#### Reshuffle on the cards?

Fifty days of the Bharatiya Janata Party-led National Democratic Alliance (NDA) government are over but two important parties in the NDA: the All India Anna Dravida Munnetra Kazhagam (AIADMK) and the Janata Dal United (JDU) have no representatives in the union government. So is a reshuffle overdue? Ahead of cabinet formation in May, Deputy Chief Minister O Panneerselvam's son P Raveendranath Kumar and Rajya Sabha member R Vaithilingam were considered as probables in the Union government. While Kumar was the lone AIADMK-NDA victor from Tamil Nadu winning from Theni in the Lok Sabha elections, Vaithilingam was the housing minister in the late J Jayalalithaa's tenure during 2011-16. JD(U) was offered a place in the Union government but was offended with just one ministership. At the last minute, JD(U) leader and Bihar Chief Minister Nitish Kumar, decided the party will not be a part of the government. So a reshuffle is inevitable: the question is, when?

#### On his way out

Former Himachal Pradesh minister and MLA Anil Sharma — who quit the BJP cabinet in April when his son Aashray contested the Lok Sabha election on a Congress ticket (and lost) — is expecting to be kicked out of the party any day. The saffron party had offered its incumbent MP Ram Swaroop the ticket from Mandi constituency, which he won by over 4 lakh votes. At a celebration function in his own constituency that was attended by Chief Minister Jairam Thakur, there was no chair on the stage with Sharma's name on it. He just left the venue. He is expecting marching orders.

#### DID THEY REALLY SAY THAT?



"Our neighbouring country (Pakistan) cannot fight a full-fledged war or a limited war with India. It is fighting a proxy war"

Defence Minister Rajnath Singh in Lok Sabha on the 20th anniversary of Kargil conflict as Parliament paid tributes to Indian soldiers, July 26

#### CHECKLIST SERIAL OFFENDER: RECENT GAFFES OF US PRESIDENT DONALD TRUMP

Ahead of his meeting with Japanese Prime Minister Shinzo Abe at G20 summit in June:"If Japan is attacked, we will fight World War III. But if we're attacked, Japan doesn't have to help us at all. They can watch it on a Sony television."

■ Amid allegations that Russian agencies 'influenced' US elections, During a meeting with Russian President Vladimir Putin on the sidelines of G20 summit in Japan, Trump said, at a press conference: "Don't meddle in the election, please." At the same press conference, he said: "Get rid of them [journalists]. Fake news is a great term, isn't it? You don't have this problem in Russia but we do."

In June, during a visit to the UK, POTUS tweeted: "I meet and talk to "foreign governments" every day. I just met with the Queen of England (UK), the Prince of Whales (sic)

the P.M of the United Kingdom, the P.M of Ireland, the President of France and the President of Poland and we talked about "Everything!"

This was in July: "For all of the money we are spending, NASA should NOT be talking about going to the Moon — We did that 50 years ago. They should be focused on the much bigger things we are doing, including Mars (of which

the Moon is a part), Defense and Science!"

Talking about the turn of events in America in
1775, Donald Trump said, in his 4th of July (US
independence day) speech: "Our army manned
the air, it rammed the ramparts, it took over the
airports, it did everything it had to do." When
pointed out that there was no air force or airport
in 1775, that airplanes were only invented in 1903
(by the Wright brothers), he said: "I guess the
rain knocked out the teleprompter."



OPINION

JAIRAM RAMESH

# Amendments ordered to make CIC toothless

hy are these amendments being brought about now? It is very interesting. It is very important to understand that the timing of these amendments is not so innocuous; it is not so innocent; and after reviewing RTI decisions some of which have already been alluded to by Mr Singhvi, I have here five cases that have propelled the government to bring forward these amendments.

Between 2003 and 2013, the Chief Minister of Gujarat came to the Planning Commission, and the Planning Commission would ask him uncomfortable questions on the state of health in Gujarat, on the state of education in Gujarat; why social development in Gujarat was not commensurate with economic development in the state.

In 2014, the chief minister of Gujarat became the Prime Minister of India (expunged) and abolished the Planning Commission. Today, the Prime Minister of India is (expunged) on these five cases.

What are these five cases? Firstly, the CIC ordered disclosure of the Prime Minister's educational qualification; the matter is in the Delhi High Court today, as I speak.

The second embarrassing case for this government is, the Prime Minister claimed that 40 million bogus ration cards were weeded out by his government. The RTI showed that the number of bogus ration cards is about 23 million and a correction had to be made by the Prime Minister to make that number commensurate with the Parliamentary question that was answered by Ram Vilas Paswan.

The third is the disclosure on demonetisation. It was the Chief Information Commission's decision which revealed that less than four hours before the Prime Minister announced demonetisation on November 8, 2016, the Central Board of the Reserve Bank of India gave its approval.

The first embarrassing case was the disclosure of the Prime Minister's educational qualification. Since it is pending in the court, I am not expanding on it. The second is the false claims made by the Prime Minister on bogus ration cards. The third, which I was reading before I was interrupted is that four hours before the television announcement on demonetisation, it is an RTI request that revealed that the RBI gave its approval to the scheme.

The fourth embarrassing case to this government is that an RTI enquiry revealed that the former Governor of the Reserve Bank of India, Dr Raghuram Rajan — the Minister may kindly listen to me and not look perplexed because these are all facts; it is the RTI enquiry that revealed this — had listed out the names of NPA defaulters to the Prime Minister's Office eight months into his Prime Ministerial tenure.

The fifth case, which is embarrassing to this government is that the Chief Information Commission directed the Prime Minister's Office to disclose information about quantum and value of black money brought back from abroad. The Prime Minister's Office refused to share the details of the quantum of black money brought back from abroad despite the CIC ordering the disclosure.

So, the real reason is not this false reason of parity with the Chief Election Commission. The real reason for these Amendments is to make the Information Commission toothless, to make sure that these types of embarrassments don't repeat themselves. And the only way to do it is to convert the Chief Information Commission from an independent autonomous body to a toothless government, Prime Minister's Office-directed body. That is the real business of this Amendment Bill.

A couple of days ago, the Minister defended these amendments. And, while defending these amendments, he said, 'We have strengthened the RTI Act. We have given the CIC its own building. They have their own building.' Mr Minister, you did not do the CIC any favour by giving them a building. The building was under construction. You were fortunate that the Prime Minister happen to be there in Office to go and inaugurate the building. So, to say that you have strengthened the RTI by giving the CIC a separate building is a deliberate falsification of facts.

The second point that the Minister made is, 'One of the missing links is that there was no provision to frame rules under the RTI Act. It should have been there.' Sir, this is completely an erroneous impression. Section 27 — I don't know whether the Minister has ever read the RTI Act — of the Act empowers the Central Government and the State Governments to make rules. We don't pass any Bill without the power to make rules.

The third claim, the Minister said, 'It is this Government which introduced a portal for the RTL'. Sir, the portal was inaugurated on August 21, 2013, by his predecessor, Shri V Narayanasamy, who is now the Chief Minister of Puducherry.

He said, 'We walked an extra mile. There should be Leader of Opposition in the Selection Committee. But, now, the leader of the largest Opposition party is a Member.' He made it sound as if he was doing us a favour. You look at the original RTI Act and I invite the Minister's attention to Section 12(2). What does it say? It says that the Chief Information Commissioner and Information Commissioners shall be appointed by the President on the recommendation of the Committee consisting of the Prime Minister, the Leader of Opposition in the Lok Sabha and a Union Cabinet Minister to be nominated by the Prime Minister.

The Minister has forgotten to add the explanation in the original Act. The explanation says, 'for purposes of removal of doubts, it is hereby declared that where the Leader of Opposition in the House of People has not been recognised as such, the leader of the single largest group in Opposition of the Government in the House of People shall be deemed to be the Leader of Opposition.' This is in 2005. And, the Minister tells Lok Sabha that there was no provision for the leader of the largest party and we are making this provision. These are all misleading statements being made.

Edited excerpts from Congress MP in the Rajya Sabha, Jairam he Ramesh, speaking during the debate on the RTI (Amendment) Bill, 2019, on July 25, 2019



The Indian Council for Medical Research's National Institute for Medical Statistics (ICMR-NIMS), in partnership with Population Council, recently launched the National Data Quality Forum. Dr **Balram Bhargava**, Director General, ICMR speaks to **Aditi Phadnis** elaborating on how the platform will bring both data producers and consumers on a common platform and ensure efficient utilisation of the quality data in formulating policies. Edited excerpts:

# 'Aim is to create a space for better data'

Why are we launching another exercise to collect health-data when India already has the Family Health Survey, the NSSO, the Census?

The National Data Quality Forum (NDQF) is a platform where both data producers and consumers will come together on a common platform to discuss and encourage the inculcation of best practices required to generate good quality data and its efficient utilisation for data driven evidence-based policy formulation. This platform will aim to carve out ways for improving the current practices of data collection, collation and utilisation which can help in achieving robust estimates at district, state and pan India level.

Such an initiative is not another data col-

lection exercise but has been launched to usher in standardisation and enhanced quality in the existing ongoing periodic surveys and routine programme data landscape in India. We envision that NDQF will provide guidance in standardising tools for indicators emerging from different data sets. When multiple ministries and decision-making bodies refer to these indicators, we hope it will provide them with a guide for selection and appropriate policy changes. It is important that consumers also understand the quality of data before they start utilising the same. India is a very data rich country, if its administrative data is being questioned, platforms like NDQF are critical in providing the solu-

# If more rigour is sought to be introduced in data then are we to understand that the previous health-related data — that told us, for instance that India was in the grips of a diabetes epidemic — was inaccurate?

The entire exercise of conducting surveys is to ensure we get clarity of estimates for any indicator which can be further inferred to achieve clarity about an entire population. Improvement in data quality is an ongoing process and the National Data Quality Forum will guide in achieving a common goal of improved quality of survey and programme data. Currently, the data for any indicator comes from various sources and sometimes the process of conceptualisation, collection, collation differs. Bringing harmony among various datasets is key and one of the major goals of the Forum.

Every day, there is new data, new technologies that emerge. There is a need to have a robust mechanism and with emerging technologies we can take advantage to create one. For example, earlier the only way to measure height and weight of a child was through the weighing machine and stadiometer (height measuring stand). Now

using artificial intelligence, we can try to measure the same variables using the actual picture of the child. This does not mean that the earlier measurement results were incorrect, but simply signifies that one can reduce the efforts of frontline workers and make results more accurate.

DR BALRAM

**BHARGAVA** 

Director General, ICMR

## As you know, a Personal Data Protection (PDP) Bill is to be introduced in Parliament. How will this dataset tie in with the PDP?

The PDP Bill focuses on creating policies and procedures seeking to minimise intrusion into the privacy of an individual caused by collection and usage of their personal data. It is also true that over the years there have been rapid advances in technology — leading to large volumes of data being collected for decision making — to benefit the population through services.

That said, the NDQF is not a platform for generating new data. The forum will bring in new innovations to improve the data quality and in doing so we will be cognizant of ensuring no breach of personal identifiers takes place. Ethical requirements and protecting personal privacy is the bedrock of NDQF while we create a space for better quality data for policy change.

Who will have access to this data? Data is power — and money. How will you monetise this?

The NDQF envisions following a collaborative

approach built on a partnership model to provide solutions on the challenges faced by both data producers and consumers. As stated previously, NDOF does not aim to collect any new data, but initiate a concerted effort, bringing together key stakeholders to create a common data model approach leading to a one stop data repository for health and other domains of datasets in India. New technologies and innovations will be shared with all stakeholders. The new innovations will be introduced as a pilot in one — two districts to check feasibility. If results are positive, then these solutions can be shared for potential funding under the Corporate Social Responsibility (CSR) bodies and scaled up for a wider implementation and change. We envision working with the young bright minds of India, to share

> solutions to the data challenges we have, and lead the pathway for change.

There are many commercial entities like the pharma industry and medical device manufacturers for whom this data will be a gold mine. Do you agree?

The point of the NDQF is to improve data quality and policy for India so we as a nation surge towards meeting the outline Sustainable Development goals (SDGs) taking everyone along. The goal of the forum is to create an evidence based eco system to promote health and wellbeing. Pillar 4 of the ICMR Strategic Agenda 2030 talks about enabling evidence to policy action by closing the knowledge to policy gap. We expect the forum to build capacities of all stakeholders, and not a limited set to drive this evidence-based ecosystem to develop a standard policy for data quality assessment by various governmental and intergovernmental bodies to generate a dialogue in relevant policy spheres.

# However perfect or imperfect, India's data collection agencies collect masses of data but it lives in silos and one set of data doesn't talk to another. How will your initiative change that?

Often, there are multiple sources of data for the same indicator and the results do not match. This is mainly because they differ in purpose and design, resulting in different physical formats and logical organisation. However, it is confusing to the data consumers/users to understand which data source to consider for specific indicators. Through this initiative we plan to develop a Common Data Model, which will standardise different data sources into a common format, thus helping cross comparison between various data sources and improve its utilisation.

# Coming soon, India's first garbage cafe

In a bid to provide a full meal to ragpickers and homeless, Chattisgarh's Ambikapur is all set to open a cafe that's asking them to come with plastic waste and in return get free food, writes **R Krishna Das** 

apa, why don't you follow the model of London Rubbish Café?" Kamayani exclaimed. Her father, Manoj Singh, thought this would be the perfect idea to give Chhattisgarh's Ambikapur city an unmistakable identity in the country. The theme of swapping plastic waste for food deeply influenced Singh, who is the Commissioner of Ambikapur Municipal Corporation (AMC).

Kamayani, who has cleared class XII this year, helped him with the business model. Without further ado, the project to set up India's first Garbage Café in the city that houses a population of about 200,000 was finalised. The plan will help ragpickers and the homeless to get a full meal in return for collecting a kilogram of plastic waste; and snacks with tea for half a kilogram from the proposed Café.

"My child conceived the plan that I presented it before the Mayor (Dr Ajay Tirkey)," Singh says. Dr Tirkey approved it without

reservation and included it in the agenda of the general body meeting of the AMC held last week. The proposal was passed unanimously. The corporation has made a provision of ₹5,50,000 from its own resources to begin with and will arrange further funds as required.

The AMC aims to target two issues in one go — getting rid of plastic waste and providing food to the needy. About 100 ragpickers and homeless people have been identified in the town, about 450 kms from the Chhattisgarh capital, for the job. The concept

addresses their concern of food security.

Singh says they will watch the response to the project for a month. "If it succeeds, it will be expanded accordingly," he says. The authorities are in touch with small private hotel owners to open sub-centres across the city. "The sub centres will help the beneficiaries to cover shortest distance," he adds.

The Café was scheduled to start from August 1. Singh says it will be delayed slightly and is likely to start operations from August 15. "Initially, we planned to start the project from a small centre; without much fanfare," he adds. After the idea of the Café was noticed and picked up by the national media, they thought of giving the project a new look and launching it in a big way. The new centre, comparatively bigger, is being developed.

Under the plan, beneficiaries coming with the plastic waste will be provided a coupon that will provide meal or snack. "The menu consists rice, dal, one vegetable curry, papad and pickle," Singh says. The snacks include either *samosa*, *poha* or *bhajiya* with *jalebi* and tea.

The proposed Garbage Café will be another leap forward in the cleanliness drive of Ambikapur, the divisional headquarters of coal-rich Sarguja region. The town has created

a niche with the green warriors (as the women group is known).

Clad in green-orange saris and masks, caps, gloves and shoes, these women trudging down the streets with rickshaws painted green and red have begun to represent an inimitable identity. Besides making money out of garbage, they have set a precedent in the Swachh Bharat campaign by making the town waste free.

Under the Central government's Swachh Survekshan 2019

rankings, Ambikapur was declared India's second cleanest city, following Indore in Madhya Pradesh, jumping 15 places from last year. The Solid Liquid Resource Management (SLRM) method, adopted in the state for the first time, has made the difference in solving the problem of urban waste.

THE OTHER

INDIA

The then district collector, Ritu Sain took the initiative while chairing a review meeting



Ambikapur was declared India's second cleanest city after Indore in Madhya Pradesh. A major credit for the same is given to the solid waste management project adopted by the municipal corporation with the help of women self help groups

on February 22, 2015. The local civic body officials demanded 20 acres of land for dumping garbage. Sain suggested instead of dumping the garbage, they should develop a mechanism for managing it.

The entire administration plunged into action, and the journey began. Inspired by an episode from the TV show *Satyamev jayate* and C Srinivasan of India Green Service, the project started within a month with training and capacity building of women self help groups (SHGs). About 1,000 women were trained of which 610 members were selected.

Most of the women belonged to the economically weaker section; a good number of them were widow and divorcees. The 444-member team of women now working in the streets of 48 wards in the city is converting the waste as resource. The job starts early in the morning. Each group comprising 10 members

covers about 300 houses, collects the source segregated waste at door-step every day and deposit them at their respective SLRM center. The work of collection is completed by noon. The organic waste is turned into compost while the inorganic waste is further segregate into 158 categories after cleaning (if required). The city now does not have a dumping area.

While the women's drive has gained national acclaim, it has cast a shadow over the success of Garbage Café. "Since the women groups are collecting waste from doorstep and city is free from the dumps, from where will the plastic waste come from?" senior councillor from the opposition BJP, Madhusudan Shukla says. And even if the ragpickers collect the waste, they would prefer to sell it to scrap dealers. For, cash is more preferable than food for them. But till then, the Garbage Café is getting ready to open.

#### Behind the FaceApp magic

New questions arise about privacy breaches, data misuse

he latest app to take social media by storm raises new questions about privacy breaches, data misuse, and the commercial monetisation of social media. FaceApp has a tiny team of 12 people based in St Petersburg. It uses artificial intelligence (AI) to morph portraits. Users upload digital portraits to a cloud, where these are processed to create likenesses of themselves as they will look (or looked) a decade or two later (or earlier). FaceApp also "gender-switches" portraits, and facial expressions, on request.

It is an intriguing business. The AI must not only apply facial recognition techniques to "recognise" faces; it has to guess how ageing, "youth-ing" and genderswitching could lead to alterations in facial appearance. It must distinguish between happy, sad, and pensive faces. This places it at the cutting edge of face-recognition

In behavioural terms, it has hit a sweet spot. FaceApp is one of the most popular downloads with at least 100 million users. It appears that a lot of people want to know what they will look like a few decades down the line. Many also wish to wallow in nostalgia and look at morphed pictures of themselves as children and quite a few are about gender-switching curious appearances.

This may seem like a harmless, if narcissistic, pastime. However, before FaceApp can apply its magic, it needs portraits to be uploaded by users. Those portraits are associated with other data, like mobile numbers, device models, user-names, locations, birth years, and so on.

The app has a "freemium" subscription model. It claims that 99 per cent of its revenue comes from premium user subscriptions even though only about 1 per cent of users pay to use the service. Every paid subscriber yields some more sensitive data such as credit cards details.

The terms of use are roughly modelled on Instagram, which means that users grant permission for their uploaded shots (including altered versions) to be retained and used by the service provider, permanently, for a broad range of commercial purposes. This permission is royalty-free, and granted by default at the time of

Moreover, there is a boilerplate indemnity protecting the company from being

sued for any loss or injury suffered via the app (such as damaged reputation or embarrassment). The terms of service also mean that users agree, by default, to cover all legal fees for third-party claims against FaceApp arising from their use of the app. It is possible to opt out of these legally restrictive clauses. But that involves reading some very fine print and pro-actively contacting the company within 30 days of installation.

So, FaceApp is sitting on a treasure trove of data given by users. It can easily monetise this. Face-recognition platforms need big data-sets to train algorithms. Every national security agency worth its salt, as well as countless local police forces, is trying to set up efficient facial recognition systems. So the company could simply offer its 100 million-plus portraits to face recognition developers.

Beyond this of course, there is a real fear that the databases could be hacked,

and misused. There are new morphing technologies such as DeepFake, which recombine existing images to create fake new images and malicious videos, which are not easily distinguishable from the authentic. The scope for misuse of such a database is horrifyingly large.

FaceApp's Russian founder, Yaroslav Goncharov, says that it retains only specific pictures uploaded to the cloud for a maximum of 48 hours of processing. Goncharov also says that FaceApp is reviewing its terms of service to soften the legal implications and offer more user-privacy.

Given the success of this app, other face-morphing systems will surely be on offer soon. Users would be well-advised to read the fine print in terms of service with care. This is especially so, in India, which has no specific privacy law. If you are being offered something for free on social media, the chances are payment is being extracted in hidden ways.

# Why the Wage Code is inadequate

It contains numerous positive elements, such as introduction of a statutory national floor-level minimum wage for the first time in India, but it has missed an opportunity to do more

K R SHYAM SUNDAR

he National Democratic Alliance (NDA) government during its first stint (2014-19) took a bold decision to rationalise the numerous labour laws into four codes, of which the Code on Wages was one. The Wage Code, which replaces four laws — the Payment of Wages Act, 1936; the Minimum Wages Act, 1948; the Payment of Bonus Act, 1965; and the Equal Remuneration Act, 1976 - was first placed in Parliament in August 2017. It was referred to the Parliamentary Standing Committee, which submitted its report on December 18, 2018. The NDA returned to power with a massive electoral mandate in May 2019 and promptly tabled the Wage Code — revised in the light of recommendations made by the Parliamentary Standing Committee — in Parliament on July 23, 2019.

The Wage Code contains numerous positives, such as universal minimum wages and a statutory national floor-level minimum wage, both for the first time in the history of labour legislation in India, among other things. But law-makers have missed an opportunity to do more, and could have avoided several costly

The Preamble of the Code should state the substantive aims of the Code, such as preventing genderbased discrimination, extending universal minimum wages, and so on, rather than stating that it is to "amend [and] consolidate the laws relating to wages bonus and matters connected...", which is a procedural act.

The late Prof T S Papola, using National Sample Survey data for 1999-2000, had estimated that the Minimum Wages Act, which provides for coverage of workers in scheduled employments, covered 38.1 per cent of total workers, and even with this restrictive coverage, effective implementation of this law was extremely poor, to put it mildly. Now, the Code proclaims that it covers all workers in the organised and unorganised sectors (which should include agriculture also) and this would mean coverage of at least 450 million workers (excluding government employment from the 461.4 million workers estimated for 2017-18 by the Periodic Labour Force Survey).

By the way, unlike the existing law, the Code does nt specifically mention inclusion of agriculture. Does the government have the wherewithal to effectively ensure realisation of minimum wages for all workers? While it does not mean that the government cannot and should not universalise minimum wage entitlement, this ruthless reality should lead to a gradual strengthening of enforcement, to avoid the risk of it degenerating into political rhetoric.

The Code has diluted the provisions relating to gender-based equity in the labour market, contained in the existing Equal Remuneration Act, (ERA) 1976, and missed an opportunity to do more in this regard. Its original draft included only a provision prohibiting gender-based discrimination in wages, and responding to the Parliamentary Standing Committee's recommendation, it has included prohibition of such discrimination in recruitment only in case of similar work. It has left out existing entitlements concerning conditions of service subsequent to recruitment, such as promotions, training and transfers.

Further, the ERA even conceived ways and means of increasing employment opportunities for women by consulting expert advisory committees. To conceive that gender-based discrimination pertains only to earnings and perhaps at the recruitment stage, and to ignore pernicious forms of discrimination and even



The Wage Code will bring down the numerous existing minimum wage rates

deprivation in many aspects of the world of work is to adopt a narrow approach.

By providing for a mandatory national floor-level minimum wage instead of the earlier minimum wage rate, the Wage Code will surely bring down the numerous minimum wage rates that exist currently. It propagates multiple wage rates by stipulating minimum wages at the national, zonal and state levels ther on the basis of norms like skill (four types), arduousness and hazardous. What is worse, it empowers the government to create more norms and yet expects that the number of minimum wage rates will be kept at a

The Code has diluted the provisions relating to gender-based equity in the labour market, contained in the existing Equal Remuneration Act, 1976

If the objective of minimum wages is to prevent exploitation or poverty alleviation, it should provide not "merely for the bare sustenance of life, but for the preservation of the efficiency of the worker". In other words, it should provide for some measure of education, medical requirements and amenities as well. Why should there be a hierarchy of multiple min-

imum wage rates based on skills? Regional peculiarities could be tackled by a state-level single minimum wage, plus a universal variable cost of living allowance adjusted quarterly instead of half-yearly.

More important is the debate on the determination of the minimum wage, and the fact that the expert committee's "scientifically arrived at minimum wage"

falls far short of the Seventh Pay Commission's level of ₹18,000. This needs urgent resolution lest labour becomes restive. Further, the existing law stipulates revision of minimum wages "within an interval of any five years", while the Code requires revision "ordinarily at an interval not exceeding five years", and the latter may formalise revision only after every five years, if at all it is done religiously by governments

The Minimum Wages Act allows representation on behalf of minimum wage-deprived workers by a legal practitioner, any authorised office-bearer of a trade union, an inspector, or any authorised person chosen by the Authority concerned, which empowers the affected workers considerably. But the Code restricts representation to the trade union of which the affected workers are members, and the inspector. Given low and declining rates of unionisation, this will hurt work-

Finally, the role envisaged for the curiously titled "inspector-cum-facilitator" is quite limited, as the fundamental "power of entry at any time (or even reasonable hours), any frequency and unintimated one" has been removed in the Code, which violates International Labour Organisation norms on this. The inspection system needs reform to remove harassment and corruption, but the Code is making inspectors powerless "visitors".

In short, the Code aims very high but is inadequate in vital respects, which may even militate against the realisation of its grand promise.

 $The \ writer \ is \ Professor, \ XLRI, \ Xavier \ School \ of \ Management,$ 

### Telecom needs to be put back on its feet

**RAJAN S MATHEWS** 

The emergence of a dynamic telecom sector that has taken connectivity to the remotest villages with perhaps the lowest tariffs in the world has been one of the key success stories for India in the 21st century. Seamless mobile connections along with robust data have meant that a host of services, including those from the government, are riding the airwayes and making lives better and simpler for every Indian. Uninterrupted telecom services are as critical as power and fuel supplies for India's rapidly expanding economy, which is tipped to touch \$5 trillion in the next few years.

The telecom industry has invested over ₹10.44 trillion over the years to take mobile services to every Indian at rockbottom tariffs. The same industry that has emerged as the backbone for several other sectors, including start-ups, is now struggling to stay afloat, due to multiple challenges. The combination of high levies, double taxation and rising debt has meant that telecom is now under tremendous financial stress with doubts arising over its viability and sustainability. Even as tariffs have continued to head southwards, the need for regular and sizeable investments for upkeep of the network and telecom infra-

structure has meant that debt on the books of telecom operators has risen nearly 10-fold, from a mere ₹0.8 trillion in FY2009 to ₹7.7 trillion in FY18.

The telecom industry is seeking favourable regulatory initiatives and policy reforms that will help revive it. The once thriving sector, which provided jobs and brought returns to all stakeholders, is now in a dismal state. It is in dire need of an efficient blue

print for growth, minus uncertainties, multiple cascading taxation and various anomalies, so that it regains its past glory. The industry is looking to adopt a growth framework that takes into account recommendations made by the regulator and negates the reasons for the current financial distress. It is crucial for policymakers to devise effective strategies that can alleviate the industry's woes, including provision of incentives on the lines of concessions for other sectors.

The return on investment of the private sector has also plummeted from a healthy 14 per cent to a meagre one to two per cent. While falling tariffs are benefiting customers, the industry is struggling to make ends meet. In just over 18 months, listed players' market capitalisation plummeted to ₹2.03 trillion on July 23, 2019, from ₹2.59 trillion on December 29, 2017. Ballooning debt has meant that interest payments as a percentage of EBITDA rose to nearly 71 per cent in FY19. The financial stress can be gauged from

the fact that the Reserve Bank of India, leading financial institutions and credit rating agencies have raised a red flag over the sector's viability. In February 2019, Morgan Stanley and Moody's downgraded India's telecom sector.

As a result, the Indian telecom industry, which once comprised more than a dozen established players, is now left with only three large players, courtesy the consolidation that happened over the last one year. Incapacitating hyper-competition leading to significantly squeezed margins, rising debt and falling revenues, is the reason behind the sector's acute financial distress today. Such market dynamics, where a few players dominate, can also leave consumers vulnerable.

Despite such worrying numbers, the telecom sector has continued to contribute to the exchequer in the form of taxes and levies such as licence fees, spectrum usage charges and revenue sharing. In fact, the telecom sector is one of the largest taxpayers, contributing ₹10,000 crore every year to the government treasury, though that too has come under pressure now owing to falling revenues. Telcos, in addition to building a world-class telecom infrastructure, have also spent around ₹76,000 crore in spectrum auctions to transition from 2G to

3G and 4G services. The Hyper-competition, cumulative payout at leading to spectrum auctions is a significantly whopping ₹3.68 trillion since 2010. squeezed margins, rising debt and falling revenues, is the reason behind the telecom sector's acute financial distress today. Mammoth

investments have

taken a further toll

Apart from mammoth investments that went into the successful rollout of the 4G network, duplication of taxes and levies took a further toll on the financial health of telecom players. The Indian telecom sector pays 29-32 per

cent in terms of taxes and levies — one of the highest in the world. Chinese companies, on the other hand, pay just 11 per cent. With the commercial rollout of 5G expected to begin by early next year, the requisite spectrum will come at a very high price, further crippling the sector financially.

In light of the challenges, the industry is asking for a practical policy roadmap designed to revitalise the sector and the allied ecosystem. The need of the hour is to take brave decisions, as the government did in 1999, when the sector shifted to a revenue sharing regime. The result was that telecom saw explosive growth and the government ended up earning more revenue than in the fixed licence fee regime. It's time to get the industry back on its feet, so that it can become a major contributor to fulfilling the Digital India vision and building a nation that is digitally and economically robust.

The writer is Director General, COAI

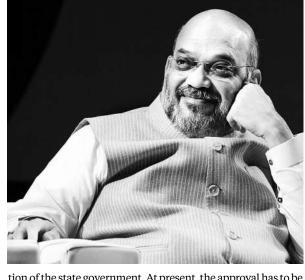
#### **▶** OTHER VIEWS

#### Latest amendments to NIA Act can be misused

#### Government has obligations to preserve fundamental rights

The idea of designating an individual as a terrorist, as the latest amendments to the Unlawful Activities (Prevention) Act propose to do, may appear innocuous. However, designating an individual as a terrorist raises serious constitutional questions and has the potential for misuse. However, there is no set procedure for designating an individual a terrorist. The absence of a judicial determination may render the provision vulnerable to invalidation. There ought to be a distinction between an individual and an organisation, as the former enjoys the right to life and liberty. The likely adverse consequences of a terrorist tag may be worse for individuals than for organisations. This makes it vital that individuals have a faster means of redress than groups. A wrongful designation will cause irreparable damage to a

person's reputation, career and livelihood. Union Home Minister Amit Shah's warning that his government would not spare terrorists or their sympathisers, and his reference to "urban Maoists", are portentous about the possibility of misuse. The provision to empower the head of the National Investigation Agency to approve the forfeiture of property of those involved in terrorism cases obviously overrides a func-



tion of the state government. At present, the approval has to be given by the state police head. This significantly enhances the scope for misuse. While none will question the need for stringent laws that show "zero tolerance" towards terrorism, the government should be mindful of its obligations to preserve fundamental rights while enacting legislation on the subject.

The Hindu, July 26

#### **Reconsider sovereign bonds**

#### They entail undue risks

According to a Bloomberg report, the Government of India is planning to raise \$10 billion in its first overseas bond sale by October. The decision to resort to this route for raising capital was announced in the Budget earlier this month. There are both pros and cons of using this route to raise capital. The biggest benefit of such bonds is that interest rates in international markets are much lower than domestic markets. Such borrowing also does not lead to the government crowding out the private sector from a finite, and decelerating, pool of domestic savings. The biggest risk is that such borrowings have an inbuilt unpredictability because of foreign exchange movements. Because the debt has

to be repaid in foreign currency out of domestic resources, a depreciation in the Indian rupee vis-à-vis the currency in which the debt is denominated can lead to a spike in

domestic debt burden. It is because of these downside risks that a wide gamut of economists and policymakers, including three former governors of the Reserve Bank of India, has advised against this route to raise investible resources. Therefore, it is necessary that the government engages with these voices and tweaks its policy decision to allay their concerns. It is in our best interests to continue avoiding riskier forms of engagement with the global economy.

Hindustan Times, July 26

#### A flawed approach

He vowed to bring such a law

#### Andhra Pradesh's divisive precedent

during his padyatra as an Opposition leader, and now that he is the Andhra Pradesh Chief Minister, YS Jagan Mohan Reddy's government is set to make it mandatory for existing and upcoming industries in the state to ensure 75 per cent jobs for local candidates within three years. In case no suitable candidates are available, employers will have to train and engage locals within three years in collaboration with government agencies. The first-time CM cannot be faulted for his intent ensuring jobs for the large unemployed workforce, particularly in the rural belt, and living up to his promise. Reservation and imposing such constricting restrictions in an already circumspect

industrial climate, however, can only impede growth, not generate jobs. It is an embarrassing truth for generous state governments that big-ticket projects which are projected as life-altering for locals, whose land is often acquired, only end up providing numbered low-income jobs.

The erroneous economics apart, the divisive concept encourages inter-state, intercommunity, inter-racial tensions, discourages merit, and challenges the "one nation" constitutional right. Jobs are at the centre of the debate; state governments have little to offer on their own, so nudge private players, form pragmatic partnerships. Don't bring the system down.

The Tribune, July 26

# SUNDAY, JULY 28, 2019

**IT TAKES A** lot of courage to speak in a House of Parliament where the Opposition benches are empty. That is precisely what the Finance Minister, Ms Nirmala Sitharaman, did on July 23, 2019, in the Rajya Sabha! She piloted her maiden Finance Bill, the Rajya Sabha (minus the Opposition) 'considered and returned' the Bill, and all is well with the Indian economy. Congratulations, Finance Minister!

Like there were serious questions about the Budget, there are serious questions about the Finance Bill.

#### **Brazen Violation**

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Someone will definitely challenge the Constitutional validity of Finance (No.2) Bill, 2019. I am amazed that the government is willing to risk its most important Bill on finance and economy just to avoid a debate on questionable amendments to some non-financial laws!

#### From Trot to Gallop!

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#### **GROWTH RATES IN %** 2018-19 2019-20 7.16 23.25 Income Tax -8.60 32.20 Customs Union Excise 0.06 15.55 **GST** 3.38 44.98

How does the government propose to achieve these high revenue targets? Especially when the IMF, ADB and RBI have reduced their estimate of India's GDP growth rate to 7% and that of the world's growth rate to 3.2%. Every economist who has knowledge of the Indian economy (the latest is Dr Kaushik Basu) has warned of a further slowing down — that is a continuation of the trend witnessed in the four quarters of 2018-19 (8, 7, 6.6 and 5.8%). How does the government expect that revenue collections will gallop to high double-digit rates after the single-digit trot of 2018-19?

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# Unconstitutional and unrealistic



Finance minister Nirmala Sitharaman

dinary powers upon income tax, GST and other tax officers. There will be more notices, more summons for personal appearance, more arrests, more prosecutions, more penalty orders, more harsh assessment orders, more summary dismissals of appeals — in short, there will be more harassment of the taxpayer.

#### Denying States' Share

Thirdly, are the states getting their share of the taxes? The Fourteenth Finance Commission (FFC) awarded 42% of gross tax revenue (GTR) of the Central government to the states. The FFC report was accepted. The share of 42% became a constitutional right of the states and a constitutional obligation of the Central government. The FFC Award is applicable

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**INSIDE** TRACK

**COOMI KAPOOR** 

#### 'Congress' heads BJP

An embarrassing secret from his

past for the BJP's new Uttar Pradesh chief, Swatantra Dev Singh, is that his parents had actually named him Congress Singh. The first name 'Congress' was hastily changed once Singh joined the BJP. If it is a bit confusing that the former 'Congress Singh' now heads the BJP in UP, it is also true that descendants of most of the old

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#### Rajiv memorial row

Shortly after Rajiv Gandhi's tragic death, the Gandhi family had a huge row with then prime minister Chandra Shekhar over the location of his memorial. Chandra Shekhar suggested that the proposed memorial be within Shakti Sthal, Indira Gandhi's samadhi. However, Sonia wanted Rajiv's commemoration site to be separate from his mother's since Rajiv was a leader in his own right and should not be remembered merely as Indira's son. But Chandra Shekhar was adamant that he would not permit a plot to be cut out from Lal

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#### No name-calling

After his defeat in Patna by Law Minister Ravi Shankar Prasad, Shatrughan Sinha did not show his face in Delhi till earlier this month, when fellow BJP rebel Yashwant Sinha's book was released. In fact, after the parliamentary poll results, Sinha did not wish his rival in person but simply tweeted his congratulations, describing Modi as a friend, Prasad as a family friend and Amit Shah as a master strategist. Incidentally, though rivals, neither Sinha nor Prasad mentioned each other's names during the Patna campaign. For Prasad, it was his first Lok Sabha contest and he and his wife Maya were on the move from 6 am. A twotime Lok Sabha MP, Sinha only left Maurya Hotel, where he was camping, for the campaign trail past noon, after his lunch.

# No more tears

Ireland's golf prodigy Shane Lowry delivers a magnificent comeback win at The Open





weatherman on the radio after predicting gusts of 15 to 25 miles per hour and moderate rain on Sunday last week. As the final round of the Open Championship got underway, veteran Scottish golfer, Sam Torrance, sitting in the commentary box at the Royal Portrush Golf Club, keenly observed the dark clouds moving in from the North Atlantic, and chuckled wryly. "Either the forecaster doesn't play golf, or he's a member (of Royal Portrush Golf Club)." The conditions, that would qualify as inclement in pretty much any part of the world except Ireland, (and perhaps Scotland), typified the British Open's moniker of 'the true test of golf,'—a claim that buttresses the logic of why the oldest championship in golf is definitively referred to as 'The Open Championship.' Links golf, where it's been played along the coast for centuries, is all about man versus the elements, and therefore, man, against his own

follies and strengths.

The Dunluce Links at Royal Portrush provided the heady mix of tradition and history that the Open Championship is steeped in. A course that has never been outside the Top 100 courses of the world ever since rankings began, and which has been stymying golfers for close to 150 years continues to rely, unlike modern layouts, on unpredictable weather conditions, rather than mere length, to challenge players. Sidelined as a venue for the Open on account of volatile political conditions and social unrest in Northern Ireland since 1951, Royal Portrush is part of the milieu where some of the world's finest golfers cut their teeth in the game. These include major winners Darren Clarke, Rory Mc Ilroy, Graeme Mc Dowell, and now, as the entire world knows—Shane Lowry.

Even before Lowry's magnificent performance to win the Open last week, the Ulsterman had signalled a return to form bywinning the HSBCAbu Dhabi Championship on the European Tour in January this year. It was only his second victory on the continental tour ever since he turned pro and came five long years after he won the Portugal Masters in 2012. Not that he was winless throughout—in 2015 he won



Golfer Shane Lowry, a prodigy who stunned the golfing world when he won the Irish Open as a 20-year-old amateur in 2007

the WGC Bridgestone Invitational on the PGATour. It hasn't been a groundbreaking career, but certainly a successful one. Why then, you'll ask, was Shane Lowry dubbed an underachiever until the win last week? Ask any Irish golf fan and he'll tell you: Lowry is no ordinary golfer. A prodigy, a boy who stunned the golfing world when he won the Irish Open as a 20-year-old amateur in 2007, and was expected, to achieve great things when he turned pro.

While the friend he grew up playing with— McIlroy—would go on to deliver on that promise, Lowry's fortunes never quite lived up to the hype.

In 2018 at Carnoustie, Lowry missed his third consecutive cut at the Open Championship. He spoke at the press conference last week about how he went to his car and wept. The slide had begun since he lost his nerve at the US Open in 2016. Leading by four strokes going into the final

over and finished way down the leaderboard. At Portrush last week, he remarked  $to \, his \, cad dy after \, the \, end \, of \, the \, third \, round$ afterseeingyetanotherfourshotlead, ... at least I won't have to answer any questions about Oakmont, I'm four ahead going into the final round of a major." In a sense the wry remark was typical of someone who's been beaten down by golf. Not that Lowry need to be humbled—a dyed-in-the-wool traditionalist, and polite to a fault, Lowry has no airs about him. Playing with Phil Mickelson in the opening two rounds, Lowry reportedly told the American, "My game hasn't really been where it should be for some time now. And it's been an honour to play with you today." You just don't see that sort of niceness in pro golf anymore.

round at Oakmont, Lowry crashed to a six

Lowry is different in other ways too: most players give practised responses to standard queries in the press room. Not Lowry: asked at the end of the third round about what he's going to be thinking about that night, Lowry didn't repeat any platitudes about 'staying in the moment." Obviously I'll go to bed thinking about holding the Claret Jug," he said. "It's only natural, isn'tit? There's no point in saying I'll go out and enjoy myself tomorrow because it's going to be a very stressful and very difficult day. So I'm going to take the bad shots on the chin and I'm going to take the good shots and try to capitalise. I'm just going to be myself and play my game and see where it leaves me."

As it turned out, acknowledging those nerves helped Lowry overcome them. He started shakily but grew in confidence as the day wore on; the shot of the day came when he stiffed his 4-iron pin high on 'Calamity'—the dreaded par-3 16th hole at Royal Portrush. At the end the man waltzed to victory with one of the biggest margins ever recorded in Open history-

five strokes. For those not aware of Ireland's golfing tradition, the very vocal gallery that swelled to a quarter of million people, came as a bit of a surprise. Golf is an all-Ireland sport, much like rugby and Irish Football—that means it's played on a national scale, with school, university and county teams competing regularly against each other with their legions of supporters. That's why it looked like all of Ulster landed up on Portrush last Sunday—umbrellas, rain capes and all. And they found their hero all right. For an Ulsterman to win at home is beyond a dream come true. But this time, unlike the time he lost at Oakmont, Lowry had less ambition and more equanimity."... I felt at the time in Oakmont my golf just meant a lot more to me back then than it does now. I'm not saying that it doesn't mean everything. It's my career. But I've got certain things in my life that make it different. I've got family now. No matter what I shoot, tomorrow my family will be waiting for me."

Agolfer, Meraj Shah also writes about the game

Chairman of the Board: Viveck Goenka, Managing Editor: Shobhana Subramanian\* (\*Responsible for selection of news under the PRB Act) © Copyright: The Indian Express (P) Ltd. All rights reserved. Reproduction in any manner, electronic or otherwise, in whole or in part, without prior written permission is prohibited. The Financial Express (P) Ltd. All rights reserved.



**PCHIDAMBARAM** 

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> *Website:* pchidambaram.in @Pchidambaram\_IN

#### **INSIDE TRACK**



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# **OUT OF MY MIND**



MEGHNAD DESAI

CHANDRAYAAN 2 has been launched and with that, India joins the small select club of nations which have major space missions on their CV. It is much more important than even the nuclear capability. It shows that India is able to meet the high standards of space technology.

How has India done this? Gandhiji was against modern machinery, modern medicine and the whole Western civilisation as he explained at length in his first major

Indira Gandhi's samadhi. However, Sonia wanted Rajiv's commemoration site to be separate from his mother's since Rajiv was a leader in his own right and should not be remembered merely as Indira's son. But Chandra Shekhar was adamant that he would not permit a plot to be cut out from Lal Bahadur Shastri's samadhi and pointed out that he had earlier turned down Ajit Singh's request for space for Charan Singh's memorial at the rather neglected Shastri samadhi site. The incident is mentioned in the just released biography of Chandra Shekhar, co-authored by his reverential disciple, Harivansh, now Deputy Chairman of the Rajya Sabha.

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# Thy Budhni matters



**SARAH JOSEPH** സാറാ ജോസഫ്

IN 2015, an extraordinary seminar was conducted in Chalakudy under the aegis of the River Protection Forum. It was a seminar to discuss the impact of the proposed hydroelectric project at

At the seminar, I heard about Budhni for the first time from poet and political activist Civic Chandran, who had written a poem on the same. He asked me if I could elaborate it into a story. It was a theme that touched me deeply. It stayed in my mind for long. Chandran found the story of Budhni in an article, 'Recovering Budhni Mejhan from the silted landscapes of modern India', by Chitra Padmanabhan, published in *The Hindu* on June 2, 2012. I read the article several times and went through a lot of studies related to it.

Crores of people have been uprooted from their soil for mega development projects before and after Independence. It was a disturbing thought that their stories had gone unrecorded. According to data with the United Nations Commissioner for Refugees, people have been displaced for development projects on a large scale in India. Since 1947, 60-65 million people have been uprooted, including 40 per cent tribals, and 40 per cent Dalits and marginal farmers, and activist Medha Patkar had sought UN intervention.

On December 6, 1959, then Prime Minister Jawaharlal Nehru had gone to inaugurate the Panchet dam across the Damodar river. A girl chosen by the Damodar Valley Corporation (DVC) welcomed the PM with a garland and tikka on his forehead. The 15-year-old girl was ostracised by villagers later, citing violation of Santhal tribal traditions. She was expelled from the village. Budhni was

her name. Nehru had made the labourer girl who used to carry bricks and mud for the construction of the Panchet dam inaugurate the dam. But after the photo session, she had ceased to be a story for newspapers.

DVC also dismissed her from her job.



Illustration: Suvajit Dey

perhaps because of the talk among villagers that she was "Nehru's wife"! How she lived her life after the incident wasn't anyone's concern.

Budhni started taking shape in my mind as a symbol of crores and crores of people who have been drowned in memory during nation-building, mega projects, including dams, and companies such as DVC and Bharat Coking Coal Limited.

Even now, people in 11 villages on the eastern borders of Jharkhand are fighting against the acquisition of their fertile land for construction of a thermal power plant by the Adanis. The realisation that the story of Budhni is also the story of uprooted people is what motivated me to write a novel on her. Her story should not have gone unwritten. I had to develop it into a story of the Santhal tribe as well — a population that lives peacefully in areas that are fertile and rich in resources, without exploiting them.

In her article, Padmanabhan mentioned her attempts to meet Budhni. "All this while, I had debated the merits of meeting Budhni. Last week, through a friend's friend in Ranchi I got news that Budhni died last year, disconsolate to the end. She was in her late 60s," she writes.

In the third week of November 2018, I reached Jharkhand. It was a pilgrimage through the memories of Budhni, who I believed was dead. Also to meet people related to her and gather all available information on her.

I felt Budhni had to be revived from the criminal forgetfulness of the country; she wasn't just a mud block that was broken during the great nation-building process. I felt that she should rise again in the nation's memory along with hundreds of villages, vast farmlands, forests and temple complexes that were drowned in the Panchet reservoir.

Budhni is a novel based on a news article. It is not her life story or a historical novel. I started writing it as a story of Budhni who was dead. While writing it, I took utmost care on how to blend history with fiction, and how to merge news and fiction. The life Budhni lives in my novel may not be the life of the original Budhni. Original Budhni's life wasn't what my character called for. That I left to imagination and possibilities. My assessment is that imaginative power will help make historical facts truthful.

In the course of researching the novel, I discovered that Budhni, now in her 70s. was alive. It was purely coincidental that I got to meet her as well. I could experience the same wonder and happiness I felt all through the writing of this novel.

Sarah Joseph is a renowned Malayalam fiction writer. Budhni will be published in September. Translated from Malayalam by Yamini Nair

# the UK does not have an antediluvian

If India had the guts to modernise its

India requires 10% per annum growth of industrial output if this ambition is to be realised. Narendra Modi has to offer the bold leaders needed to take India out of the low-lying areas of industrial stagna-

A country which can become a leader

#### **FIFTH COLUMN**



TAVLEEN SINGH

# Bad tidings from Mumbai

AS SOMEONE who has vivid memories of our bleak socialist decades, alarm bells start going off in my head when I see the smallest signs of socialism. They have been going off loudly since the Budget because a pall of despair has descended over Mumbai. It is as if businessmen, big and small, have given up all hope of India ever becoming a country in which they will be able to do business without some regulator, inspector or corrupt official breathing down their necks.

Things have been bad for a while. This is why, according to the Global Wealth Migration Review, 5,000 Indian millionaires fled the country last year. But, there was hope that with the massive mandate that Narendra Modi has just won he would come up with a Budget that would revive private investment. It has been dangerously stagnant for so long that the Economic Survey for 2018-19 said that reviving private investment was critical. The Finance Minister said she wanted 'animal spirits' to return, but how can this happen with corporate taxes going up to more than 40 per cent? When the Finance Minister says proudly that high taxes will affect less than 5,000 rich Indians, the signal she sends is that rich Indians deserve to be penalised.

She seems to have forgotten that it was this handful of rich Indians who transformed India from an economic backwater into a country that now dares to dream of becoming an economic superpower. It was this handful of rich Indians who created world-class airlines, hotels, hospitals, schools, airports and consumer goods. Remember for a minute what socialist India was like. Remember a time when the only domestic airline was so badly run that we used to joke about how Indian Airlines had more employees than passengers. Remember a time when Doordarshan was the only TV channel, when the only jobs available were in government offices, when airports looked like tin sheds, when hotels reeked of shabby service, when everything in India was second rate. Having been part of the 'Khan Market

gang' since my childhood, I remember well what it looked like in socialist times. It consisted of a handful of scruffy shops that sold such shoddy goods that 'Made in India' became a guarantee of poor quality. It was only after P V Narasimha Rao ended the licence raj that things began to change. Today Khan Market has shops that sell Indian goods of such high quality that my foreign friends come to India to shop. Personally, I cannot remember when I last felt the need to buy something that was not Made in India.

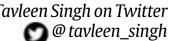
All this could change if the Prime Minister does not discover soon that 'black money' is not India's biggest economic problem. This obsession with black money has brought back an inspector raj that is like a blight. Instead, what he should do is set up a task force in the Finance Ministry to investigate why black money exists in the first place. He might discover that it is one of the legacies of socialism. In socialist countries, taxes are usually so high and unreasonable that even salaried middle-class people are

forced to evade them.

To return, though, to those 5,000 Indians that will now be paying crippling taxes, may I stress once more that it is because of them that some things in India changed from second-rate to world-class. It is they who create most of India's wealth, and if they stop being able to do this, where will the Prime Minister find the money to finance the welfare schemes that persuaded voters to give him this huge mandate? Where will he find the money to make our cities look like real cities instead of slums? It is not his fault that they look so bad. It is not his fault that national highways collapse when the rains come. It is not his fault that socialism kept millions of Indians mired in hideous poverty for such a long time. What is his fault is that he has not done enough to change course.

In the speech he made in Varanasi after the Budget, he warned people not to be misinformed by those who went about spreading despair. I do not count myself among them, but cannot emphasise enough that the pall of despair I detect in Mumbai is real. Since the Budget, I have had conversations with a whole range of people, from small shopkeepers to big businessmen, and have not met a single person who said confidently that the future looks bright and hopeful. Most said that what worried them was that the Budget that the Finance Minister brought to Parliament in that bright red bag, oldfashioned, Indian-style, indicated to them a return to old-fashioned, Indian-style socialist policies. This is what set alarm bells ringing in my head.

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# Moon Struck, and more of it

book, *Hind Swaraj*. Left to him, India would never have industrialised. It was the younger generation of Nehru, Ambedkar and Savarkar who wanted to westernise and modernise India. Subhas Chandra Bose was of the same view.

Nehru wanted to industrialise India but without the help of private business. As he said to JRD Tata, he thought profit was a dirty word. Business people were shunned. The government took the view that profits of private business were due to monopoly and restrictive practices. In Japan and South Korea, business and government were partners to make the country prosperous. It was a very costly ideological stance which kept India poor for

longer than necessary. The exception was in science and

technology. It was the genius of Vikram Sarabhai which launched India on the fast track, which has brought us Chandrayaan.

Sarabhai came, of course, from one of the top industrialist families. Amba Lal Sarabhai and his sister Anasuya had been captivated by Gandhiji. Vikram was not an industrialist but a scientist. He saw that India could leapfrog by using the latest technology of television and of space rocketry.

It was a lucky break for India that Nehru listened to Sarabhai. People complained that when Indians lacked basic amenities, why were we going for space? Such a utilitarian argument may seem attractive but it is false. A country has to take the untrodden path if it is to reach the top.

India escaped from the tyranny of government-controlled telephones and TV only thanks to the leap into open economy, privatisation of telephony via mobile telephones and private TV channels. It was a combination of enlightened public policy, private entrepreneurship of Indians and foreign capital investing in India which cracked the ceiling.

If India leads in financial transactions technology, in online payments system, in e-commerce, it is no thanks to any Planning Commission.

There used to be constant fear of the return of the East India Company and a virulent xenophobia. Now India is a major capital exporter to the UK and Indian capital is the largest employer of British manufacturing workers. That is because

labour hiring and firing policy, as India adopted in the name of protecting workers' rights.

labour laws and if the trade unions could be made aware that liberal labour laws will expand union membership rather than reduce it, we may make the final leap towards a \$15 trillion economy by 2030.

tion and aim for the heights.

in space flights can scale any heights.

The giant scale of the shift needed to BS-VI can be gauged from the production base. • GETTY IMAGES/ISTOCKPHOTO

#### Cleaner air, higher costs?

What will the move to Bharat Stage VI mass emission standards for various classes of motor vehicles by April 2020 entail?

G. ANANTHAKRISHNAN

The story so far: The Union Government, through an order dated September 16, 2016, mandated Bharat Stage VI (BS-VI) mass emission standards for various classes of motor vehicles throughout the country from April 1, 2020, leapfrogging BS-V. While this will lead to better air quality in the short term, it also means higher vehicle prices and costs. For the automobile industry, this has meant accelerated development of all related technologies and components and big investments.

#### What makes BS-VI fuels cleaner?

As per Bureau of Indian Standards (BIS) norms for upgraded fuels, (IS: 2796 - petrol and IS: 1460 - diesel), sulphur content is reduced to 10 mg/kg max in BS-VI from 50 mg/kg under BS-IV. This key reduction in sulphur makes it possible to equip vehicles with better catalytic converters that capture pollutants.

BS-VI confers several benefits, the most important of which is limits set on Particle Number (PN) for engines, a reference to direct injection engines that emit more particulates but are more efficient and release less carbon dioxide. Also, there are lower limits for hydrocarbons (HC) and nitrogen oxides (NOx) in diesel engines and lower Particulate Matter limits for both petrol and diesel engines.

#### What impact will it have on consumers?

Prices are the biggest impact factor both for commercial and passenger vehicles under the BS-VI regime, with one industry research estimate putting the increase at up to ₹20,000 for petrol cars, ₹65,000 to ₹90,000 for diesel cars, going up to ₹2.25 lakh for heavy commercial vehicles. Even two wheelers, requiring fuel injection technology, will witness a price spike of ₹3,000 to ₹6,000. However, these estimates are made a year ahead of the actual roll-out of BS-VI fuel nationwide, and the

In the run-up to BS-VI, sales growth of vehicles has witnessed a slump due to several factors, including economic conditions, weak rural demand and the impending shift to higher standards

auto industry may opt to absorb some costs and pass on the rest to the consumer. In terms of fuel, the oil marketing sector has said the retail price increase for BS-VI fuel could be anything from a few paise per litre to ₹2.

The giant scale of the shift needed to BS-VI can be gauged from the production base: the Society of Indian Automobile Manufacturers (SIAM) says the industry

produced 30,915,420 vehicles ranging from twowheelers to commercial vehicles in the year ended April 2019, with an annual growth of 6.26%.

Maruti Suzuki, India's biggest carmaker, for example, had to transition 16 models and 50 applications with tests across 60 lakh km. It decided to remove diesel models under the BS-VI category. Mahindra & Mahindra invested about ₹1,000 crore and several-fold investments were made by its suppliers.

But Mahindra, Tata and several other companies said they would go ahead with diesel line-ups. Hyundai India which exports almost all its models does not face issues with migration and the company is said to be fully ready for BS-VI. Some new manufacturers such as Kia are entering the market with BS-VI vehicles.

In the run-up to BS-VI, however, sales growth of vehicles has witnessed a slump due to a combination of factors, including economic conditions, weak rural demand and the impending shift to higher standards.

As per June 2019 sales data released by SIAM, automobile companies sold 16.28% fewer passenger vehicles compared to June 2018. There was a 23.39% drop in the sale of commercial vehicles in the same period. Two-wheeler sales dipped by 11.70%.

#### What about the BS-IV vehicles already manufactured?

Since there is no bar on the operation of existing vehicles beyond the cut-off date for BS-VI, that is, April 1, 2020, the inventory of personal and commercial vehicles will continue to be sold. This is significant for the commercial sector, which involves higher investments. After the deadline, however, all new vehicles sold must comply

A spike in sales of BS-IV vehicles is expected closer to the festival season, when buyer sentiment turns positive, and the industry prepares to liquidate its stock of soon-to-be obsolete vehicles. The outlook is unclear for heavy commercial vehicles due to recent changes that enable higher freight loading, and depressed demand for

The availability of higher financing through banks after the move to recapitalise them, and higher liquidity in non-banking financial companies could also influence sales.

#### What will the shift mean?

As of January 1 this year, there were 57,468 retail fuel outlets of the oil marketing companies across the country. Although BS-VI fuel was introduced in the national capital last year, and extended to some contiguous districts in neighbouring States, the release of the higher grade fuel in all the pumps in the country has to be simultaneous. The auto industry wants it done by February. The cost of upgrading refineries to produce the higher-quality fuel is estimated at between ₹25,000 crore and ₹30,000 crore.

# Why does India say no to Kashmir mediation?

What are the historical reasons why third party mediation is avoided by the government? Will the status quo on India's Kashmir policy remain?

SUHASINI HAIDAI

The story so far: On Monday, U.S. President Donald Trump claimed that Prime Minister Narendra Modi had sought mediation in Kashmir when they met during the G-20 summit in Osaka. In Parliament, External Affairs Minister S. Jaishankar categorically said that Mr. Modi did not request Mr. Trump to "mediate or arbitrate" on the Kashmir issue. He said India remains committed to discussing all issues with Pakistan bilaterally.

#### What is the backstory on the U.S. offer of mediation?

In 1993, the new administration of U.S. President Bill Clinton decided to wade into the Kashmir issue, indicating repeatedly that it wished to mediate between India and Pakistan. At the UN General Assembly in September, Mr. Clinton referred to resolving "civil wars from Angola to the Caucasus to Kashmir," and a month later, the U.S. Assistant Secretary of State Robin Raphel questioned the validity of Kashmir's 'Instrument of Accession' during a press briefing. At a recent event, the Union Minister for Housing and Urban Affairs, Civil Aviation (and Minister of State, Commerce and Industry), Hardeep Puri, recounted how India issued a strong protest. Mr. Puri was then the Joint Secretary (Americas), and made the call to an official in Washington with a carefully but strongly worded message cleared by Prime Minister P.V. Narasimha Rao. Mr. Puri said, "We read the riot act to the U.S. administration that time, and succeeded remarkably in drawing a red line on the issue [of mediation].'

In fact, until Mr. Trump dropped a bombshell during his joint press appearance with Pakistan Prime Minister Imran Khan on Monday, where he claimed that Mr. Modi had asked him to "mediate or arbitrate" on Kashmir, no U.S. leader has publicly crossed that line in 25 years. Responding to a swift and angry denial from the Ministry of External Affairs, the U.S. State Department seemed to backtrack from the allegation by saying that Kashmir remains a "bilateral issue", but maintained that the U.S. "stands ready to assist" any India-Pakistan talks.

Why does India refrain from taking help? India's firm position against mediation on Kashmir or any

other issue stems from several reasons, most notably a historical suspicion, since the 1950s and 1960s, as mediated talks by the United Nations and World Bank, the United States, the United Kingdom and Russia have been unsuccessful in resolving the issues between India and Pakistan. At best, the attempts have worked for diffusing tensions, or calling off hostilities at the Line of Control and the International Border, but not in terms of their rival claims over Jammu and Kashmir. Another reason is that India sees itself as a regional leader, and does not require any assistance in sorting out its issues with other regional countries. In addition, the widespread belief is that mediation favours the weaker party by levelling the playing field, and with its stronger



Milestone: Prime Minister Indira Gandhi and Pakistan President Zulfikar Ali Bhutto, in Shimla in 1972. • THE HINDU

conventional and non-conventional military prowess, India has seen no significant gain from bringing a thirdparty into its 70-year-old conflict with Pakistan.

#### When did the UN try to mediate?

The early attempts at mediation by the UN were made after India took its complaint against Pakistan's forced occupation of parts of Kashmir (PoK) to the UN Security Council on January 1, 1948. The UN then set up the United Nations Commission for India and Pakistan (UNCIP) which proposed mediating a resolution along a three-point action plan: Pakistani demilitarisation of the

The U.S. State department seemed to backtrack from Mr. Trump's allegation by saying that Kashmir remains a "bilateral issue", but maintained that the United States "stands ready to assist" any India-Pakistan talks

Kashmir region, followed by Indian reduction in military presence, and a proposed final resolution by an impartial U.N. administered plebiscite to "determine the wishes of the Kashmiri people" The deal never got off the ground as Pakistan never agreed to demilitarise, and India under Prime Minister Jawaharlal Nehru made it clear that a plebiscite would never be accepted. Where the UNCIP was successful was

in mediating a ceasefire in 1949, and negotiating the geographical location of the cease-fire line which would be monitored by the United Nations Military Observer Group In India and Pakistan (UNMOGIP). Individual U.N. representatives continued to visit both sides from 1949 to 1953 but failed to improve the atmosphere for a resolution, or to convince either side to demilitarise the two sides of the LoC. The first United Nations Representative for India and Pakistan (UNRIP) appointed to mediate the dispute was Sir Owen Dixon, an Australian jurist, who was followed by Frank Graham, an American diplomat, who gave up after his proposal was rejected by

New Delhi and Karachi (then the capital of Pakistan) in April, 1953. The only exceptions to this dismal record were the 1960 World Bank guaranteed Indus Water Treaty, and a territorial agreement on the Rann of Kutch, mediated successfully by the British government in 1965. Soviet Premier Kosygin also moderated between Prime Minister Lal Bahadur Shastri and Pakistani President Ayub Khan to broker the 1965 Tashkent peace agreement, but the treaty has always been marked by suspicion and doubts, tainted by Shastri's sudden death at Tashkent.

#### What about the U.S.?

A particularly bitter episode for India came from mediation attempts by the U.S. and the U.K. after the 1962 Sino-Indian war. The U.S. had provided India with planes and military hardware worth about \$60 million during the war, and the price, said American officials, was that India should agree to mediated talks with Pakistan on Kashmir.

Says Ashoka University Professor Rudra Chaudhuri (author of *Forged in Crisis: India and the United States since 1947*, and also the director of Carnegie India), "The mediation was accepted because Nehru was in shock after the defeat to China, and the U.S. made it clear that any further military assistance was contingent on India's cooperation on Kashmir talks."

On November 21, 1962, the day the war ended, a team of 24 American negotiators headed to India, led by U.S. Assistant Secretary of State Averell Harriman. They worked, along with U.S. Ambassador John Kenneth Galbraith and British High Commissioner Paul Gore-Booth to bring India to the table for six rounds of talks between Foreign Minister Swaran Singh and Pakistan Foreign Minister Zulfiqar Ali Bhutto. Eventually, however as India regained its confidence, the talks floundered, and ended in 1963 after Nehru made it clear that India would never give up the Kashmir Valley.

#### Will India remain opposed to mediation?

After winning the war with Pakistan that saw the creation of Bangladesh, India, in 1972, negotiated the Simla Agreement, which did away with any idea of future mediation between the two countries. According to the Agreement signed on July 2, 1972 by Indira Gandhi and by then President Zulfiqar Ali Bhutto, the two countries "resolved to settle their differences by peaceful means through bilateral negotiations or by any other peaceful means mutually agreed upon between them".

In February 1999, the Lahore declaration signed by Nawaz Sharif and Atal Behari Vajpayee also affirmed the bilateral nature of issues and their resolution. Thus, even when Mr. Trump spoke this week, India's response, in Parliament, was to invoke the Shimla Agreement and the Lahore Declaration saying that they "provide the basis to resolve all issues between India and Pakistan bilaterally". These bilateral efforts are at an end at present, and little has moved since the last negotiations on Kashmir in 2003-2008, when Indian and Pakistani negotiators discussed the four-step formula.

India has maintained its opposition to third-party mediation, however, and despite offers from several leaders including South African President Nelson Mandela, UN Chief António Guterres, and more recently, the Norwegian Prime Minister, Erna Solberg, has said, "thanks, but no thanks".

# What is zero budget natural farming?

Will this form of chemical-free agriculture increase farmers' incomes? Where are the pitfalls?

PRISCILLA JEBARAJ

The story so far: Finance Minister Nirmala Sitharaman thrust zero budget farming into the spotlight in the first Budget speech of the 17th Lok Sabha earlier this month, calling for a "back to the basics" approach. She said, "We need to replicate this innovative model through which in a few States, farmers are already being trained in this practice. Steps such as this can help in doubling our farmers' income in time for our 75th year of Independence." Several States, including Andhra Pradesh and Himachal Pradesh, have been aggressively driving a shift towards this model.

#### What is it and how did it come about?

Zero budget natural farming (ZBNF) is a method of chemical-free agriculture drawing from traditional Indian practices

It was originally promoted by Maharashtrian agriculturist and Padma Shri recipient Subhash Palekar, who developed it in the mid-1990s as an alternative to the Green Revolution's methods driven by chemical fertilizers and pesticides and intensive irrigation. He argued that the rising cost of these external inputs was a leading cause of indebtedness and suicide among farmers, while the impact of chemicals on the environment and on long-term fertility was devastating. Without the need to spend money on these inputs – or take loans to buy them – the cost of production could be reduced and farming made into a "zero budget" exercise, breaking the debt cycle for many small farmers.

Instead of commercially produced chemical inputs, the ZBNF promotes the application of *jeevamrutha* – a mixture of fresh desi cow dung and aged desi cow urine, jaggery, pulse flour, water and soil – on farmland. This is a fermented microbial culture that adds nutrients to the soil, and acts as a catalytic agent to promote the activity of microorganisms and earthworms in the soil. About 200 litres of *jeevamrutha* should be sprayed twice a month per acre of land; after three years, the system is supposed to become self-sustaining. Only one cow is needed for 30 acres of land, according to Mr. Palekar, with the caveat that it must be a local Indian breed – not an imported lersey or Holstein.

A similar mixture, called *bijamrita*, is used to treat seeds, while concoctions using neem leaves and pulp, tobacco and green chillis are prepared for insect and pest management.

The ZBNF method also promotes soil aeration, minimal watering, intercropping, bunds and topsoil mulching and discourages intensive irrigation and deep ploughing. Mr. Palekar is against vermicomposting, which is the mainstay of typical organic farming, as it introduces the the most common composting worm, the European red wiggler (*Eisenia fetida*) to Indian soils. He claims these worms absorb toxic metals and poison groundwater and soil.

#### Why does it matter?

According to National Sample Survey Office (NSSO) data, almost 70% of agricultural households spend more than they earn and more than half of all farmers are in debt. In States such as Andhra Pradesh and Telangana, levels of indebtedness are around 90%, where each household



A cotton field in Andhra Pradesh. (Below) Subhash



Sikkim, which has seen some decline in yields following a conversion to organic farming, is used as a cautionary tale on totally abandoning chemical fertilizers

bears an average debt of ₹1 lakh. In order to achieve the Central government's promise to double farmers income by 2022, one aspect being considered is natural farming methods such as the ZBNF which reduce farmers' dependence on loans to purchase inputs they cannot afford. Meanwhile, inter-cropping allows for increased returns.

The Economic Survey has also highlighted the ecological advantages.

#### Is it effective?

A limited 2017 study in Andhra Pradesh claimed a sharp decline in input costs and improvement in yields. However, reports also suggest that many farmers, including in Mr. Palekar's native Maharashtra, have reverted to conventional farming after seeing their ZBNF returns drop after a few years, in turn raising doubts about the method's efficacy in increasing farmers' incomes.

ZBNF critics, including some experts within the Central policy and planning think tank NITI Aayog, note that India needed the Green Revolution in order to become self-sufficient and ensure food security. They warn against a wholesale move away from that model without sufficient proof that yields will not be affected. Sikkim, which has seen some decline in yields following a conversion to organic farming, is used as a cautionary tale regarding the pitfalls of abandoning chemical fertilizers.

#### Which are the States with big plans?

According to the Economic Survey, more than 1.6 lakh farmers are practising the ZBNF in almost 1,000 villages using some form of state support, although the method's

advocates claim more than 30 lakh practitioners overall. The original pioneer was Karnataka, where the ZBNF was adopted as a movement by a State farmers' association, the Karnataka Rajya Raitha Sangha. Large-scale training camps were organised to educate farmers in the method. According to a survey carried out in those early years, ZBNF farmers all owned small plots of land, had some access to irrigation and owned at least one cow of their own.

In June 2018, Andhra Pradesh rolled out an ambitious plan to become India's first State to practise 100% natural farming by 2024. It aims to phase out chemical farming over 80 lakh hectares of land, converting the State's 60 lakh farmers to ZBNF methods.

Himachal Pradesh, Chhattisgarh, Kerala, Karnataka and Uttarakhand have also invited Mr. Palekar to train their farmers.

#### **Is the budgetary support enough?** Despite the ZBNF buzz caused by the Budget speech, the

Finance Minister did not actually announce any new funding to promote it. Last year, the Centre revised the norms for the Rashtriya Krishi Vikas Yojana-Remunerative Approaches for Agriculture and Allied sector Rejuvenation (RKVY-RAFTAAR), a flagship Green Revolution scheme with an allocation of ₹3,745 crore this year, and the Paramparagat Krishi Vikas Yojana, which has an allocation of ₹325 crore and is meant to promote organic farming and soil health. Under the revised guidelines, both Centrally-sponsored schemes now allow States to use their funds to promote the ZBNF, vedic farming, natural farming, cow farming and a host of other traditional methods.

Andhra Pradesh says it has utilised ₹249 crore from these schemes to promote the ZBNF over a two-and-a-half year period. The State estimates it will need ₹17,000 crore to convert all of its 60 lakh farmers to the ZBNF over the next 10 years.

However, this is only a fraction of the spending on Central government subsidies for fertilizers, pesticides and mass irrigation that has driven the Green Revolution model

#### What lies ahead?

NITI Aayog has been among the foremost promoters of Mr. Palekar and the ZBNF method. However, its experts have also warned that multi-location studies are needed to scientifically validate the long-term impact and viability of the model before it can be scaled up and promoted country-wide.

The Indian Council of Agricultural Research is studying the ZBNF methods practised by basmati and wheat farmers in Modipuram (Uttar Pradesh), Ludhiana (Punjab), Pantnagar (Uttarakhand) and Kurukshetra (Haryana), evaluating the impact on productivity, economics and soil health including soil organic carbon and soil fertility.

If found to be successful, an enabling institutional mechanism could be set up to promote the technology, NITI Aayog vice-chairman Rajiv Kumar has said. The Andhra Pradesh experience is also being monitored closely to judge the need for further public funding support.



Origin of photosynthesis Imperial College London researchers, studying Heliobacterium modesticaldum - an ancient bacterium - have found structures in it that suggest photosynthesis may have evolved a billion years earlier than is presently believed, and oxygenic photosynthesis need not have evolved from anoxygenic



**Love hormone** 

photosynthesis.

Oxytocin is believed to regulate maternal behaviour. Now, a study in PLOS ONE finds a group of cells activated by oxytocin present in one area in female mice but not in the same area in males. Activation of the receptors correlates with estrogen presence, implying the cells can induce maternal behaviour. The finding has potential for treating postpartum depression



Fountain of youth Senescent cells are the opposite of stem cells: they can never divide again. New research finds that ageing, senescent cells stop producing nucleotides, the building block of DNA. When young cells were prevented from producing nucleotides, the cells became senescent. The findings have potential to help with ageing and related

## IIT Madras: Breath humidity sensors for wearable electronics

It detects ethanol, acetone in oral breath of alcoholics, diabetics, respectively

R. PRASAD

A nanofibre sensor capable of sensing minute variations in relative humidity levels in the exhaled breath has been fabricated by a team led by T. Pradeep from the Department of Chemistry at the Indian Institute of Technology (IIT) Madras. The highly sensitive sensors can be integrated into wearable electronics and might have applications in assessing human metabolism and calorie burn rates.

The sensor can also detect traces of ethanol and acetone, two major components present in the oral breath of alcoholics and diabetics, respectively.

#### **Quick response time**

The sensors have very quick response time of about one second and can detect a range of relative humidity from 0-95%. The sensor was found to have high stability. "Even after exposing the sensor to ambient conditions for a week, we still found the response time to be about one second and could match the breathing rates quite effectively," says Sathvik Ajay Iyengar who was a short-term student with Prof. Pradeep's team and is one of the first authors of a paper published in the journal ACS Applied Electronic Materials.

The breath rate was measured for one-two hours prior to and after exercise. The heart rate is higher soon after exercise and this is reflected in higher breath rate. "We intend collecting breath rate over a period of few days to establish the relationship between heart and breath rate and metabolism," says Pillalamarri Srik-



Portable: The nanofibre sensor can be easily integrated to the base of wearables such as common place masks, say (from right) Pradeep, Pillalamarri Srikrishnarka and Sathvik Ajay. SPECIAL ARRANGEMENT

rishnarka from IIT Madras. the other first author of the

The nanofibre mat is fabricated by electrospinning poly(vinylidene fluoride) and reduced graphene oxide. Coating the mat with polyaniline turns the mat into a sensor.

The moisture in the breath reduces the resistance of the sensing material thereby allowing more current to flow. So when a fixed voltage (1-2 volts) is applied to the sensor, there is more current that is detected when the sensor comes in contact with moisture in the breath.

"In the presence of humidity, 100-1000 times more current can be detected using our sensor compared with other sensors," says Iyengar. "So when the current measured is in nanoampere range when other sensors are used, we were able pere range using our sensor." When there are traces of breath, the resistance of the sensor increases and conductivity reduces. Hence, there is a dip in the current measured from the baseline. "The reduction in conductivity is because of the absence of moisture – the hydrogen bond between the sensor and analyte [ethanol and acetone] is less likely to form," says Srikrishnarka.

"Polyaniline is the major contributor of current conduction, and reduced graphene oxide complements it. The combination of polyaniline coating and reduced graphene oxide allows higher current conduction," says Srikrishnarka. "In the absence of reduced graphene oxide, polyaniline can still conduct current but at a significantly lower level. The reduced graphene oxide alone does not help conduct current."

"The coating of the mat with polyaniline occurs in water and so can be scaledup to get large-scale coat-

ethanol and acetone in the ings. This process also makes it easier, quicker and relatively more eco-friendly than other commercial processes," says Prof. Pradeep. The nanofibre mat obtained is very thin and offers breathability. In order to integrate sensors like this into wearable electronics to monitor breath, resistance-free air flow is the key.

#### Portable sensor

To make the sensor truly portable, the researchers are using the popular Arduino prototyping platform coupled with Bluetooth module for collecting data wirelessly.

"We initially tested the sensor performance using an Arduino Uno and we observed a good response. We intend to team up with other departments to recognise patterns by using machine learning and to develop mobile-friendly apps to monitor health," says Prof. Pradeep. The team plans to take the work forward via startup in-

## Predicting pollution levels using oceans' memory

Patterns like El Nino can help predict weather conditions and pollution, nearly a season in advance

ASWATHI PACHA

Researchers from China and the U.S. have been successful in predicting air pollution levels in northern Indian States. The model they have developed shows 75% accuracy in predicting pollution levels, and the prediction can be done even a season in advance. The model takes into account certain climatic patterns related to the ocean which have a regulatory effect on the wintertime air pollution over northern India. Studying these

patterns can help predict pollution levels. India has been emerging as one of the world's most polluted countries, with particulate matter PM 2.5 levels spiking more than 999 microgram per cubic metre in parts of Delhi last year.

Studying a combination of El Nino, Antarctic Oscillation and the anomalies in sea surface temperature during autumn (September-November), can help forecast the conditions pollution (December-February).

The statistical model developed by the team can also help the government in adjusting policies and strategies for pollution control before winter comes, the paper published in Science Advances adds.

It is known that the aerosol over an area is modulated by meteorological conditions and circulation patterns. Stagnant weather conditions such as low wind speeds and descending air can favour rapid aerosol formation and accumulation. Understanding these climatic factors which influence the wintertime haze pollution can help foresee the future ventilation conditions too.

Also, the ocean data serves as a memory and large-scale climate patterns like El Nino can tell what the weather conditions and pollution will be, nearly a season in advance

The team constructed a computer model which incorporates the El Nino and Antarc-



memory to foretell how the weather conditions and pollution will play out. ■ FILE PHOTO

tic Oscillation data for autumn. Climatic data from the National Oceanic and Atmospheric Administration, U.S for the period 2003-2018 and the aerosol optical depth observed by various satellites were also used.

"It will help identify if the weather conditions will be favourable or unfavourable for pollution, helping the government frame a more stringent pollution control plan if needed," explains Dr. Meng Gao, assistant professor at the Hong Kong Baptist University, China. He is the first author of the study.

The Antarctic Oscillation does not act directly to influence Indian climate but affects the Indian Ocean Meridional Dipole which in turn plays a role in our climatic conditions.

He added that there have been several studies in China connecting extreme pollution with East Asia winter monsoon, Arctic sea ice loss, the El Nino-Southern Oscillation, and Pacific sea surface temperature anomalies. The predictions from these studies have helped the government makethe needed reforms, especially in its industrial sector, helping bring down pollution levels

### Bees use complex memory for communication

Waggle run correlates with distance from food site to hive

Bees use waggle dance to communicate with their nest mates the flight distance and direction to foraging sites. Now, a research team led by Axel Brockmann at the National Centre for Biological Sciences (NCBS), Bengaluru, has studied how bees use complex memory to generate dance duration to communicate a change in foraging distance.

Bees are known to waggle dance near the entrance of the hives. The duration of the waggle run of a dancing bee correlates with the distance between the food site and the hive. For instance, as the distance to the foraging site increases, the duration of waggle

The team used the honey bee species *Apis* mellifera for the study. "Most of the research on the brain and behaviour of bees around the world is done with the help of *A. mellifera* and therefore we could put our results into the context of all the research done previously," says Dr. Brockmann.

#### **Memory formation**

To understand in detail memory formation in bees for waggle dance, the researchers trained a group of honey bees to forage food kept 300 metres away from the hive. When the food source was shifted to 400 metres, most of the bees took multiple trips to the new foraging site to update their dance. Till such time the bees formed the new memory, they displayed an intermediate dance duration indicating distances in between the new and old foraging locations.

"One must assume that the bees, when arriving at the new feeder site, know the distance between the feeder and the hive. If not, they will not be able to find the way back. The occurrence of intermediate dance durations indicates that the bees use memory of both distances when they update the dance information," says Dr. Brockmann. It was also noticed that the memory pro-

cesses of bees responded differently depending on whether the foraging distance was extended or shortened from the original distance of 300 metres. When the feeder was shifted from the original distance of 300 metres to 200 metres and back to 300 metres, the bees were able to update the feeder distance following each shift and communicate the distance correctly through waggle dance.

In contrast, when the feeder was shifted from the original distance (300 metres) to 400 metres the bees were able to communicate the longer foraging distance. But when brought back to the original distance of 300 metres, it continued to exhibit the waggle duration for 400m.

"The foraging site at 400 metres was new to the bees unlike the one at 200 metres which the bees visited earlier during the training process. Therefore, when the feeder was first shifted to a novel site [400 metres] and then back to the original site [300 metres], honey bees did not update the waggle duration after the second shift. This is likely due to new memory interfering with the recall of an older one," says Arumoy Chatterjee, a PhD student at the institute. He is the first author of the paper published in Journal of Experimental Biology.

"Previously, there was no easy way to dissociate the waggle dance activity of honey bee foragers from their foraging activity. Our experiments now provide us with the means to dissociate them, an essential first step towards understanding the mechanisms underlying the conversion of flight information to waggle dance information", adds co-author Ebi George, another PhD student at the

### Reversible superglue inspired by snail epiphragm

Snails secrete a mucous film which dries to forms a glassy structure that fixes them to the substrate

SHUBASHREE DESIKAN

A hydrogel-based adhesive that combines strength and reversibility has been developed by a collaboration of researchers based in the U.S. and Korea. This combination is not easily found in adhesives. The group has drawn inspiration from snails in developing this adhesive.

#### **Snail mucous**

When snails are startled or encounter discomfort, they shrink into their shells. They secrete a mucous film around the opening of their shell, which on drying forms a glassy structure that both seals them in and fixes them strongly to the object they are sitting on. This structure formed by the dry mucous is called an epiphragm.

The strength of this epiphragm stems from the fact that before it dries it penetrates into the microscopic crevices on the surface the



Firm grip: To demonstrate this, we used two 2-squarecentimetre pieces of the adhesive to suspend me (85 kg) in the air, says Jolly. ■ SPECIAL ARRANGEMENT

snail is resting on. When it dries to a glassy state, it acquires a stiffness that is ma-

ny orders of magnitude

higher than its wet state.

Similarly, the hydrogel developed by the group har- its hydrated state is soft, wet cleaning out some old samdens from its wet state with and squishy. "In this state it ples from his desk that were a modulus of 100 pascals to a dry state value of 2.3 giga-"The ability to go from

being as soft as Jello to being 1,000 times stiffer when dried, that is, hard as a bottle cap, and to do so without shrinking significantly in the process, is what makes our adhesive special and strong," says Jason Christopher Jolly, a PhD student in the School of Engineering and Applied Science, University of Pennsylvania, and an author of the paper published in Proceedings of the National Academy of

#### Soft hydrogel

Unlike commercially available wood glues (such as Fevicol) or superglues that are liquids when applied and solidify to perform the adhesive role, the PHEMA adhesive developed by the group is like a solid that in author of the paper, was is able to flow into and fill micro- and nanoscale surface grooves aand pores, following which it can be dried to lock itself in place," explains Jolly in an email to The Hindu.

#### **Strong adhesive** PHEMA, which stands for

poly(2-hydroxyethyl methacrylate), has a remarkable adhesive strength. According to the researchers, a 1 x 1 cm square sample of the adhesive can hold an object weighing 91 kg. To compare this to a commonly used reversible adhesive, a strong 1 cm square of Velcro can support a weight of 12.2 kg.

"To demonstrate this, we used two 2 square centimetre pieces of the adhesive to suspend myself (85 kg) in

the air," says Jolly. The group ran into PHE-MA rather serendipitously when Gaoxiang Wu, co-first thin films of patterned PHE MA on slides he had prepared for another project. The idea was born when he found that the slides were stuck together and he could not separate them even with great effort.

The group has filed for patents for the technology. Further, while the adhesive shows strength and reversibility, it is still limited to use in relatively dry environments, as its switching mechanism relies on water. "It is limited to applications that don't require very fast switching," says Jolly.

"Our plan is to tweak the chemistry so as to not be water-based but to use organic solvents. We are also working on engineering more adhesives of this class that can be switched on with different stimuli such as light, heat or electrical puls-

# IISER Mohali finds that zebrafish use landmarks for navigation

The presence of colourful landmarks, visible even in turbid conditions, plays an important role in improving foraging success

R. PRASAD

Low to extremely turbid water conditions are quite common in areas that humans insuch Under conditions, it is a challenge for fish to forage food as they rely on vision to navigate and find food. Now, in a study carried out using zebrafish, researchers at the Indian Institute of Science Education and Research (IISER) Mohali have found hard evidence to support how turbidity negatively affects foraging efficiency and how they learn to cope with it. The study was done in collaboration with

IISER Kolkata. The team led by Dr. Manjari Jain from the Department



navigate to foraging sites. • NAKUL RAJ

of Biological Sciences at IIS-ER Mohali found that with acclimatisation to turbidity conditions zebrafish did overcome the challenges

posed by reduced visibility. The study found that acclimatisation to the immediate visual environment does play an important role in defood. The results of the study were published in the journal Biology Letters. **Colourful landmarks** 

termining success in foraging

In addition to acclimatisation, the presence of colourful landmarks that are visible even in extremely turbid conditions plays an important role in improving foraging success. The study could conclusively show that zebrafish use visual cues to navigate to foraging sites especially when turbidity is high and visibility is low.

"The cornerstone of the study is the visual learning capability of zebrafish. We found the wild freshwater zebrafish (Danio rerio) are capable of using familiar visual landmarks to find food locations even when vision is compromised," says Dr. Jai

"This is the first study to show the ability of zebrafish to use any landmark for navigation," she says. The study highlights the important role of behavioural plasticity and spatial learning to cope with altered sensory environments, which in this case is increased turbidity of the water they live in.

#### **Effect of turbidity**

"Here we demonstrate the detrimental effect of turbidity on zebrafish with respect to foraging. Turbidity is likely to increase the metabolic cost associated with foraging

behaviour," Dr. Jain stresses. "But what is unique is that within one month of acclimatisation they seem to deal with it. The foraging ability improves drastically. It highlights the importance of acclimatisation."

If zebrafish do indeed learn to cope with turbidity and find food in a matter of one month, should the effect of turbidity on zebrafish matter at all? "Just because they are able to cope with turbidity in a month does not mean that chronic exposure to turbid water is not going to affect them. The resilience to survive in turbid water has not been studied," she

"If one of the sensory mo-

dalities is compromised in some species they are capable of switching over to another. But in the case of zebrafish we found they continue to use visual sensory to locate food," Dr. Jain says. For the study, the re-

searchers collected 160 zebrafish from a clear stream near Kolkata. The fishes kept in tanks were fed fish pellets and Artemia (genus of aquatic crustaceans). They were trained for two weeks to navigate and locate food. After training fish to find food, 75 fishes were split into three groups and the different groups were acclimatised for a month in clear, low turbid and high turbid conditions. The low turbid condition mimicked coastal water and high turbidity mimicked an estuary mouth.

#### **Acclimatisation**

The researchers found that one month of acclimatisation was sufficient for fishes to forage food even when the turbidity was high.

Even during training, the researchers did find that zebrafish in turbid water did learn to use colourful stones as proxy for food locations. During the tests, even in highly turbid conditions, the ability to locate food was superior when there landmarks. Their ability to locate was compromised when the landmarks were not present.

# Life as one big BREADBOARD

Outcomes hardly matter; just do it as diligently as possible

SHANKAR GOPALKRISHNAN

The electronics laboratory sessions at the engineering college were eventful. A motley set of equipment lay scattered on the table – a breadboard, a display screen, a clump of wires and colourful beads comprising resistors, transistors and capacitors. The objective was simple: to follow a set of instructions, create an electronic circuit on the breadboard and read the resultant output waveform on the display screen. The breadboard had tiny holes into which you inserted the resistors and capacitors and connected them up with

It would be unnerving especially if you were doing it for the first time. You had to contend with multiple challenges – instructions that were unclear, the pressure of time and the overbearing

presence of the professor who looked out for the slightest error to give you an earful! It was often an exercise in futility, and there were days when the experiments completely failed despite your best efforts. Still, you soldiered on.

If you managed to get the desired output waveform and successfully completed the lab work, it was deemed a miracle.

#### The miracle

One afternoon, a miracle did happen. The display screen suddenly sprang to life, and registered this most beautiful waveform. It was a sight to behold – a rainbow of sorts for our thirsty eyes!

We were a team of three and had struggled through the entire afternoon putting the pieces of the circuit together until the breadboard resembled a wild jungle... with wires hanging all over!

We impatiently waited until the professor was at the table to evaluate our artwork. It was our crowning glory moment. The professor's expression was inscrutable he looked at the waveform with interest and then looked at each of us with equal interest. He carefully removed one of the resistors from the breadboard, reaching out for it between the wild undergrowth of wires. "Watch, my dears; the waveform output is still intact!" Our response was muted.

loss of a body part need not affect the overall health, or so we thought. What happened from this point on was nothing short of dramatic. The professor did quick work: he removed a ca-

pacitor here, a resistor there

and uprooted wires by the

"Yes, sir," we mumbled. In

such a complicated circuitry,

there could be some scope

for redundancy, where the

handful. Like dead pieces outside a chessboard, there was a now a growing heap of deadwood piling up outside the breadboard. "My dears, your waveform is still intact!"

We knew something was

ILLUSTRATION: J.A. PREMKUMAR

wrong. Soon, the professor plunged his entire fist into the breadboard and exhumed whatever came in his grasp and exclaimed, "My dears, your waveform has still not changed!" Eventually, in a manic rage, he had emptied the entire breadboard of all its components. The waveform still smiled back at us, unaffected. The

pleasant. The professor asked for the lab recordbooks and scrawled, "repeat the experiment" in red across the entire page. He was evidently angry.

The above incident is actually several decades old. To this day, I am baffled how the waveform output could be so precise especially when the breadboard was emptied out. There are plausible explanations, no doubt, of the circuit being 'shorted' or the display wires possibly connected back-to-back. I do not know. However, I do know this incident has taught some

valuable lessons for life.

Often we wonder about our contribution to this world, our role in the scheme of things and how it will shape the future. As the years roll by, these largerthan-life questions nag us. We worry that if by a quirk of fate, we move on today, would we have done enough for the future, for the family, for society so that they are better off, just that little bit, because we lived. But there

It is here that the breadboard and the waveform come to our rescue. The waveform did not require the elaborate circuitry on the

are no easy answers.

NICU®

breadboard at all. So too with life. The cosmic laws will take care of the future on their own. In front of these mighty laws of time, space and causation, my puny existence and contribution amounts to nothing. Hence, I need not worry about the future. The future will unfold on its own, regardless of me. This attitude frees me from unnecessarily carrying a

load that I need not! If that is the case, do I need to struggle with the breadboard at all? Do I need to wire those elaborate connections? Can I simply eject if anyway my contribution amounts to nothing?

No, I do need to wrestle with the breadboard and arrange those resistors and wires to the best of my ability. If I look back, those electronics laboratory sessions were important. We experienced the whole gamut of emotions – of elation and dejection, ear and futility (often on the same day). The tapestry of emotions made our lives richer. Without them,

our lives would have been boring and hollow. The diligence, the teamwork, the common goal and the shared emotion... everything was essential and helped us emerge stronger

and wiser. In the process, we had a lot of fun. So too with life. I am placed today in a particular role, to wire up some circuit on some breadboard.

The outcome just does not matter. I only have to be busy in the process of wiring the breadboard as diligently as I can. That alone is my lot. Ours is not to question why. Ours is but to do and die! Therefore, we keep doing, like the busybee... with a heart for any fate. Still achieving, still pursuing, we learn to labour and to wait!

# The striking tales the rain tells

The universal truths and some age-old lessons of water management

C.N. PILLAI

ain, or the lack of it, is very much on our rery much care minds today. Though about 70% of the surface of the earth is covered with water in the form of oceans, life on the land depends on precipitation as rain and snow.

The occurrence of precipitation is subject to the vagaries of nature, leading to unexpected droughts and floods. Man, over the ages, has adopted various strategies to propitiate nature and the gods to ensure adequate rainfall. The ancients were aware of the importance of trees and mountains in ensuring rainfall and conserving water. I recount two stories from Indian mythology to illustrate the point.

Bhagavatha Puranam conuia practised in Gokulam

during Krishna's childhood. This was an agrarian community whose livelihood was farming and cattle-rearing, and timely rain was important. Every year, they would conduct a puja or yagam to propitiate Lord Indra who was believed to be the one who controlled rain.

Once when Krishna was about seven years old, preparations were afoot for the annual Indra puja. Krishna questioned the elders of the community on the puja. When told about its purpose, he could not accept it. He argued that rain was a natural phenomenon and Indra, if at all involved in it, could act only according to the rules of nature. Scanty rainfall, if it happened, was the result of our own acts of commission

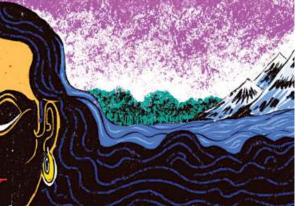


ILLUSTRATION: SATWIK GADE

and omission. (I am using modern terminology here for what I think Krishna meant by ascribing it to kar-

He further said they were living in the foothills of the Govardhan mountain and tains chapters on Govardhan the mountain and the trees were responsible for bringing forth rain. We neglect the mountain and the trees at our own risk and Indra had no role to play in this.

> So he suggested they perform a puja for the mountain. An environmental activist today could not have expressed it better. He was so persuasive that the people of Gokulam followed his advice. The subsequent events are well-known. Krishna's suggestion should be interpreted as a call to protect and conserve nature.

#### Bhagiratha's task

Let me now go fast backward to another era and another scenario. King Bhagiratha ruled his country in the foothills of the Himalayas. He was a troubled person. The souls of his forefathers were doomed to perdition without salvation due to their own karma. Rituals had to be performed with holy waters from heaven to put their

Bhagiratha was determined to cajole Ganga Devi herself from the heavens to come down to earth, and to this end, he performed rigorous tapasya. His arduous ef-

The ancients were aware of the importance of trees and mountains in ensuring rainfall

forts finally bore fruit and Ganga Devi agreed to come down to the earth.

But the fall of the waters would result in a deluge and the entire earth could be washed away unless means were in place to contain the floods. Lord Siva agreed to receive and hold the waters when they descend, in his tresses. Here Siva symbolically stands for the Himalayan mountains and his tresses for the trees, vegetation, hills, valleys and lakes.

the form of heavy rains or cloudbursts and the waters were contained by the But even that did not solve

Ganga Devi did descend in

the king's problem. Water in the mountain is not water in the plains where the ancient ashes were waiting to be quenched, and that location was far away. Poor Bhagiratha went back to his tapasya and persuaded Siva to release the waters in measured quantities via rivulets and finally into the mighty Ganga, which flowed down the plains till it reached the grounds where the rituals were performed.

The purpose of reciting this well-known story is only to emphasise the importance of mountains and trees to regulate floods and in water management, to use a modern term. Disturbing the ecosystem of the catchment areas, be they the hills or the plains, can have disastrous consequences all around the region. The devastating flood that inundated Uttarakhand and the neighbouring Himalayan States in 2013 was attributed to the wanton destruction of the mountains in various ways by people for

short-term gains. In the present-day context, experts in this field are aware of these matters. While a spate of quick-fix measures are being undertaken, it is good to remember that such measures can only be of limited use, and longterm measures should be implemented on an ongoing

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### All in a day's work for this doctor

Two patients, the same kind of effort put in; one survives, the other dies

God to us

PINGALI GOPAL

The one-hour-old blue baby was brought in at 5 a.m. with rapid breathing. A quick examination and an X-ray established a diaphragmatic hernia - a defect in the muscle separating the abdomen from the chest. This allowed loops of bowel and other abdominal organs to enter the chest, compressing the lungs and the heart. The only course open was surgery.

As the paediatric and neonatal surgeon in the hospital, I gave the attendants a rough estimate of the cost, including the possible variances in the event of complications arising. I added that in case they are not happy to stay in that hospital, we would transfer the child to the government facility – and told the father to communicate his decision to the nurse.

The consent came after a few hours. The child was born after years of marriage. The father asked me to do my best; and sought a discount on the bill as he had limited means. I promised to do my best with the medical efforts and the bill too if everything went well. The child had a smooth surgery and went on elective ventilation.

I saw another patient just as I was coming out of the theatre, and as it happened, it was an exactly similar case. I groaned. The same bit of counselling went into the discussions with the family attendants. The father was absent in the proceedings. The attendants said he was working in Mumbai and was on his way. The treatment



ILLUSTRATION: SRFF IITH R KLIMAR

went surgery the next day. The surgical findings were very similar, and the child went on ventilatory support.

On the third day, the condition of both babies started deteriorating, the cause being sepsis. For the next few days, it was a see-saw between life and death for them, amid our efforts. The



Thank you so much for saving the child. You are but God to us

babies would improve, raise hopes, and then sink a bit. I spent two consecutive nights in the neo-natal intensive care unit (NICU) over endless cups of tea. On the seventh day, the first baby started to improve; unfortunately, the condition of the second progressively deteriorated. The attendants of the second baby stopped buying medicines, and we had to supply them from our stock. The number of attendants started dwindling at a slow rate.

Five days later, the first ba-

by recovered and was ready for discharge. The father came to my room and spoke, with tears in his eyes, "Thank you so much for saving the child. You are but God to us." Suddenly, he bent down along with his aged mother to touch my feet. I recoiled in shock. The father pleaded: he was extremely poor and had taken money from a loan shark. He built up his case slowly and finally managed to take a whopping quarter off the bill, and I approved it.

That evening, the second child died. The only person outside the NICU was an old lady to whom we declared the death. She said the attendants would come the next day. That day, two tractors filled with people landed at the hospital gate demanding to see me. My chamber was flooded with at least 20 people, smelling strongly of country liquor. And then came abuse, allegations of negligence, exploitation, and demands for compensation. A figure of one lakh rupees started floating around, an impossible amount those days. Members of the local doctors' body and the police later added to the already cramped room.

Shouting matches between some of our more vocal doctors and angry members of the crowd ensued. The original attendants of the patient were completely missing from the scene of action now. After four hours, a deal was finalised on the intervention of some local politicians and the police. The hospital and the pharmacy are to waive the dues and pay some extra money for funeral expenses on 'humanitarian' grounds. There was a threat to me and the hospital from a mob. Amid slogans on loudspeakers, journalists taking photographs, and curious onlookers, the body of the child left the hospital.

I sat helplessly and burnt with impotent anger. The family had lost the child, but a doctor had just lost some faith. When a doctor hardens a little bit, what are the consequences for the medical profession and society? Two patients, the same kind of effort put in; one survives and makes me god and the other dies making me a devil.

Triumph and disaster stalks everyone, and it is well worth remembering the words of Lord Krishna: I am indifferent to triumph today, but still to handle disaster similarly. In their own ways, both the families managed a huge discount! I, god and devil rolled into one, went home, had dinner, and slept fitfully to see another day.

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### How nature sorts us

No two lives are comparable, and no two achievements can be similar

G. SWAMINATHAN

recently watched a movie on social discrimination Land its perils. The Indian Constitution does not permit such acts, but unfortunately we live in a country soaked in discrimination from time immemorial.

Can we find any society where there is no discrimination? Probably not; only in terms of the degree there

might be differences. Let us look at this objectively. Nature, or the Almighty, or the Creator of this world - depending on your point of view - discriminates among everything. Is he or it not discriminating between an animal and a human from birth? Do we have the same geography and climate in every part of this universe? Does every human being or animal look the same though there are similarities? Can we confidently say

life is fair to everyone? When I mentioned this once to my friend, she asked: "Why do you expect life to be fair to everyone?" She was right. Life cannot be fair to everyone. So there is definitely

If we look at a human being's life from his or her birth, at every stage he/she has to face or find inequity. First, the looks and colour, then IQ, then education, then academic achievements, job or marriage, children, health, and finally,

death. Factually speaking, the whole world survives only because of discrimination. If everyone is equal and same, life will just not move. An engineer cannot do the job of a doctor and a factory worker cannot execute the position of a CEO. One can argue that some start their career on the shopfloor and one day become CEOs. But such instances are far and few

between. Can we vouch that all the intelligent students reach high positions in their professions, or vice versa? I have seen many intelligent students who turned out to be mediocre in their careers while many of the mediocre and dull ones achieved great heights in the later part of their lives.

If everyone is intelligent there is no need for education; if everyone is beautiful, every life and every act; we the word may not exist in

the lexicon at all. If everyone is rich, there will not be anyone to do the work. If everyone is healthy, there is no need for doctors. When equality is attained, one cannot talk about bigotry.

Life and humans are in black, white or grey. No two things are equal. No two lives are comparable. No two achievements can be similar. Life runs because the roads of life are made by destiny with several ups and downs. Everyone, except the blessed few, had no option but to pass through

A world without discrimination or distinction is an utopian concept. Contrasts only propel life.

So basically, nature itself

humans exploit it to further our benefits, the rich and the poor, the educated and the enlightened, the good and the bad. So blame it not on humans but on nature!

gswaminathan19 differentiates everyone and







Seeming freedom and novelty for him, misery and apprehension for mother RAMAN NAIR

#### My sin, the sin of sloth

Being lazy could be a state of mind that could well liberate you ACHYUTH NAMBIAR

#### **Mock-meat and all that**

Coping with a certain kind of ambiguity in vegetarianism VIMAL KUMAR

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विचार

विचार कर्म का बीज है

### सत्ता के प्रयोग

लंबे समय तक राजनीतिक अस्थिरता से जूझते कर्नाटक में आखिरकार येदियुरप्पा के नेतृत्व में भाजपा की सरकार बन गई। येदियुरप्पा ने चौथी बार कर्नाटक की सत्ता संभाली है। चूंकि वह अभी तक एक बार भी अपना कार्यकाल पुरा नहीं कर सके हैं इसलिए यह सवाल उनका पीछा कर रहा है कि आखिर उनकी सरकार कब तक चलेगी? यह सवाल इसलिए भी उठ रहा है, क्योंकि भाजपा की सरकार तब बन सकी जब कांग्रेस और जद-एस के एक दर्जन से अधिक विधायकों ने इस्तीफा दिया। भाजपा को आगे इन विधायकों को उपकृत करना पड़ सकता है और ऐसी स्थिति में उसके अपने नेताओं में असंतोष व्याप्त हो सकता है। स्पष्ट है कि येदियुरप्पा सरकार को न केवल अस्थिरता की आशंका को दूर करना होगा, बल्कि जनता की अपेक्षाओं पर खरा भी उतरना होगा। यह आसान काम नहीं, क्योंकि कुमारस्वामी सरकार ने कुल मिलाकर राज्य का अहित ही किया है। वास्तव में वह बनी ही इसलिए थी ताकि उसके और साथ ही कांग्रेस के संकीर्ण राजनीतिक स्वार्थों की पूर्ति हो सके।

कुमारस्वामी सरकार के पतन और येदियुरप्पा सरकार के गठन के बाद जद-एस और कांग्रेस की ओर से ये संकेत दिए जा रहे हैं कि दोनों दलों की दोस्ती भी समाप्त होने जा रही है। ऐसे संकेत यही बताते हैं कि जद-एस और कांग्रेस की दोस्ती केवल सत्ता की साझेदारी के लिए ही थी। अब यह और अच्छे से स्पष्ट हो रहा है कि कर्नाटक में 14 महीने पहले कुमारस्वामी सरकार के गठन के बाद तमाम विपक्षी दलों की ओर से एकजुटता का जो प्रदर्शन किया गया था वह वास्तव में अवसरवादी राजनीति का उदाहरण ही था। शायद इसी नकली एकजुटता के कारण ही राष्ट्रीय स्तर पर महागठबंधन नहीं बन सका। कांग्रेस और जद-एस ने जो कुछ कर्नाटक में किया वही उत्तर प्रदेश में सपा और बसपा ने भी किया। इसके पहले बिहार में जद-यू और राष्ट्रीय जनता दल ने भी ऐसा ही किया था। ये बेमेल गठबंधन थे और इन्हें कामयाब नहीं होना था। समस्या यह है कि ऐसे बेमेल और अवसरवादी गठबंधन बनने का सिलसिला कायम रह सकता है, क्योंकि कई राजनीतिक दलों के लिए सत्ता ही सब कुछ है। इसी कारण आज देश के अधिकांश राजनीतिक दलों की विचारधारा का कोई अता-पता नहीं। इसे राजनीति नहीं कहा जा सकता कि राजनीतिक दल सत्ता पाने के लिए एक साथ आ जाएं और सत्ता से वंचित होने पर छिटक जाएं। यदि यह सोचा जा रहा है कि दलबदल रोधी नियम और सख्त करने से अवसरवादी राजनीति का सिलसिला थम जाएगा तो यह सही नहीं। यह सिलसिला तो तब थमेगा जब मूल्यों और मर्यादा की राजनीति को महत्व मिलेगा।

### जवाबदेही की जरूरत

उत्तराखंड में सरकारी महकमों पर सरकार का नियंत्रण नहीं है या फिर उन्हें मनमानी की खुली छूट मिली हुई है। यह यक्ष प्रश्न बना हुआ है। भ्रष्टाचार पर जीरो टॉलरेंस और कामकाज में पारदर्शिता के दावे को सरकार लगातार दोहरा रही है, लेकिन जो तस्वीर सामने आ रही है, वह इस चर्चा को जन्म देती दिख रही है कि सरकार के दावों में वाकई में कितना दम है। उत्तराखंड आयुर्वेद विश्वविद्यालय में खुला अनियमितताओं का पिटारा इसका ताजा उदाहरण है। नियक्तियां, सामान की खरीद फरोख्त और दूसरी गड़बड़ियों को लेकर विवि चर्चाओं में है। निजी कॉलेजों के संबद्धता शुल्क को लेकर भी बड़े पैमाने पर खामियां सामने आई हैं। अधिकांश निजी संस्थानों से अपेक्षाकृत कम शुल्क जमा कराने की बात सामने आई है। यही नहीं, परास्नात्तक कक्षाओं के लिए विषयों के हिसाब से शुल्क जमा नहीं कराया जा रहा है। बात यहीं खत्म नहीं होती, एक रोज पहले एक और सनसनीखेज खुलासा हुआ कि आयुर्वेद विवि में कुल सिचव पद पर मृत्युंजय मिश्रा की ताजपोशी नियम-कानून ताक पर रखकर की गई। इस 'चहेते' अधिकारी पर इतने हरबान कि ग्रेड पे भी 6000 से सीधे 10000 कर दिया। राज्य कैबिनेट में इस मसले को रखा ही नहीं गया। कार्मिक, वित्त, गोपन, न्याय तक से इस प्रस्ताव पर राय लेने की जरूरत नहीं समझी गई। यानी एक शख्स के लिए राजकाज व्यवस्था की ही बिल चढा दी गई। हैरानी इस बात कि राज्य सरकार को तीन साल बाद इसका पता चला। सहज ही समझा जा सकता है कि आयुर्वेद विभाग में कामकाज किस तरह चल रहा है और मककमों पर सरकार की कितनी पकड़ है। यह दीगर बात है कि अब सरकार ने इस अधिकारी की कुल सचिव पद पर की गई नियुक्ति को निरस्त कर उन्हें मूल विभाग में वापस भेज दिया है, लेकिन सवाल अपनी जगह खड़ा है कि अभी तक क्यों इस पर पर्दा पड़ा रहा? सरकार ने किरिकरी से बचने के लिए अधिकारी को मूल तैनाती पर वापस भेजने का आदेश तो कर दिया. लेकिन यह जानने की कोशिश अभी भी नहीं की कि आखिर यह सब कैसे हुआ और किसने किया? यह व्यवस्था पर सीधे-सीधे प्रहार है, फिर क्यों सरकार इतने बड़े घपले के बाद भी जिम्मेदारों को बेनकाब करने से परहेज कर रही है? यह सच भी सामने आना चाहिए कि ऐसा करना सरकार की मजबूरी है या फिर जनता की आंखों में धूल झोंकना चाहती है।

# खतरों से खेलता अमेरिका

इसका अहसास न हो कि ट्रंप झूठे बयान देते

रहते हैं और उनके ऐसे बयानों को इसलिए

गंभीरता से नहीं लिया जा सकता, क्योंकि वह

कहते कुछ हैं और करते कुछ हैं। विपक्षी दलों

ने ट्रंप के बयान को तूल देकर यही स्पष्ट किया

कि वे सरकार को असहज करने की ताक में

रहते हैं। इसमें हर्ज नहीं, लेकिन कम से कम

उन्हें विदेश नीति पर तो दलगत राजनीति से

परे रहना चाहिए। संसद में हंगामा करने वाले

दल इससे अनिभज्ञ नहीं हो सकते कि ओसाका

में ट्रंप और मोदी की मुलाकात के बाद जारी

वक्तव्य में उस बात का कोई जिक्र नहीं था

जिसका दावा अमेरिकी राष्ट्रपति ने किया।

ट्रंप ने इमरान से बात करते हुए यह दावा भी

किया कि वह एक करोड़ अफगानियों को

मारना नहीं चाहते, नहीं तो दस दिन के अंदर

9-11 के बाद अलकायदा के खिलाफ

हमले के बाद से ही अमेरिकी सेनाएं

अफगानिस्तान में हैं। अल कायदा तो पस्त

पड़ चुका है, लेकिन उन्हें संरक्षण देने वाला

तालिबान अफगानिस्तान की स्थिरता के लिए

खतरा बना हुआ है। तालिबान को पाकिस्तान

का संरक्षण और समर्थन हासिल है। अमेरिका

में अगले साल होने वाले राष्ट्रपति चुनाव को

अफगानिस्तान युद्ध जीत सकते हैं।



संजय गुप्त

अमेरिका को यह समझना होगा कि सेना के दबदबे वाले पाकिस्तान को प्रोत्साहन देने से दक्षिण एशिया में शांति का मार्ग प्रशस्त होने वाला नहीं है

मेरिकी राष्ट्रपति डोनाल्ड ट्रंप ने पाकिस्तानी प्रधानमंत्री इमरान खान से मुलाकात के समय जब यह दावा किया कि दो सप्ताह पहले भारतीय प्रधानमंत्री ने उनसे कश्मीर पर मध्यस्थता करने को कहा था तो देश-विदेश में जोरदार प्रतिक्रिया हुई। ट्रंप के इस बेबुनियाद दावे पर भारत की अंदरूनी राजनीति में भूचाल सा आ गया। यह भूचाल इसके बावजूद आया कि 1972 के शिमला समझौते के बाद से ही कश्मीर पर देश की यही नीति रही है कि यह भारत-पाक के बीच का द्विपक्षीय मसला है। भारत अपनी इस नीति पर बार-बार जोर देता रहा है, क्योंकि पाकिस्तान और साथ ही कुछ कश्मीरी नेता इसके लिए तत्पर रहते हैं कि कश्मीर पर कोई देश मध्यस्थता करे। पाकिस्तान संयुक्त राष्ट्र के साथ अन्य अंतरराष्ट्रीय मंचों पर कश्मीर का मसला उठाता रहता है, जबकि लाहौर समझौते में भी इस मसले को आपसी बातचीत से ही सुलझाने की बात की गई थी। अमेरिका कई बार यह इच्छा जता चुका है कि अगर भारत-पाक चाहें तो वह कश्मीर पर मध्यस्थता करने को तैयार है। खुद ट्रंप ने 2016 में ऐसी मंशा जाहिर की थी, लेकिन इस बार वह जरूरत से ज्यादा बोल गए। इस पर हैरानी नहीं, क्योंकि वह असत्य और अर्द्धसत्य बयान देने के लिए ही जाने जाते हैं। वह राष्ट्रीय और अंतरराष्ट्रीय मसलों पर न जाने कितनी बार झूठ बोल चुके हैं। अमेरिकी अखबार वाशिंगटन पोस्ट

के मुताबिक ट्रंप एक दिन में औसतन 12 झूठ बोलते हैं। वह इमीग्रेशन, विदेश नीति, अर्थव्यवस्था आदि पर भ्रामक बयान देने के लगभग आदी हो चुके हैं। एक बार वह यह कह गए थे कि जर्मनी नाटो को मात्र एक प्रतिशत अंशदान देता है जबिक उसका अंशदान 15 प्रतिशत है। ट्रंप 172 बार यह दावा कर चुके हैं कि वह अमेरिका-मेक्सिको के बीच दीवार बनाने का काम शुरू कर चुके हैं जबकि वहां पहले से मौजूद फेंसिंग की मरम्मत भर हो रही है। ट्रंप के बड़बोलेपन के चलते अमेरिकी विदेश विभाग को कई बार असहज होना पड़ा है। ऐसा बीते दिनों भी तब हुआ जब ट्रंप ने यह कह दिया कि मोदी ने उनसे कश्मीर पर मध्यस्थता का आग्रह किया था। इस पर अमेरिकी विदेश विभाग को यह स्पष्टीकरण देना पड़ा कि कश्मीर पर उसका नजरिया वहीं है जो पहले था। इसके बावजूद संसद में हंगामा मचा। कांग्रेस समेत कुछ अन्य दलों ने प्रधानमंत्री से बयान देने की मांग की। इन दलों ने विदेश मंत्री एस जयशंकर की ओर से ट्रंप के दावे को खारिज किए जाने के बाद भी यह मांग की। इन दलों ने इसकी भी अनदेखी की कि विदेश मंत्रालय ने तत्काल ही ट्रंप के दावे का खंडन कर दिया था। इसके अलावा अमेरिका के विपक्षी दल के एक प्रमुख सांसद ने ट्रंप के दावे को लेकर भारतीय राजदूत से माफी भी मांगी थी।

ऐसा नहीं हो सकता कि विपक्षी दलों को



अवधेश राजपुत

लेकर सियासी सक्रियता बढ़ गई है। ट्रंप दोबारा यह चुनाव जीतना चाहते हैं। इसके लिए वह अमेरिकी जनता को लुभाने का हर संभव जतन कर रहे हैं। ट्रंप चाहते हैं कि पाकिस्तान तालिबान को समझौते के लिए राजी करे ताकि अमेरिकी सेनाएं अफगानिस्तान से लौट सकें। अपने इस चुनावी वादे को पूरा करने के लिए ट्रंप अफगानिस्तान के साथ दक्षिण एशिया को खतरे में डाल रहे हैं। अगर तालिबान को अफगानिस्तान में हावी होने का मौका मिला तो वहां की सरकार को सत्ता छोड़नी पड़ सकती है और वहां वैसी ही अस्थिरता व्याप्त हो सकती है, जैसी 2000 के दशक में थी। पता नहीं अमेरिका का तालिबान से समझौता हो पाता है या नहीं, लेकिन इसका अंदेशा अवश्य है। कि अफगानिस्तान से अमेरिकी सेनाओं की वापसी के बाद वहां वैसी ही स्थिति बन सकती है जैसी इराक या फिर लीबिया में बनी। एक व्यापारी होने के नाते ट्रंप मात्र अपना हित देख रहे हैं। चूंकि अमेरिकी जनता का एक बड़ा तबका इससे खुश नहीं कि अमेरिका अब तक अफगानिस्तान में उलझा हुआ है इसलिए ट्रंप यह जानते हुए भी जल्दबाजी दिखा रहे हैं कि अफगान-पाक सीमा पाकिस्तानी संरक्षित आतंकियों का गढ़ बनी हुई है।

इमरान खान के समक्ष ट्रंप ने कश्मीर को लेकर जो बयान दिया उसे पाकिस्तान भले ही अपनी जीत के तौर पर देखे, लेकिन यह तय है कि भारत अपने रवैये से डिगने वाला नहीं। कश्मीर, अफगानिस्तान जैसे मसली पर चर्चा के कारण ही इमरान खान के साथ पाक सेना प्रमुख और आइएसआइ प्रमुख भी अमेरिकी यात्रा पर थे। यह पाकिस्तानी शासन पर सेना के दबदबे का प्रमाण है। अमेरिका से लौटने पर इमरान खान का जोरदार स्वागत इसीलिए हुआ ताकि आम पाकिस्तानी जनता को यह संदेश दिया जा सके कि वह कश्मीर और अफगानिस्तान जैसे मामलों पर अमेरिका का रुख एक हद तक अपने पक्ष में करने में कामयाब रहे। यह संदेश देने की भी कोशिश की गई कि कश्मीर पर भारत को झटका लगा और साथ ही अफगानिस्तान में उसका प्रभाव कम होने वाला है।

पाकिस्तान कुछ भी जाहिर करे, अमेरिका और अन्य देशों को यह समझना होगा कि सेना के दबदबे वाली पाक सरकार को प्रोत्साहन देकर दक्षिण एशिया में शांति का मार्ग प्रशस्त होने वाला नहीं है। आज जो कश्मीर में अशांति है उसके पीछे पाकिस्तान पोषित आतंकी ही हैं पाकिस्तान ने अभी तक खुद को आतंकवाद से अलग नहीं किया है। इसकी पृष्टि खुद इमरान खान के इस बयान से होती है कि पाकिस्तान में अभी भी 30-40 हजार आतंकी मौजूद हैं उन्होंने यह स्पष्ट नहीं किया कि इतने आतंकियों पर वह कैसे काबू पाएंगे? अमेरिकी राष्ट्रपति अपने राजनीतिक स्वार्थ के कारण पाकिस्तान की हकीकत से मुंह मोड़ सकते हैं, लेकिन भारत के हित में यही है कि वह न केवल सतर्क रहे. बल्कि अमेरिका को इसके लिए आगाह भी करे कि पाकिस्तान समर्थित तालिबान से समझौता आतंकवाद को नए सिरे से उभारने का काम कर सकता है।

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# चमत्कारी असर वाला झूट



हास्य – त्यंग्य हमें झूठे लोग बेहद पसंद हैं। वे बडे निर्मल-हृदय होते हैं। कभी भी अपने झुठे होने का घमंड नहीं करते। ये तो सच्चे लोग हैं जो अपनी सच्चाई की डींगें मारते फिरते हैं। झुठा अपने झुठे

होने का स्वांग नहीं करता। खुलकर और पूरे होशो-हवास में बोलता है। वह खुद इस बात का प्रचार नहीं करता। उसके 'प्रशंसक' ही कर देते हैं। कहते हैं सच बोलने के लिए बड़े कलेजे की जरूरत होती है, पर झूठ बोलने के लिए महज एक भेजे की। यह भेजा बिना शोर किए अपने नित्य-कर्म में तल्लीन रहता है।

झुठ बोलने वाला बिल्कुल तनाव-रहित होता है। मौका पड़ते ही अतिरिक्त लचीला हो जाता है। सच की तरह उसमें अकड़ नहीं होती। इसीलिए सच टूटता है और झूठ कायम रहता है। कहते हैं कि झूठ के पांव नहीं होते, पर झुठ एक दांव तो हो ही सकता है। जिस तरह झुठ के चलने की संभावना होती है, वैसे ही दांव की भी। चल गया तो चल गया नहीं तो रणनीति तो है ही। झूठ अपने सच होने के लिए संदेह को साथी बनाता है। शायद इसीलिए 'बेनीफिट ऑफ डॉउट' सच के बजाय झठ को मिलता है। वैसे भी सच कड़वा होता है। न उगलते बनता है न निगलते। झूठ बेहद सुविधाजनक होता है। जुबान पर रखते ही मिसरी-सा घुल जाता है। सुनने में भी अच्छा लगता है। झूठ बोलने का लंबा अनुभव होने पर जुबान लड़खड़ाने का खतरा नहीं होता।झूठ को किसी के समर्थन की दरकार नहीं होती। सच जहां सबूत ढूंढता फिरता है, झूठ खुद ही सबूत होता है। झूठ के पास अपनी ताकत होती है। कमजोर आदमी उसे संभाल भी नहीं सकता।

(आंकड़े करोड़ रुपये में)

1.3

तथ्य-कथ्य | इंस्टाग्राम पर प्रचार संबंधी प्रति पोस्ट से होने वाली कमाई

1.9



परिचायक है कि वह 'ग्लानि' को भी 'ग्लैमर' में तब्दील

यह झूट के बढ़ते

प्रभाव का ही

करदेताहै

संतोष त्रिवेदी

सच डरा-सहमा रहता है जबिक झूठ खुलेआम दहाड़ता है। इसीलिए सच को उगलवाने की जरूरत होती है जबिक झूठ को केवल बोलने की। महाबली जो बोलता है, वही सच होता है। झुठ बोलना राजसी लक्षण है। झुठा होना शर्म का नहीं योग्यता का प्रतीक है। यदि आप अपने तई झुठ भी नहीं बोल सकते तो कतई नाकारा हैं। अगर आप झठ बोल रहे हैं तो एक बार बोलकर रुकें या ठिठकें नहीं। लगातार बोलते रहें जब तक वह सच के रूप में स्थापित न हो जाए। इससे एक फायदा यह भी होगा कि सच और झुठ के बीच जो बरसों से खाई बनी है, वह टटेगी। समाज से भेदभाव भी दर होगा।

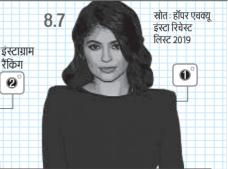
राजनीति में अपनी भारी सफलता से उत्साहित होकर झूठ ने सिनेमा और साहित्य में भी अपनी स्थायी शाखाएं खोल दी हैं। सिनेमा से जहां एक 'चिट्ठी' का रूप धरकर वह क्रांति का बिगुल बजाता है, वहीं भाषा की 'ग्लानि' मुंह पर थोपकर वह साहित्य में संवेदना ले आता है। ऐसे में सच कहीं कोने में दुबका हुआ अपने होने की 'ग्लानि' को छिपाता फिरता है। यह झूठ के बढ़ते प्रभाव का ही परिचायक है कि वह 'ग्लानि' को भी 'ग्लैमर'

में तब्दील कर देता है। झुठ इतना चमकदार होता है कि सड़क पर छुट्टा घूमते हुए घोड़े भी उसके अस्तबल में जा घुसते हैं। वहीं सच बड़ा अकेला और खाली-खाली होता है। इसमें किसी भी तरह की रचनात्मकता की गुंजाइश नहीं होती। सच के साहित्य में प्रवेश करते ही कविता अपठनीय हो जाती है। कहानी उदासी और ऊब पैदा करती है। जबकि झूठ के साथ मनचाहे प्रयोग किए जा सकते हैं। वह कल्पनाशक्ति को विस्तार कर साहित्य को समृद्ध करता है। झूठ को साहित्य, राजनीति और सिनेमा हर जगह से निकालकर देखिए, इतिहास मिटने की नौबत आ जाएगी। इसीलिए सच ठिकाने लगा है और झूठ के सब जगह ठिकाने हैं। यहां तक कि अब झुठ बोलने पर 'कौआ' भी नहीं काटता। उसे भी अपनी जान प्यारी है।

अब झूठ बोलना एक कला है। यह सबको आती भी नहीं। हो सकता है जल्द ही इसके 'अभ्यास केंद्र' खुल जाएं। वहां पर नई 'टेक्निक' पर काम हो। झूठ पर शोध-कर्म किए जाएं। इसके लिए समीक्षाओं और आलोचनाओं के रूप में बहुत बड़ा कच्चा माल हमारे साहित्य में पहले से ही उपलब्ध है। इस तरह साहित्य के 'बेगारों' को भी रोजगार की रोशनी दिखेगी और हमारे साहित्यकार 'चेलों' से भरपूर होंगे। झुठ की महिमा में हमने जो कुछ कहा, निरा झूठ है। झूठ इससे कहीं बहुत आगे पहुंच गया है। पहले झेंपकर झूठ बोला जाता था, अब पुरे सलीके के साथ। शायर वसीम बरेलवी ने इसी मौके को ताड़ते हुए कहा है, 'वो झूठ बोल रहा था बड़े सलीके से, मैं ऐतबार न करता तो क्या करता!'

आप भी उनके कहे का एतबार क्यों नहीं करते?

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काइली जेनर



#### संकट में अवसर

जिंदगी है तो सुविधाएं भी होंगी और असुविधाएं भी। मुश्किलें भी होंगी और आरामदायक स्थितियां भी। आरामदायक स्थितियां जहां अवसर समाप्त करती हैं, वहीं संकटपूर्ण स्थितियां अवसर की उत्पत्ति का मुख्य स्रोत होती हैं। विचारक स्टैनली अरनॉल्ड भी यह मानते हैं हर समस्या में उसके समाधान के बीज निहित होते हैं। प्रत्येक संकट में एक अवसर और नई खोज छिपी हुई होती है। बस इसके लिए संकट के समय धैर्य और सूझबूझ की आवश्यकता होती है, हालांकि यह काम मुश्किल है, क्योंकि परेशानी के समय अधिकांश लोग हड़बड़ा जाते हैं और अर्थ का अनर्थ कर लेते हैं। विरले लोग ही संकट से पार पाते हैं और जो इन्हें सुलझाना सीख लेते हैं, वे इतिहास रच देते हैं।

यह कोई नई बात नहीं है कि संकट से अवसर निकलते हैं। जब भी आपके सामने कोई संकट आए तो कागज कलम लेकर बैठ जाएं। अपने संकट को कागज पर लिखें। इसके बाद लाइन खींचकर एक जगह पर संकट से होने वाले बुरे परिणामों को लिखें और दूसरी ओर ये लिखें कि उस संकट में से क्या बेहतर आप निकाल सकते हैं। यह नीति अत्यंत कारगर है। एक बार अपनी इस नीति को अपनाने का प्रयास कीजिए, यकीन मानिए कागज पर लिखने के साथ-साथ आपका संकट न केवल बहुत कम हो जाएगा, बल्कि आप उन्हीं संकटों से नए अवसर निकाल लेंगे। संकट केवल उनके लिए ही परेशानी उत्पन्न करते हैं जो उनमें समस्याएं देखते हैं। जीवन में किसी भी कार्य एवं वस्तु को दो तरह से देखा जा सकता है-एक उनमें अच्छाई देखकर और दूसरा उनमें बुराई देखकर।

प्रत्येक कार्य में अच्छाई देखने वालों के लिए संकट सदा ही सफलता का मार्ग बनते हैं। यदि आप चाहते हैं कि कुछ ऐसा कार्य करें जिसकी सराहना पूरे विश्व में हो तो अभी से संकट के मार्ग को तलाशना आरंभ कर दें, अवसर उसका अगला पड़ाव हैं और प्रगति मंजिल जो लोग संकटों के बीच में रहकर मुस्कराना जानते हैं, वही आने वाले समय में बड़ी सफलता के हकदार होंगे

# मंगल मिशन से बंधी उम्मीदें

एक नए अध्ययन के अनुसार अरबों वर्ष पहले मंगल पर जीवन था। तब पृथ्वी पर जीवन की उत्पत्ति नहीं हुई थी। इस अध्ययन के अनुसार लाल ग्रह पर उल्कापिंडों का प्रहार बंद होने के बाद करीब 4.48 अरब वर्ष पहले मंगल पर हालात जीवन के लिए अनुकूल थे। 'नेचर जियोसाइंस' में प्रकाशित अध्ययन के लेखक डेसमंड मोसेर ने कहा कि संभव है कि 4.5 अरब से 3.5 अरब वर्ष के बीच वहां जीवन पनपा हो। करीब 4.2 से 3.5 अरब वर्ष पहले मंगल की सतह पर उल्कापिंडों के जो जबर्दस्त प्रहार हुए थे, उन्होंने ग्रह के भीतरी भागों से पानी बाहर निकालने की प्रक्रिया को तेज किया होगा।

इससे जीवन-निर्माण में सहायक क्रियाओं के लिए आधार तैयार हुआ होगा। इस अध्ययन से मंगल पर नमूने एकत्र करने के लिए उपयुक्त स्थल चुनने में मदद मिलेगी। इसके शोधकर्ताओं ने मंगल पर मौजूद प्राचीनतम खनिजों का विश्लेषण किया। उन्होंने इलेक्ट्रॉन माइक्रोस्कोपी और एटम प्रोब टोमोग्राफी के जरिये मंगल के उल्कापिंडों में मौजूद जिरकॉन और अन्य कणों की छानबीन की। यह माना

मंगल पर मौजूद क्यूरिऑसिटी रोवर की तुलना में नासा के नए रोवर में और उन्नत उपकरणों से अहम सुराग मिल सकते हैं

जाता है कि मंगल की उत्पत्ति 4.6 अरब वर्ष पहले हुई और करीब छह करोड़ वर्ष बाद पृथ्वी अस्तित्व में आई। वैज्ञानिकों का अनुमान है कि पृथ्वी पर जीवन की शुरुआत 3.5 अरब वर्ष पहले हुई थी। मंगल पर जीवन चिन्हों की तलाश के लिए नासा अगले वर्ष गर्मियों में एक नया 'रोवर' लाल ग्रह पर भेजेगा।

फिलहाल मंगल पर मौजूद क्यूरिऑसिटी रोवर की तुलना में इस नए रोवर के सभी उपकरण अधिक शक्तिशाली होंगे। नासा के इंजीनियर इस रोवर को अंतिम रूप देने में जुटे हैं। पिछले दिनों उन्होंने रोवर में सुपरकैम मास्ट यूनिट फिट किया जो कि रोवर का अत्यंत महत्वपूर्ण अंग है। सुपरकैम क्यूरिऑसिटी रोवर पर लगे केमकैम का उन्नत रूप है। इसमें रमन स्पेक्ट्रो-फोटोमीटर, इंफ्रारेड स्पेक्ट्रो-फोटोमीटर और एक टेलीफोटो कैमरा शामिल है। इसे

अमेरिका, फ्रांस और स्पेन के शोधकर्ताओं ने मिलकर तैयार किया है। नासा के विशेषज्ञों का कहना है कि सुपरकैम की मदद से रोवर मंगल के नमूनों का विश्लेषण करके उनमें जीवन के संकेत खोजने का प्रयास करेगा, भले ही ग्रह के जीवाणु लाखों वर्ष पहले मर चुके हों। सुपरकैम की विशेषता यह है कि वह छह मीटर की दुरी पर भी किसी नमूने पर फोकस कर सकता है। इससे पृथ्वी स्थित रोवर के नियंत्रकों को नया नमूना स्कैन करने के लिए रोवर में बार-बार समायोजन करने की जरूरत नहीं होगी।

उम्मीद है कि जल्द ही नासा शोधकर्ता रोवर पर नमूना एकत्र करने वाला सिस्टम लगाएंगे। यह उपकरण मंगल की मिट्टी से नमूने एकत्र करने के लिए 17 मोटरों का प्रयोग करेगा। ये नमूने रोवर में संभाल कर रखे जाएंगे। भविष्य में एक ऐसा मिशन मंगल पर भेजा जाएगा जो इन्हें एकत्र करके पृथ्वी पर लाएगा। मार्स 2020 रोवर फरवरी 2021 में मंगल पर पहुंचने के बाद जजीरो क्रेटर पर उतरेगा। लाल ग्रह की सतह पर सक्रिय होने के बाद यह रोवर उन जैविकों की तलाश करेगा, जिन्हें क्यूरिऑसिटी रोवर के उपकरण अभी तक पकड़ नहीं पाए हैं। (लेखक स्वतंत्र टिप्पणीकार हैं)

#### सुरक्षा के लिए मंडराते नेताजी

एरियाना ग्रैंडे

क्रिस्टियानो रोनाल्डो

राजनीति में नेताओं के इर्द-गिर्द अमला-फौज की मौजूदगी उनकी ताकत और प्रभाव का अहसास कराती है। इसमें जब नेता के पास केंद्र की ओर से मुहैया कराई गई कुछ विशेष श्रेणियों की सुरक्षा हो तो फिर बात ही एकदम अलग हो जाती है? कई नेता तो इस विशेष सुरक्षा श्रेणी को अपनी सियासत चमकाने का खास हथियार बनाने से गुरेज नहीं करते। सुरक्षा की समीक्षा के बाद हाल में केंद्र सरकार ने कई नेताओं की सुरक्षा हटा

या घटा दी है। अब जब सियासत चमकाने का यह हथियार अचानक छिन जाए तो नेताजी का परेशान होना लाजिमी है। इसीलिए सुरक्षा से वंचित किए गए उत्तर प्रदेश, बिहार, पंजाब और बंगाल सरीखे कई राज्यों के ऐसे नेता इन दिनों गृहमंत्री अमित शाह से मिलने के लिए संसद भवन स्थित उनके कार्यालय के बाहर मंडराते नजर आते हैं। बहरहाल कमांडो के लिए गृहमंत्री के बाहर खुद कमांडो की तरह मंडराते रहने की नेताजी की कसरत कितनी कामयाब होगी यह तो वक्त ही बताएगा।

#### पहचान का संकट

सत्रहवीं लोकसभा में भारी बहुमत से जीतकर आई भाजपा में कई ऐसे सांसद भी हैं जो चुनावों से ठीक पहले अपनी मूल पार्टी छोड़कर भाजपा में शामिल हुए और चुनाव भी

#### राजरंग

जीत गए। इनमें से कुछ विधायक रहे हैं तो कुछ पहले भी लोकसभा में रह चुके हैं, लेकिन भाजपा के टिकट पर जीतकर आने के बावजूद संसद में उनके सामने पहचान का संकट बना हुआ है। चूंकि भाजपा में भी कई नेता पहली बार चुनाव में जीत कर आए हैं इसलिए ऐसे सांसदों में आपसी जान-पहचान नहीं के बराबर हैं। दूसरे

दलों से भाजपा में आए ये नेता अपनी ही पार्टी में उपेक्षित सा महसूस कर रहे हैं, लेकिन इन्होंने भी अब पार्टी में अपनी जान-पहचान बढ़ाने का तरीका निकाल लिया है। ये लोग अपनी पुरानी पार्टी के वरिष्ठ नेताओं की मदद से भाजपा में अपनी पहचान के संकट को दूर करने की कोशिश कर रहे हैं।

#### फिटनेस फ्रेंड्स

राजनीति के मंच पर सत्तापक्ष और विपक्ष के सदस्य भले ही एक दूसरे पर तीखी टिप्पणी करते हों, लेकिन एक जगह ऐसी भी है जहां वे आपस में प्रतिस्पर्धा कर एक दूसरे के मित्र बन रहे हैं। सत्रहवीं लोकसभा के कई ऐसे सदस्य हैं जो अपनी फिजिकल फिटनेस को लेकर बेहद संजीदा रहते हैं। यही वजह है कि आजकल इन सदस्यों ने लोदी गार्डन से लेकर कांस्टीट्यूशन क्लब तक हर जगह फिटनेस के मामले में अनौपचारिक ग्रुप बना लिए हैं। ये समूह पार्टी लाइन से बाहर हैं और इनमें चर्चा राजनीति की नहीं, बल्कि इस बात की होती है कि किसने कितने किलोमीटर वॉक किया और कितने मिनट तक स्विमिंग की। इनमें ज्यादातर ऐसे सदस्य शामिल हैं जो पहली बार सदस्य चुनकर आए हैं। कुछ

सदस्यों ने तो अपने आशियाने में ही कुछ व्यवस्था कर ली है। एक सदस्य महोदय ने बाकायदा क्रिकेट पिच बना रखी है। बताते हैं वह खुद भी बॉलिंग करते हैं। बहरहाल राजनीति न सही कम से कम फिटनेस के मामले में वे एक दूसरे के मित्र हैं।

#### अध्यक्ष जी का डर

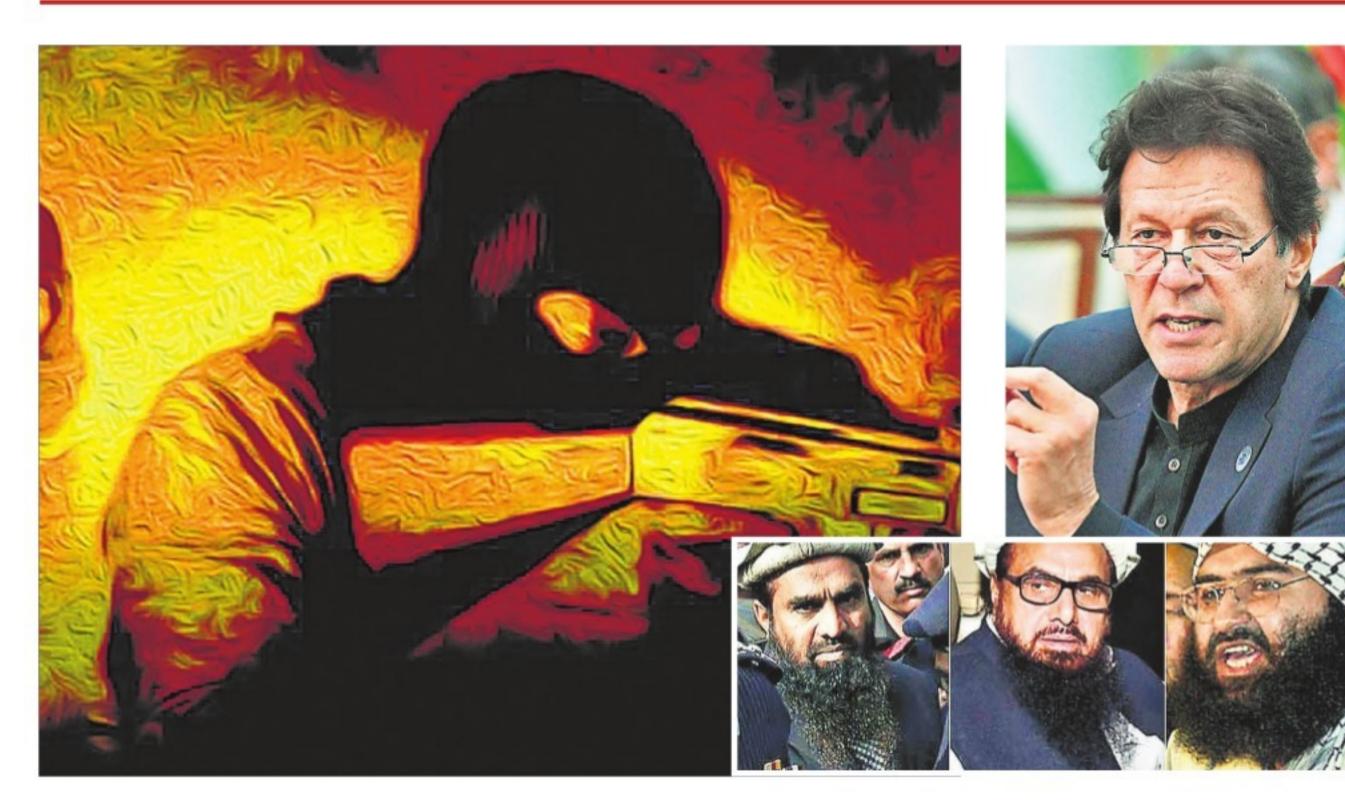
अमित शाह के राज्यसभा से लोकसभा में आने के बाद निचले सदन के कई पुराने सांसदों की सांसें अटक गई हैं। पिछली लोकसभा में हर मुद्दे पर बढ़-चढ़कर बोलने वाले और टोका-टोकी करने वाले ये सांसद अब किसी तरह बच निकलने की कोशिश करते दिख रहे हैं। इनमें एक सांसद ने तो अपनी सीट ऐसी जगह अलॉट करा ली थी कि सत्ता पक्ष की ओर से किसी भी मंत्री के बोलने की स्थिति में कैमरे के फ्रेम में वह खुद-ब-खुद आ जाया करते थे। जाहिर है कि खुद को प्रचार दिलाने के लिए इससे अच्छा मौका नहीं हो

> सकता था, लेकिन इस बार यह सांसद महोदय पीछे दीवार के साथ बैठे नजर आते हैं। वैसे लोकसभा में अभी तक सांसदों को बैठने के लिए सीटें आवंटित नहीं हुई हैं, लेकिन लग यही रहा है कि इस बार ये सांसद अपनी सीट पीछे की दीवार के साथ रखने की कोशिश करेंगे ताकि अध्यक्ष की नजरों के सामने पड़ने से बच सकें।

संस्थापक-स्व. पूर्णचन्द्र गूप्त. पूर्व प्रधान संपादक-स्व.नरेन्द्र मोहन.संपादकीय निदेशक-महेन्द्र मोहन गुप्त. प्रधान संपादक (राष्ट्रीय संस्करण ) -विष्णु प्रकाश त्रिपाठी 1-43166300, नोएडा कार्यालय ः 0120-4615800, E-mail: delhi@nda.jagran.com, R.N.I. No. DELHIN/2017/74721 \* इस अंक में प्रकाशित समस्त समाचारों के चयन एवं र । हेतु पी.आर.बी. एक्ट के अंतर्गत उत्तरदायी। समस्त विवाद दिल्ली न्याया धीन ही होंगे। हवाई शुल्क अतिरिक्त।

पटना, रविवार 28.07.2019

– नफीसा शाह, महासचिव, पाकिस्तान पीपुल्स पार्टी



पाकिस्तानी जमीन पर पल रहे हथियारबंद जिहादियों की संख्या बता कर प्रधानमंत्री इमरान खान ने दुनिया के सामने एक नया ढोंग रचा है . दरअसल, नफरत और साजिश की नीतियों के रास्ते पर पाकिस्तानी सत्ता को चलानेवाली वहां की सेना और आइएसआइ ऐसे प्रपंच रचने में माहिर है . आतंकवाद से खुद को पीड़ित बताना और जम्मू-कृश्मीर व अफगानिस्तान समेत समूचे दक्षिण एशिया में आतंकियों की सप्लाइ करना पाकिस्तान की राष्ट्रीय नीति है . आतंकवाद के खिलाफ वैश्विक मुहिम में पाकिस्तान की छद्म भूमिका उसे गैर जिम्मेदार मुल्क की पहचान दे चुकी है . इमरान के हालिया बयान के निहितार्थ, पाकिस्तान में आतंकियों की मौजूदगी और विशेषज्ञ की टिप्पणी के साथ प्रस्तुत हैं आज का इन दिनों . . .

# आतंकपरस्त नीतियों से दुनिया भर में फजीहत

# हरकतों से बाज आयेगा पाक!

#### पाकिस्तान प्रायोजित आतंक

पाकिस्तान पर आतंकियों को पालने का आरोप भारत, अफगानिस्तान और ईरान ही नहीं, बल्कि अमेरिका, ब्रिटेन और अन्य यूरोपीय देश भी लगाते हैं . पाकिस्तान अधिकृत कश्मीर और अफगानिस्तान से लगे सीमावर्ती जनजातीय इलाकों में पाकिस्तानी सह पर कई आतंकी कैंप संचालित हो रहे हैं . वर्ष 1979 से ही पाकिस्तान धार्मिक उन्मादियों को संरक्षण देकर दक्षिण एशिया क्षेत्र में आतंक को उकसावा दे रहा है . भारत के खिलाफ आतंकियों को फंडिंग, ट्रेनिंग और हथियार मुहैया कराने में आइएसआइ और पाकिस्तानी सेना की सक्रिय भूमिका है.

#### अफगान आतंकियों से जुड़े पाकिस्तानी आतंकी

बीते 26 फरवरी को भारतीय वायुसेना द्वारा बालाकोट के आतंकी कैंपों पर स्ट्राइक के बाद पाकिस्तानी आतंकियों ने नये सिरे से तैयारी शुरू कर दी है . इंटेलीजेंस इनपुट के अनुसार पाकिस्तान स्थित आतंकी संगठनों जैश-ए-मोहम्मद और लश्कर-ए-तयबा ने अफगान चरमपंथी संगठनों हक्कानी नेटवर्क और अफगान तालिबान से साथ हाथ मिलाया है . पाकिस्तानी आतंकी अपने कैंपों को अफगानिस्तान से लगी अंतराष्ट्रीय सीमा के निकट कांधार और कुनार में शिफ्ट कर रहे हैं.

#### वैश्विक आतंकियों की भी पनाहगाह

भारत में हमले के आरोपी आतंकी पाकिस्तान में खुलेआम घूमते और रैलियां करते हैं . आइएसआइ और पाकिस्तानी सेना इन आतंकियों के लिए अनुकूल माहौल तैयार करती है. संयुक्त राष्ट्र द्वारा प्रतिबंधित आतंकी संगठन लश्कर-ए-तयबा और जैश-ए–मोहम्मद जैसे खुंखार आतंकी संगठन भारत के खिलाफ पाकिस्तान में बैठकर भडकाऊ बयान देते हैं . पाकिस्तानी में छिपे ओसामा बिन लादेन को एबटाबाद में अमेरिकी कमांडो ने ऑपरेशन कर मौत के घाट उतार दिया था . मुंबई 26/11 हमले का सरगना हाफिज सईद और अन्य आतंकी सैयद सलाहुद्दीन, मसूद अजहर और दाऊद इब्राहिम आदि पाकिस्तानी में शरण ले रहे हैं.

जून में इमरान खान ने प्रधानमंत्री नरेंद्र मोदी को पत्र लिखकर दोनों देशों के बीच बातचीत बहाली का अनुरोध किया था . उसी समय ट्रंप प्रशासन ने पाकिस्तान से कहा था कि वह अपनी धरती पर हो रही आतंकी गतिविधियों और भारत में हो रहे घुसपैट को रोके . राष्ट्रपति ट्रंप ने भी पाकिस्तानी प्रधानमंत्री के सामने कहा है कि आतंक पर लगाम लगाने में पाकिस्तान की भूमिका संतोषजनक नहीं रही है . उल्लेखनीय है कि इस वजह से पिछले साल उन्होंने अमेरिकी आर्थिक सहायता को भी रोक दिया था .

# पाकिस्तान ने ६९ संगठनों पर लगाया प्रतिबंध



पाकिस्तान की नेशनल काउंटर टेररिज्म अथॉरिटी (एनएसीटीए) अब तक (फरवरी 2019 तक) 69 आतंकी संगठनों पर प्रतिबंध लगा चुकी है . एनसीटीए ने वर्ष 2001 में लश्कर-ए-झांगवी पर प्रतिबंध लगाने के साथ ही आतंकी संगठनों को गैरकानूनी घोषित करना शुरू किया था . एनसीटीए के अनुसार, जिन आतंकी संगठनों को पाकिस्तान ने गैरकानूनी घोषित किया है, उनमें बड़ी संख्या बलूचिस्तान, गिलगिट-बाल्टिस्तान और फाटा स्थित संगंडनों की है . एनसीटीए दस्तावेज के अनुसार, उसने जिन संगढनों पर प्रतिबंध लगायाँ है, उनमें तहरीक-ए-तालिबान पाकिस्तान (अफगानिस्तान), बलूचिस्तान रिपब्लिकन आर्मी, बलूचिस्तान लिबरेशन फ्रंट, लश्कर-ए-बलूचिस्तान, बर्लूचिस्तान लिबरेशन यूनाइटेड फ्रंट, तंजीम नौजवान-ए-अहले सुन्नत, गिलगिट, अंजुमन-ए-इमामिया गिलगिट बाल्टिस्तान और मुस्लिम स्टूडेंट्स ऑर्गनाइजेशन गिलगिट शामिल हैं . इसके अलावा

अब्दुल्लाह आजम ब्रिगेड ( लेबनान, सीरिया व अरब प्रायद्वीप), इस्ट तुर्कमेनिस्तान इस्लामिया मूवमेंट (तुर्की, अफगानिस्तान), इस्लामिक मूवमेंट ऑफ उज्बेकिस्तान (उज्बेकिस्तान) व इस्लॉमिक जिहाद यूनियन ( उज्बेकिस्तान, अफगानिस्तान, जर्मनी ) पर भी प्रतिबंध लगाया गया है . वहीं गुलामन-ए-सहाबा और मयमार ट्रस्ट पर पाकिस्तानी सरकार की नजर है, जबिक अल अख्तर ट्रस्ट को संयुक्त राष्ट्र सुरक्षा परिषद् के प्रस्ताव के तहत गैरकानूनी घोषित किया गया है . इतना ही नहीं, बढते वैश्विक दबाव के कारण हाफिज सईद के संगठन जमात-उद-दवा और इसके धर्मार्थ संगठन फलह-ए-इंसानियत फाउंडेशन पर भी इस वर्ष की शुरुआत में पाकिस्तान ने प्रतिबंध लगा दिया है . हालांकि, इसने हिज्बुल मुजाहिदीन, हरकत-उल-मुजाहिदीन और जम्मू-कश्मीर में सक्रिय अल बद्र जैसे प्रमुख आतंकी संगठनों को प्रतिबंधित नहीं

# इमरान मुखौटा, बयान की नहीं कोई अहमियत



आतंकी

रोके

गतिविधियां

पाकिस्तान :

अमेरिका

अजय साहनी रक्षा विशेषज्ञ

मुंबई हमला हो, उरी हो या पटानकोट हो, न तो इमरान के बयान से ये रुकेंगे न ही भारत के किसी नेता के बयान से. यह सब सैन्य क्षमता और राजनीतिक इच्छाशक्ति से ही रुकेंगे.

किस्तान शुरू से ही यह कहता आ रहा है कि वह खुद आतंकवाद का शिकार है. लेकिन, पाकिस्तान की इस **ा** बात पर कोई एतबार करने को तैयार नहीं है, क्योंकि पूरी दुनिया ने देख लिया है कि पाकिस्तान की तरफ से किस हद तक आतंकवाद को समर्थन मिलता रहा है. इसलिए मैं समझता हूं कि ऐसे बयानों से कोई फर्क नहीं पड़ता है, जब तक आतंकवाद पर कोई ठोस कार्रवाई न हो.

पाकिस्तान के प्रधानमंत्री इमरान खान जो कह रहे हैं, उसको कोई अहमियत नहीं देनी चाहिए. इमरान खान के पास कोई ताकत नहीं है, वह एक मुखौटा मात्र हैं. पाकिस्तान की सरकार को वहां की सेना चलाती है. लोगों की यह गलतफहमी है कि अमेरिका का वहां की सरकार में दखल है. अमेरिका उसको पैसा भले देता है, लेकिन वह वहां कुछ नहीं कर सकता. अफगानिस्तान में अमेरिका ने सालों तक एड़ी-चोटी का जोर लगाये रहा कि तालिबान को खत्म कर दिया जाये, लेकिन वहां पर अपने सैनिक गंवाने के अलावा अमेरिका को कुछ भी हासिल नहीं हुआ. जाहिर है, अफगानिस्तान में अमेरिका की कोशिशों पर हमेशा पाकिस्तान कुंडली मारकर बैठ जाता है, इसलिए अमेरिका को कुछ भी हासिल नहीं होता. अमेरिका दुनिया का अकेला ऐसा देश है, जो यह बर्दाश्त नहीं करता कि उसका एक भी आदमी मरे, जबकि दुनियाभर में हजारों-लाखों को मरवा देने में अमेरिका जरा भी नहीं हिचकता. अगर अमेरिका सचमुच पाकिस्तान की सरकार में दखल रखता, तो पाकिस्तान में आज एक भी आतंकी जिंदा नहीं रहता.

पाकिस्तान अपनी हरकतों से बाज नहीं आया कभी. वह यही चाहता रहा है कि उसकी हकरतें बरकरार रहें और दुनिया उसको पैसा देती रहे. मजे की बात यह है कि दुनिया के कई देशों से उसको यह सब करने के लिए पैसे भी मिलते रहे हैं. पाकिस्तान एक तरह से



ब्लैकमेल भी करता रहा है कि अगर उसे पैसा नहीं मिलेगा. तो वह अफगानिस्तान में हालात सुधरने नहीं देगा. दुनिया मदद करेगी तो वह तालिबान से बात करा देगा, लेकिन तालिबान पर उसका कोई अंकुश नहीं होगा. यही उसका दोहरा रवैया है. वह तालिबान को शह भी देता है और यह भी कहता है कि उस पर उसका अंकुश नहीं है. इसलिए दुनिया को इसका कोई हल नहीं मिल रहा है. और सीधी बात यह भी है कि दुनिया में उसके खिलाफ कार्रवाई करने की हिम्मत भी नहीं है. क्योंकि, कोई भी देश यह जोखिम नहीं उठाना चाहता है.

इमरान खान ने आतंकवाद के प्रशिक्षण के लिए कश्मीर और अफगानिस्तान पर जो दोष मढ़ा है, वह निहायत ही गलत और बेबुनियाद आरोप है. इमरान पाकिस्तान की गलती को इन दो जगहों पर डाल रहे हैं. इन दोनों जगहों की समस्या का मूल कारण पाकिस्तान है. अफगानिस्तान में हजारों निर्दोष लोग मार दिये गये, जबिक वहां अफगानिस्तान की समस्या ही नहीं थी. समस्या तो पाकिस्तान में थी, लेकिन अमेरिका ने अफगानिस्तान में अपने सैनिक भेज दिये. अफगानिस्तान के मसले का हल निकालने के लिए पहले पाकिस्तान

का हल निकालना पड़ेगा. अफगानिस्तान में तालिबान तो पूरी तरह से पाकिस्तानी समर्थन की बुनियाद पर टिका हुआ है. तो फिर यह अफगानिस्तान का मसला कैसे हुआ ? ठीक इसी तरह से कश्मीर की समस्या कश्मीर में नहीं है, उसकी समस्या पाकिस्तान है. कश्मीर से पाकिस्तान निकल जाये तो यह मुद्दा तुरंत खत्म हो जायेगा

मुंबई हमला हो, उरी हो या पठानकोट हो, न तो इमरान के बयान से ये रुकेंगे. न ही भारत के किसी नेता के बयान से. ये सब सैन्य क्षमता और राजनीतिक इच्छाशक्ति से ही रुकेंगे. हमारी क्षमता बस इतनी ही रह गयी है कि हम कश्मीर में ही जवाब दे सकते हैं, सरहद पार नहीं कर सकते. बालाकोट में हमने जो किया उसकी प्रतिक्रिया भी वहां से आ गयी, क्या कर लिया हमने? एक सीधी सी बात है, जब किसी के पास हार-जीत की क्षमता नहीं होती, तो वह बयानबाजी से काम चलाता है. इस मामले में पाकिस्तान से कुछ कम हम भी नहीं हैं. इसलिए इमरान के बयान का कोई अर्थ नहीं है. अगर भारत यह सोचता है कि पाकिस्तान उससे डरता है. तो यह भारत की गलतफहमी भी हो सकती है, क्योंकि पाकिस्तान तो अमेरिका से भी नहीं डरता, इसलिए अमेरिका को कोई फर्क नहीं पड़ता कि कश्मीर मसला हल हो या न हो. हमारे पास सिवाय बयानबाजी के रक्षा क्षेत्र को लेकर जब कोई तैयारी ही नहीं है. तब हम क्या किसी से लडेंगे. हमारी संसद में हई चर्चा को जरा देख लीजिये, आतंकवाद को लेकर जो भी बात कही गयी है, उसका क्या असर होगा? उसका यही होगा कि मुझे किसी से खुंदक है, तो मैं उसको पकड़ कर आतंकवादी घोषित करके जेल में डाल दुंगा. इसके अलावा आतंकवाद से लड़ने की हमने कोई क्षमता विकसित नहीं की है, जिससे कि देश में धार्मिक उन्माद भी न बढ़े और आतंकवाद भी खत्म हो जाये. क्या हमारे नेताओं में ऐसी राजनीतिक इच्छाशक्ति है?

#### आतंकियों की मौजूदगी स्वीकार की इमरान ने

पहली बार पाकिस्तान के शीर्ष नेतृत्व ने यह स्वीकार किया है कि बड़ी संख्या में जिहादी संगठन पाकिस्तान में सिक्रय हैं . अंतरराष्ट्रीय समुदाय के बढ़ते दबाव के बीच इमरान के इस कबूलनामें को दुनिया को एक संदेश के तौर पर देखा जा रहा है . वाशिंगटन में पाकिस्तानी प्रधानमंत्री ने कहा कि देश में 30 से 40 हजार के बीच हथियारबंद आतंकी हैं, जिनको कश्मीर और अफगानिस्तान में लंडने के लिए प्रशिक्षित किया गया है . भारत ने पाकिस्तान से आतंकियों पर कठोर कार्रवाई की मांग की है.

#### क्या बदल रहा है पाकिस्तान का मिजाज!

इमरान का बयान नया नहीं है, बल्कि पाकिस्तान की इस सच्चाई से दुनिया पहले से ही वाकिफ है . इमरान ने कोई गोपनीयता या अपनी आतंक परस्त नीति को उजागर नहीं किया है . वर्षों से पाकिस्तानी नेता वैश्विक मंचों पर सच्चाई को स्वीकारने की बजाय 'पाकिस्तान आतंकवाद का सबसे बडा भुक्तभोगी है' की रट लगाते रहे हैं . जिहादी संगठनों से बातचीत या कार्रवाई की शुरुआत करने की कोशिश करनेवाले हर नेता को हटा दिया गया या दरकिनार कर दिया गया. पहली अफगान लड़ाई से ही जिहादी प्रोजेक्ट को पाकिस्तान सेना और आइएसआइ का उसे समर्थन मिलता रहा है .

#### इमरान का वक्तव्य और सच्चाई

इमरान खान द्वारा बतायी गयी जिहादियों की संख्या आश्चर्यजनक है. पाकिस्तान की आतंकरोधी एजेंसी एनएसीटीए की वेबसाइट के मुताबिक, पाकिस्तान के आतंक रोधी अधिनियम के तहत 40 संगठनों को सूचीबद्ध किया गया है, जिनमें 8307 सक्रिय आतंकियों का जिक्र है . यही सूची पाकिस्तान द्वारा फाइनेंशियल एक्शन टास्क फोर्स (एफएटीएफ) को सौंपी गयी है . एफएटीएफ वर्तमान में आतंकवाद पर पाकिस्तान द्वारा की जा रही कार्रवाई की समीक्षा कर रहा है . भारत के लिए इमरान का बयान अहम है, क्योंकि कश्मीर में सीमा पार आतंकवाद का मुद्दा भारत अरसे से उठा रहा है, जिसे पाकिस्तानी प्रधानमंत्री ने अब स्वीकार कर लिया है.

#### भारत की प्रतिक्रिया

इमरान खान द्वारा अपने अमेरिका दौरे पर यह स्वीकार किये जाने के बाद कि पाकिस्तान में 30 से 40 हजार हथियार बंद जिहादी सक्रिय हैं, भारत ने कड़ी प्रतिक्रिया दी है. भारतीय विदेश मंत्रालय के प्रवक्ता ने मीडिया ब्रीफिंग में कहा है कि पाकिस्तानी नेतत्व ने स्पष्ट रूप से



प्रायोजित आतंकवाद को स्वीकार किया है . उन्होंने कहा अब समय आ गया है कि पाकिस्तान आतंकियों और संगढनों पर कटोर व विश्वसनीय तरीके से कार्रवाई करे . प्रवक्ता ने अमेरिकी राष्ट्रपति द्वारा कश्मीर मसले पर दिये गये बयान की आलोचना की .

# पाकिस्तान में सक्रिय आतंकी

अलकायदा : वर्ष १९८८ में ओसामा बिन लादेन और मोहम्मद अतीफ ने पेशावर में इसकी स्थापना की थी. अफगानिस्तान में सोवियत घुसपैठ के खिलाफ लड़ रहे लड़ाकों को एकजुट करने के उद्देश्य से स्थापित इस संगठन के वर्तमान में तकरीबन 60 देशों में आतंकी सेल हैं. ओसामा बिन लादेन के मारे जाने के बाद अयमान अल-जवाहिरी इसकी कमान संभाल

हिज्बुल मुजाहिदीन : सितंबर 1989 में मास्टर अहसान डार ने कश्मीर घाटी में इस समूह की शुरुआत की थी. पाकिस्तान कब्जे वाले कश्मीर के मुजफ्फराबाद में इसका मुख्यालय है. इस समूह का मुखिया सैयद सलाहुद्दीन है. इस संगठन में कम-से-कम 1500 कैडर हैं. यह उन 32 आतंकी संगठनों में से एक है, जो आतंकवाद निरोधक धारा, 2002 (प्रिवेंशन ऑफ टेररिज्म

एक्ट ) के तहत प्रतिबंधित है. लश्कर-ए-तयबा : वर्ष 1990 में अफगानिस्तान के कुनर प्रांत में लश्कर-ए-तयबा की स्थापना हुई थी. वर्तमान में लाहौर के नजदीक मुरीदके से यह संगठन संचालित होता है. इसका मुखिया हाफिज मोहम्मद सईद है. यह संगठन जम्मू-कश्मीर के अलावा नयी दिल्ली, मुंबई, बेंगलुरु, वाराणसी, कोलकाता, गुजरात में भी आतंकी हमले

का जिम्मेदार है. भारत में गैरकानूनी गतिविधियां (रोकथाम) अधिनियम के तहत यह प्रतिबंधित है. अमेरिका, ब्रिटेन और संयुक्त राष्ट्र ने भी इस संगठन को प्रतिबंधित किया हुआ है.

जैश-ए-मोहम्मद : इस समूह की स्थापना जनवरी 2000 में मौलाना मसुद अजहर ने कराची में की थी. यह संगठन 31 दिसंबर, 2001 को भारतीय संसद पर हमले का जिम्मेदार है. भारत सरकार ने पोटा के तहत इस संगठन को प्रतिबंधित किया हुआ है.

हरकत-उल-मुजाहिदीन (पूर्व में हरकत-उल-अंसार) : हरकत-उल-अंसार की शुरुआत हरकत-उल-जिहाद अल-इस्लामी और हरकत-उल-मुजाहिदीन के विलय के बाद हुई थी, जिसका सरगना मौलाना सादतुल्लाह खान था. वर्ष 1997 में अमेरिका ने इसे आतंकवादी संगठन घोषित किया था. इस समूह ने नाम बदलकर फिर से हरकत-उल-मुजाहिदीन कर लिया . अन्य आतंकी संगठन : अल बद्र, जमीयत उल-मुजाहिदीन, लश्कर-ए-जब्बार, हरकत-उल-जेहाद-उल-इस्लामी, मुत्ताहिदा जेहाद कौंसिल, तहरीक-उल-मुजाहिदीन, अल उमर मुजाहिदीन समेत अनेक ऐसे आतंकी संगठन हैं. जो पाकिस्तानी जमीं से संचालित होते हैं.

#### भारत में आतंकी हमले

मुंबई आतंकी हमला: 26 नवंबर, 2008 को पाकिस्तानी आतंकी संगढन लश्कर-ए-तैयबा द्वारा मुंबई में किये गये 12 धमाकों में 174 लोगों की जान चली गयी.

पठानकोट हमला पढानकोट एयरफोर्स स्टेशन पर २ जनवरी, २०१६ को हुए आतंकी हमले में पांच हमलावर और सुरक्षा बल के तीन जवान मारे गये थे. सभी हमलावर जैश-ए-मोहम्मद से जुड़े थे

**उरी हमला** : 18 सितंबर, 2016 को उरी स्थित भारतीय आर्मी ब्रिगेड मुख्यालय पर चार आतंकियों ने ग्रेनेड फेंका था . कैंप के टेंट में आग लग गयी और 17 जवानों की जान गयी . इस हमले को जैश-ए-मोहम्मद शामिल था.

पुलवामा हमला : इसी वर्ष १४ फरवरी को जैश– ए-मोहम्मद के आत्मघाती हमलावर द्वारा सीआरपीएफ के काफिले पर किये गये हमले में 40 जवान शहीद हो गये थे.

#### पाक के घरेलू आतंकी संगठन

तहरीक-ए-तालिबान पाकिस्तान : 9

सितंबर, 2011 को ट्रेड टावर पर हुए हमले के

बाद नाटो द्वारा अफगानिस्तान में ऑपरेशन किये जाने के प्रतिक्रिया स्वरूप तहरीक-ए-तालिबान का गठन किया गया . बैतुल्लाह महसूद के नेतृत्व में 13 चरमपंथी समूहों द्वारा पाकिस्तान के फेडरली एडमिनिस्टर्ड ट्राइबल एरिया (फाटा) में इसकी स्थापना हुई थी सिपह-ए-सहाबा पाकिस्तान : सुन्नी समुदाय के इस आंतकी संगठन को पहले अंजुमन सिपह-ए-सहाबा के नाम से जाना जाता था . वर्ष 1985 में स्थापित इस संगठन का लक्ष्य शिया समुदाय को निशाना बनाना है. इस आतंकी समूह का गढन मौलाना हक नवाज झांगवी, मौलाना जिया–उर–रहमान फारूकी, मौलाना ऐसार-उल-हक कासमी और मौलाना आजम तारिक ने किया था . लश्कर-ए-झांगवी : इस सुन्नी-देवबंदी आतंकी समूह की स्थापना १९९६ में सिपह-ए–सहाबा के टूटने से हुई थी . वर्तमान में समूह का प्रमुख मुहम्मद अजमल है .

इन सभी घरेलू आतंकी संगढनों के अलावा लश्कर-ए-उमर, तहरीक-ए-नफज-ए-शरीयत-ए-मोहम्मदी, सिपह-ए-मोहम्मद पाकिस्तान समेत अनेक घरेलू संगठन पाकिस्तान में सक्रिय हैं, जो समय-समय पर आतंकी हमलों को अंजाम देते रहते हैं . इसके साथ ही अल–राशिद ट्रस्ट, अल-अख्तर ट्रस्ट, राबिता ट्रस्ट, उम्माह तमिर-ए-नाउ जैसे कई चरमपंथी समूह भी पाकिस्तान में सक्रिय हैं .