर होता है। अगर डीजल पेट्रोल से सल्फर को निकाल दिया जाता है तो वह ग्रीन ईंधन

का रूप ले लेता है। हमारा लक्ष्य सल्फर को अलग करने का था, जिसमें सफलता मिल गई है।

स्पंज के रूप में काम करेगा रसायनिक मिश्रण: रिफाइनरी में ईंधन से सल्फर निकालने की प्रक्रिया महंगी और समय लेने वाला है। इसी प्रक्रिया को आसान करने को लेकर यह प्रोजेक्ट था। क्रूड ऑयल से डीजल-पेट्रोल बनने के बाद यह प्रक्रिया शुरू होगी। डीजल-पेट्रोल में मिश्रण को डाला जाएगा, जो कि एक स्पंज की तरह काम करेगा। स्पंज ऑयल में मौजूद सल्फर को सोखने लेगा। जिससे सल्फर निकाला जा सकेगा।

रिलायंस ने केजी ब्लॉक के कच्चे तेल के लिए प्रीमियम मांगा

एजेंसी ■ नई दिल्ली

रिलायंस इंडस्ट्रीज लिमिटेड पूर्वी अपतटीय केजी-डी6 ब्लॉक से उत्पादित कच्चे तेल के लिए अंतरराष्ट्रीय मानक पर कम से कम 3.5 डॉलर प्रति बैरल का प्रीमियम मांग रही है। कंपनी ने सोमवार को यह जानकारी दी। रिलायंस और ब्रिटेन की उसकी साझेदार बीपी ने अप्रैल, 2025 से फरवरी, 2026 तक हर महीने 17,600 बैरल (2,800 किलोलीटर) कच्चे तेल की बिक्री के लिए घरेलू रिफाइनर से बोलियां मांगी हैं। कच्चे तेल की कीमत नाइजीरिया के बोनी लाइट दर्जे के कच्चे तेल की दैनिक औसत कीमत में 1.5 डॉलर प्रति बैरल गुणवत्ता प्रीमियम को जोड़कर तय की गई है। निविदा दस्तावेज में कहा गया है कि बोलीदाताओं को इस कीमत के ऊपर प्रीमियम के बारे में बताना होगा। बोनी लाइट की कीमत इस समय 73.5



डॉलर प्रति बैरल है। कंपनी ने कहा कि इसमें 1.5 डॉलर प्रति बैरल के समग्र प्रीमियम को जोड़ा जाएगा, जो गुणवत्ता अंतर को दर्शाता है। बिक्री अवधि को मूल्य निर्धारण के फॉर्मूले सहित समान नियमों और शर्तों पर तीन महीने से एक वर्ष तक बढ़ाया जा सकता है। बंगाल की खाड़ी में मुख्य रूप से गैस से भरपूर केजी-डीडब्ल्यूएन-9813 ब्लॉक (केजी-डी6) में रिलायंस की 66.67 प्रतिशत हिस्सेदारी है। बीपी एक्सप्लोरेशन (अल्फा) लिमिटेड के पास शेष 33.33 प्रतिशत हिस्सेदारी है। ब्लॉक से प्रतिदिन लगभग तीन करोड़ मानक घन मीटर गैस का उत्पादन होता है।