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Curtain raiser ceremony and website launch of two-day National Conference organised in New Delhi today on the occasion of 65th anniversary of adoption of the National Calendar of India

Chennai, March 23 2022: As part of Azadi ka Amrit Mahotsav Curtain raiser ceremony and website launch of twoday National Conference on the occasion of 65th anniversary of adoption of the National Calendar of India was held today in New Delhi. Dr. Srivari Chandrasekhar, Secretary, Department of Science and Technology; Dr. R. Ravichandran, Secretary, Ministry of Earth Sciences; Dr. Shekhar C. Mande, Director General, CSIR and Secretary, DSIR; Prof. Venu Gopal Achanta, Director, CSIR-NPL were among the dignitaries present on the occasion. Indian National Calendar', is a scientific expression of India's identity and was adopted constitutionally by our parliament in 1957.

Vijnana Bharati in association with Ministry of Culture, Department of Science and Technology, Council of Scientific and Industrial Research, Ministry of Earth Sciences and many other scientific organisations like IUCAA, IIA, Vikram University



organised the conference at days event in Ujjain and National level.

Dr. Srivari Chandrasekhar, Secretary, Department of Science and Technology today said "I am delighted that the Ministry of Science and Technology and Ministry of Culture and many other and it is significant that we labs have joined today to reconnect ourselves with what we have lost in our calendar which is in past." And hopefully this is a new beginning for all of us which we should take seriously, he also added.

While addressing at the

Ujjain, IIT Indore, etc., and NISCAIR highlighted social scientific about the importance of organisations like chaitya 1944 for the Rashtriya Dindarshika Indians. She mentioned Prachar Manch, etc. have that we are organising two

Dongla in collaboration

with various ministries,

organisations in order to

promote national calendar. Prof. Venu Gopal Achanta, Director, CSIR-NPL said the calendar is scientifically established are organising this event and promoting our own existence for a quiet long time but it needs to be pushed, accepted and brought into our daily life.

A Two-Day occasion, Dr. Ranjana Conference and Exhibition Aggarwal, Director, CSIR- on the National Calendar this conference.

of India have been scheduled on April 22-23, 2022 at Ujjain and Dongla passed order against (a place on the tropic of

six curtain-raisers of this event have been scheduled NPL, New Delhi; 29 Institute of Astrophysics, Bengaluru; 05 April 2022 at S. N. Bose National Centre for Basic Sciences, Kolkata; 06 April 2022 at Guwahati; 10 April 2022 at Central University of Jammu, Jammu and on 11 April 2022 at University of Mumbai, Mumbai.

These curtain raisers will make the youth aware about the Indian National registrations have been opened for participation in this event on the website created for this event on http://bharatcalendar.in. Selected participants will

be given an opportunity to join the conference at Ujjain. An Expo related to the same, lectures, panel discussion and observation works in 60 seconds". sessions will be the part of

Central Consumer Protection Authority passes order against advertisements of Sensodyne products

The Central Consumer Protection Authority (CCPA) headed by Nidhi Khare recently misleading advertisements of Sensodyne products which make the claims To promote and "Recommended by dentists popularise the conference worldwide" and "World's No.1 sensitivity toothpaste".

It may be mentioned on 22 March 2022 at CSIR-that, previously, on 09.02.2022, CCPA had March 2022 at Indian passed order directing discontinuation of advertisement of Sensodyne products which show endorsement by foreign

it may be mentioned that CCPA had initiated suomoto action against advertisement of Sensodyne products on various platforms including Television, Youtube, Facebook and Twitter showing dentists practicing outside India (practicing in Calendar. Online the United Kingdom) endorsing the use of Sensodyne products namely Sensodyne Rapid Relief and Sensodyne Fresh Gel for protection against teeth sensitivity and making claims that Sensodyne is "Recommended by dentists worldwide", "World's No. 1 sensitivity toothpaste" and "clinically proven relief,

> After examination of the response submitted by the company, CCPA observed that the two market surveys submitted by the company in support of its claims "Recommended by dentists further action will be worldwide" and "World's initiated after the hearing



No.1 sensitivity toothpaste" made in the advertisements were conducted only with dentists in India. No cogent study or material were submitted by the company to substantiate the claims made in the advertisements or works in 60 seconds", the indicate any worldwide matter now rests with prominence of Sensodyne Assistant Drug Controller, products. Thus, the claims were observed to be bereft of Silvassa. any reason or justification.

of "clinically proven relief, works in 60 seconds", CCPA had written to the Drugs make the claims Controller General of India, Central Drugs Standard Control Organization (CDSCO) to furnish its comments on the correctness of the claims made by the of ₹10,00,000. Also, company. CDSCO has advertisements which show directed The Assistant Drug Controller, Licensing Authority, Silvassa to investigate the claims made by the company since the product in question is manufactured under cosmetic license granted by State Licensing Authority, Silvassa. The Assisting Drug Controller has written to CCPA stating that the claims made by the company are under investigation and

process. In view of the communication received from CDSCO and Assistant Drug Controller, Licensing Authority, Silvassa as regards the claim of "clinically proven relief, Assistant Drug Controller, State Licensing Authority,

Therefore, CCPA has With respect to the claim ordered discontinuation of advertisements of Sensodyne products which "Recommended by dentists worldwide" and "World's No.1 sensitivity toothpaste" within seven days and directed payment of penalty endorsements by foreign dentists have been ordered to be discontinued as per the earlier order passed by

> In the wake of consumer sensitivity around Covid-19 pandemic, CCPA took stringent action against misleading advertisements whereby 13 companies withdrew their advertisements and 3 companies made corrective

Further, to safeguard consumer interest against misleading advertisements and unfair trade practices, CCPA has also issued two advisories. The first advisory was issued on 20.01.2021 calling industry stakeholders to cease making misleading claims that take advantage of the Covid-19 pandemic situation and are not supported by any competent and reliable scientific evidence. The second Advisory was issued on 01.10.2021 highlighting compliance of the provisions of Consumer Protection (ecommerce) Rules, 2020 which require every marketplace e-commerce entity to prominently display all information provided to it by seller under Rule 6(5) including name, designation and contact information of the grievance officer of the

CCPA has also issued two Safety Notices under Section 18(2)(j) of the Act alerting consumers against buying goods which do not hold without valid ISI Mark and violate the BIS standards directed for compulsory use by the Central Government. While the first Safety Notice was issued on 06.12.2021 in reference to Helmets, Pressure Cookers and Cooking gas cylinders, the second Safety Notice was issued on 16.12.2021 in reference to household goods including electric immersion water heaters. sewing machines, microwave ovens, domestic

Ministry of Civil Aviation organizing WINGS INDIA **2022' from 24th - 27th March 2022 in Hyderabad**

Chennai, March 23 2022: Ministry of Civil Aviation(MOCA) and FICCI are jointly organizing WINGS INDIA 2022 - Asia's largest event on Civil Aviation (Commercial, General and Business Aviation), providing a congenial rapidly changing dynamics of the sector. It focuses on in the area of Civil Aviation concerns of the new business acquisition, in India. The prestigious stakeholders in the civil investments, policy Award Ceremony will be aviation sector. Hence, it formation and regional organized on Thursday, will consequentially bring connectivity. It will provide a much-desired side-lines of WINGS and business acquisition fillip to the aviation, and INDIA 2022. restructured focused forums shall be instrumental in attaining the objective of connecting the Buyers, Sellers, Investors, and other stakeholders at a common vantage forum 'WINGS INDIA 2022' from 24th -27th March 2022, Begumpet Airport, Hyderabad, India. Hyderabad being the hub of Aviation, remains the natural host of the event. MOCA is delighted to announce the launch of the next edition of "WINGS INDIA AWARDS 2022" for Excellence in the Civil Aviation Sector. As part of the country' Azadi Ka Amrit Mahotsav (AKAM), the theme of the event is "India@75: New Horizon for Aviation Industry".

"WINGS INDIA AWARDS" will be conferred upon the Aviation-related Companies/Institutions/Or ganizations that have



Shri Jyotiraditya M Scindia, Minister of Civil Aviation will be formally inaugurating the event on 25th March, 2022. Several foreign dignitaries, ambassadors, various sectors of Aviation like Airlines, Airport Operators, Airports Agencies, Civil Aviation Authorities, Consultant, Engineering, Flight/ Simulator Training, Flight Operations Transportation, Maintenance\Repair & Overhaul Agencies, Pilot / Instructor, Sales, Service or Support etc. will be taking part in the event.

In his message for the event, Shri Scindia said "Wings India 2022 epitomizes the Government of India's commitment to transform India into the world's top civil aviation hub. I am confident that the forum that Wings India provides,

made notable contributions policy formation, with 25th March 2022, on the unprecedented investment opportunities, thereby creating millions of jobs for those looking to enter this industry. Our new Helicopter Policy, Drone Policy, MRO Policy and Flying Training Organization Policy stand representatives from as testimony towards our commitment to streamline and promote the entry of Indian industry into opportunities that the Civil Aviation sector has to offer. I look forward to seeing all the stakeholders at Wings India 2022 and celebrating this incredible growth story of the Indian Civil Aviation

> Gen Dr. V.K. Singh (Retd.), Minister of State for Ministry of Civil Aviation has expressed his wishes for the event, "As India continues to emerge towards playing a dominant role globally, its aviation sector cannot be overlooked. This sector acts as a growth multiplier https://www.wingsincluding economic output, jobs and trade enabled

through better connectivity and has proved to be one of the largest contributors to the 'Make in India' initiative. WINGS INDIA 2022 is Asia's largest event on Civil Aviation, 2022: providing a congenial forum catering to the Pralhad Joshi said that the rapidly changing dynamics Coal Ministry is likely to of the sector, focusing on approach the Ministry of new business acquisition, Climate Change for certain investments, policy relaxation in norms so that formation and regional connectivity. With all measures taken, for India function for foundation Aviation, "the sky is the stone laying of four projects limit". I wish Wings 2022 of Northern Coalfields Ltd will be a huge success."

First two days i.e. 24th Display by SARANG has gone up considerably. Team (Indian Air Force), roundtable/panel underscored that sustained discussion on Helicopter supply of coal to the power Industry, Business importance. He urged CIL Aviation, Krishi UDAN, and the Ministry of Coal Golden Age of Drones, officials to deliberate upon India - US Roundtable with AMCHAM, Drone Demonstration, Inaugural Session: India@75: New Horizon for Aviation Industry, Global CEOs Forum, Wings India Awards 2022 ceremony etc. On 26th and 27th March, 2022, Exhibition & mesmerising Flying Display by SARANG Team (Indian Air Force) will be witnessed and will be open for general public.

For other information about event, website india.co.in. can be visited.

Pralhad Joshi Urges Coal Ministry and Coal India Ltd to Deliberate Upon Steps To Enhance Coal Production

Chennai, March 23 Coal, Mines and Parliamentary Affairs Shri Environment, Forest and overall coal production can be further increased. Addressing a virtual (NCL), Minister Shri Joshi urged Coal India Ltd and its subsidiaries to further enhance production to attain and 25th March will have the set targets in coal different exhibition, production. He pointed out discussions, demonstration that with steep hike in international prices like Exhibition & Flying domestic demand for coal

> The Minister immediate measures

Union Minister of required to enhance coal production. The Minister asked Coal India to complete 35 First Mile Connectivity

projects as per the set deadlines. Shri Joshi complimented Northern Coal Field Ltd (NCL) for surpassing coal production

The foundation stone has been laid for the projects of Nigahi Coal Handling Plant (10 million ton per annum), Bina-Kakri Coal Handling Plant (9.5 million ton per annum), five lane concrete initiative is equally

road of 3.1 Km from Jayant to Singrauli and road of 49.6 Km for coal transportation in

Speaking on the occasion, Minister of State for Coal, Mines and Railways Shri Raosaheb Patil Danve said that NCL can play a crucial role in attaining production targets of one billion ton coal by 2025. While enhancing production, environmental concerns need to be addressed. Pro-people

important, the Minister

Addressing the function, Secretary Ministry of Coal Dr. Anil Kumar Jain said that investments need to be utilized properly within stipulated time to give more momentum to mechanised transportation of coal. Indian Railways will be requested to increase rake availability as per requirement, he said

The launch of E-book titled "Redefining Green" under the Sustainable Development Cell (SDC) was another highlight of the function attended by Coal India Ltd CMD Shri Pramod Agrawal, senior functionaries of the Coal Ministry, CIL and NCL.

Earlier, after the welcome address by Shri Bhola Singh, CMD, NCL a presentation on First Mile Connectivity (FMC) projects and road development projects in NCL was made by Director, (Tech/P&P).



Growth in export of Ayurvedic medicines

Chennai, March 23 2022: The Ministry has developed a Central Sector Scheme for Promotion of International Co-operation in AYUSH (IC Scheme) under which Ministry of Avush provides support to Indian Ayush Manufacturers/ Ayush Service providers to give boost to export of AYUSH products & services; facilitate International promotion, development and recognition of AYUSH system of medicine; foster interaction of stakeholders and market development of AYUSH at international level; promote academics and research through establishment of AYUSH Academic Chairs in foreign countries and holding training workshop/symposiums for promoting and strengthening awareness and interest about AYUSH Systems of Medicine at international level.

Ministry of Ayush has taken following steps towards promoting export of Ayurvedic medicines:

Ministry has signed 25 Country to Country MoUs for Cooperation in field of Traditional Medicine and Homoeopathy with foreign nations.

32 MoUs have been signed with international institutes for undertaking Collaborative Research / Academic collaboration.



Ayush Academic Chairs in foreign nations.

Ministry of Ayush has provided support for establishment of 38 Ayush Information Cells in 34 foreign nations.

The "Ayush Export Promotion Council" has been registered under section 8(4) of the Companies Act 2013 on 04th January, 2022 under the Ministry of Ayush in support of the Ministry of Corporate Affairs to tackle the obstacles for registration of AYUSH products abroad, undertaking of market studies and research activities abroad

Ministry of Ayush provides scholarship to foreign nationals under AYUSH Fellowship scheme.

MoUs have been signed with London School of Hygiene & Tropical Medicine (LSH&TM), UK and

14 MoUs have been Frankfurter signed with international Innovationszentrum institutes for setting up of Biotechnologie GmbH (FIZ), Frankfurt Germany for clinical research studies on mitigation of Covid-19 through Ayurveda.

> Ministry of Ayush issued advisories on protecting people from COVID and staying healthy in English as well as in 08 other foreign languages.

> Ministry of Ayush provides AYUSH Educational Training to regulators of foreign nations.

> Medicinal Plants are the major resources base for Ayurvedic medicines and to increase the availability of medicinal plants for Ayurvedic medicines, the National Medicinal Plants Board (NMPB), Ministry of Ayush under its "Central Sector Scheme for Conservation, Development and Sustainable Management of Medicinal Plants" has

State Forest Departments country. The project-based Planting Material (QPM) of medicinal plants and sustainable availability of medicinal plants raw material for Ayurvedic medicines.

place for collectors, farmers, traders of medicinal plants and ASU&H drug manufacturers. It facilitates trade of medicinal plants by providing a platform for sale, purchase of Medicinal plants raw material and also facilitate information exchange between various stakeholders involved in the medicinal plants sector. It is a multilingual platform available as Web and Mobile (IOS and Android) in 7 languages hosting agro-techniques of plants, GAP, GFC, postharvest management techniques, schemes, etc.

This information was given by Minister of Ayush Shri Sarbananda Sonowal in a written reply in Rajya Sabha today.

Revival of Ayurvedic medicines

Chennai, March 23 for resource augmentation 2022: Ayurvedic system of medicinal plants in the of medicine is an existing ancient traditional system financial assistance is also of medicine of India. Its provided to Government role has significantly been and Non-government boosted with the organizations for establishment of Ministry developing Quality of Ayush, which has resulted into focused growth of the sector in thereby ensure the terms of medical education, practice, manufacturing, research and International cooperation. The NMPB has developed significance and usage of "e-CHARAK" portal Ayurvedic medicines has which is a virtual market been further noticed during the wake of Covid -19.

Separate data of earning from selling Ayurvedic medicines is not available. However, as per records the total Ayush and herbal medicines export of India has been of US\$ 1.54 billion in the year 2020. (Source: Ayush Sector in India prospects and challenges published by Forum on India Traditional Medicines FITM-Research and Information Systems RIS-Ministry of AYUSH).

In domestic market Indian Medicines Medicinal and Aromatic Pharmaceutical Authority (SLA). The SLA Corporation Limited grants the licence after

(IMPCL), a Government verification of the required

of India Enterprises under infrastructural facilities, Ministry of Ayush has equipment / machinery, reported sale of Ayurvedic manpower of the &Unani Medicines of manufacturing unit about Rs. 164.02 Crore through inspection(s) during the year 2020-21.

Under the provisions of Drugs and Cosmetics Act, steps are being taken to 1940 and Rules made ensure safety and quality thereunder, it is mandatory of Ayurvedic medicines by for the manufacturer of the State Government Ayurvedic drugs to comply Officers empowered under with the prescribed Good Drugs and Cosmetics Act, Manufacturing Practices 1940 and Rules there (GMP) and quality under: standards of drugs given in the Ayurvedic Pharmacopoeia for obtaininglicence from the concerned State Licensing

conducted by the inspector.

Further, the following

(i) Survey samples, legal samples and market samples are drawn regularly and sent to Government Drug Testing Laboratory to ascertain the

quality of medicine.

(ii) Investigation of the complaints related to quality of Drugs.

(iii) Launch of prosecution in case of violation of Drugs and Cosmetics Act, 1940 and Rules thereunder.

There is one central appellate laboratory of Pharmacopoiea Commission of Indian Medicine & Homoeopathy (PCIM&H), Ghaziabad for testing of Ayurveda, Siddha, Unani and Homoeopathy (ASU&H) drugs. Apart from this 35 State Drug Testing Laboratories for testing of Ayurveda, Siddha, Unani and Homoeopathy (ASU&H) drugs are funded by the Ministry of Ayush through its schemes. Also, 67 Private **Drug Testing Laboratories** have been approved for testing of Ayushdrugs under Drugs & Cosmetics Rules 1945 as on 1st April,

This information was given by Minister of Ayush Shri Sarbananda Sonowal in a written reply in Rajya Sabha today.

Guidelines to restrict Ayush products of medicinal use

Chennai, March 23 2022: Instances of dubious claims and misleading advertisements of Ayush products have come to the notice of the Central Government. The Pharmacovigilance Centres for Ayurveda, Siddha, Unani and Homoeopathy Drugs set up in different parts of the country have reported 18812 objectionable advertisements since 2018 to December, 2021. On the Grievance against Misleading Advertisement (GAMA) portal of Department of Consumer Affairs, 1416 misleading advertisements of Ayush productsand services have been registered from April 2014 to July 2021

Further, in the year 2017-19, Advertising Standards Council of India (ASCI) under MoU with Ministry of Ayush has reported 1229 misleading advertisements of Ayush products.

The protocol or guidelines are in force to restrict Ayush products of medicinal use with dubious claims and for selling certain medicines under medical supervision.

The Drugs and Magic Remedies (Objectionable Advertisements) Act, 1954



encompass the provisions respective state Drug for prohibition of Licensing Authorities for misleading advertisements taking appropriate action and exaggerated claims of under the provisions of drugs and medicinal Drugs & Cosmetics Act, substances including Ayush 1940 and the Drugs & Magic improper advertisements. medicines and for the penalty to be imposed on the defaulters. The State/UT Governments are empowered to enforce the legal provisions under Drugs & Cosmetics Act, 1940 and the Drugs & Magic Remedies (Objectionable Advertisements) Act, 1954 and rules made there under.

The Pharmacovigilance Centres for Ayurveda, Siddha, Unani and Homoeopathy (ASU&H) Drugs set up in different parts of the country under the Central Sector Scheme of Ministry of Ayush are mandated to monitor and

Remedies (Objectionable Advertisements) Act, 1954.

Media regulators have also been approached to prevent the publication of inappropriate advertisements promoting sale of Ayurvedic and other such medicines in public interest. On this account, Ministry of Information & Broadcasting issued instructions/guidelines to all media channels to abstain from publishing and telecasting such misleading advertisements, which are in contravention of provisions of the Drugs and Magic Remedies (Objectionable report misleading Advertisements) Act, 1954

and Rules thereunder.

Ministry of Ayush issued an Advisory dated 31st August 2018 to the drug manufactures and the advertising agencies to refrain from using the name of Government Departments or Institutions in the advertisements of ASU & H Drugs. Also, Caution has been issued in November 2018 in leading newspapers for general public to not to fall prey to fake calls and advertisements of ASU & H Drugs. With the enforcement of these steps the advertisers have corrected or withdrawn the

Also, as per the provision of Rule 161 of Drugs Rules, 1945, it is mandatory for the container of a Ayurvedic, Siddha and Unani medicine for internal use to be labeled conspicuously with the words 'Caution: to be taken under medical supervision' both in English and Hindi languages, if the ingredients are made up from a substance (poisonous) specified in Schedule E(1).

This information was given by Minister of Ayush Shri Sarbananda Sonowal in a written reply in Rajya Sabha today.

Is HIF-1α an important factor in Diabetic Foot Ulcer patients???

Chennai, March 23 2022: Diabetic Foot Ulcers (DFU) is considered as one of the major medical and socio-economic problem, visualised in most of the diabetes patients leading to various long term complications and may result in high mortality rates. However, nearly 15% of diabetic patients are prone to suffer with foot ulcers at various stages and sometimes to leading adverse reaction such as amputation. One of major cause for recurrence of foot infection is due to peripheral neuropathy, which abnormally raises the foot pressure leading to DFU. The amputation rate among diabetic populations is higher compared to non-diabetic populations. More than 85% non- traumatic amputation rates arise from DFU patients which are considered as one the major factor for the cause of hospitalization in the DFU patients. Cellular responses in cells and tissues experience a low level of oxygen tension under physiological and pathological conditions which are often coined by the term as "hypoxia". Due to lack of medical interventions most of the populations affected with Diabetic Mellitus are prone to DFU and finally at the later stages leading to foot amputation. Also, ethnicity, genetic and environmental factors play major significant factor in determining the susceptibility of diabetic patients to other complications. In addition, HIF-1α acts an important cascade of various diseases and as well for pathogenesis of various biological processes under hypoxic conditions. To conclude, though HIF-1α is considered as most important critical gene involved in the hypoxia associated cellular mechanisms, it also paves a very important role in angiogenesis and wound healing mechanism.





Dr. Aravindha Babu, MDS, FICD (USA), Professor in Oral Pathology & Assistant Director of Centre of Oral Cancer Research, Sree Balaji **Dental College and Hospital,** Pallikaranai, Chennai and Dr. Jayalalitha S (PhD in Biotechnology) works for an MNC in India.



Defence Acquisition Council clears procurement of 14 items worth over Rs 380 crore from iDEX startups/MSMEs for Armed Forces

Chennai, March 23 In a pathbreaking initiative, Defence Acquisition Council (DAC), chaired by Raksha Mantri Shri Rajnath Singh, on March 22, 2022, cleared the procurement of 14 items worth Rs 380.43 crore from the Innovations for Defence Excellence (iDEX) startups/MSMEs. These items will be procured by the Indian Army, Navy and Air Force.

The DAC also approved the new simplified procedure for procurement from iDEX startups/MSMEs. This would fast-track the procurement from the startups/MSMEs. The procurement cycle from the AON to contract signing will be around 22 weeks as per the new procedure. Suitable incorporation will be made in the Defence Acquisition Procedure 2022. The DAC also approved the simplified



Make-II projects.

The iDEX, a game end. changer in the Defence e c o - s y s t e m, w a s has been instituted under launched by Prime the over-arching Minister Shri Narendra mission of the MoD to Modi in 2018 with the achieve self-reliance objective of fostering and indigenisation. The innovation and iDEX is catalysing the incorporating cutting- vibrant energy of our edge and disruptive startup eco-system and technologies in the is today steering trans-Armed Forces in a quick disciplin ary time-frame. The iDEX innovations/projects. An scheme, since its enterprising network of

procedure for Make-II initiative in 2018, has category projects on now gathered similar lines of iDEX momentum, and it is procedure and would expected that around 25considerably bring 40 items after the down the time taken successful prototyping from prototype by the iDEX development to startups/MSMEs, will Contract signing in be ready for procurement by this year

The iDEX scheme

experts from the Services, DPSUs, Industry, Academia, iDEX officials and the startups/MSMEs are of co-creation and coinnovation. The aim is to Armed Forces and the near future.

The five editions of

been a huge success and have witnessed startups/MSMEs. The breakneck pace to support more and more innovators and startups. startups/MSMEs are now entering the next phase, i.e., productionisation and commercialisation. This will indeed lead to the broad-basing of the defence industrial base.

In a first, Padma awardees 2022 visit National War Memorial, New Delhi; Pay floral tributes to the bravehearts who have laid down their lives in the service of the Nation

Chennai, March 23 2022: In a new initiative taken by the Government, led by Prime Minister Shri involved in the process Narendra Modi, Padma award winners for the year 2022 visited the National War Memorial (NWM), provide atleast 50 world New Delhi for the first class solutions to the time, on March 22, 2022. President Shri Ram Nath Kovind had conferred two defence industry in the Padma Vibhushan, eight Padma Bhushan and 54 Padma Shri Awards for the year 2022 at the Civil DISC and the various Investiture Ceremony-I Open Challenges have held at Rashtrapati Bhavan on March 21, 2022. The Civil Investiture Ceremony-II is scheduled tremendous interest and to be held on March 28, participation from the 2022. Those who visited NWM include Padma Bhushan winners Shri iDEX is scaling up at a Devendra Jhajharia & Shri Sachchidanand Swami and Padma Shri winners Sardar Jagjit Singh Dardi, Shri Kaajee Singh and Pandit i D E X Ram Dayal Sharma.

> The awardees went around the memorial, paying floral tributes to the Armed Forces personnel



nationalism. "The NWM is an and the Prime Minister for important monument as it will be a source of opportunity for them to schedule and pay homage inspiration for generations closely experience the to the country's brave to come. It has gained

memorial helps in

inculcating the values of

patriotism, devotion to

duty, courage & sacrifice

and instils the feeling of

from anywhere through the NWM and its efforts to digital kiosks set up within popularise the monument the NWM premises is as a place for people, another good initiative," especially the youth, to said Padma Shri award visit. The awardees were of winner (Trade & Industry) the view that the visit to the Sardar Jagjit Singh Dardi.

Another Padma Shri recipient (Art) Shri Kaajee Singh appreciated the distinct design and architecture of NWM and thanked both the President gallant deeds of the Armed

The NWM was dedicated to the Nation by Prime Minister Shri Narendra Modi on February 25, 2019. It stands testimony to the sacrifices made by the gallant soldiers since Independence. The monument houses the eternal flame which exemplifies the supreme sacrifice made by a soldier in the line of duty thus making him immortal. Since its inauguration, all homage ceremonies are conducted only at the NWM, including those on National Days. Every evening, Next-of-Kin (NoK) ceremony is held during which NoK of a fallen hero lays wreath at the Memorial, remembering the supreme sacrifice made by the soldier. Dignitaries from home and abroad visit the providing such a unique NWM as part of their

Commission for Air Quality Management reviews progress of Biomass Co-firing /Tendering in TPPs

for Air Quality Management in NCR & Adjoining Areas (CAQM) convened a meeting with in-charges/ representatives of 11 Coal-based TPPs located within 300 km radius of Delhi to review compliance of the Commission's Statutory Direction No. 42 issued last year and take stock of the progress of Biomass Co-firing / Tendering in Thermal Power Plants (TPPs). A summary of Guru Hargobind Thermal made towards co-firing, biomass usage and tender Plant, Lehra Mohabbat) status in the TPPs, National Mission on Use of Biomass in Thermal Power Plants were presented before the Commission. During the review, the Commission noted that the progress towards co-firing and tendering by the TPPs is not up to the desired levels. Further, the plants incharges/ representatives of the identified 11 TPPs were advised by the Commission to strictly comply with the Statutory Directions and achieve the targeted quantity of biomass to be co-fired, failing which they shall be liable for suitable penal actions. The 11 Thermal

02 TPPs of National Thermal Power Corporation (including

Power Plants are:

Chennai, March 23 National Capital Dadri been initiated only by 2 enhance Biomass Co-The Commission Thermal Power Plant, NTPCTPPs. Dadri; and Indira Gandhi Super Thermal Power Project, Jhajjar) 03 TPPs of Haryana Government [including Rajiv Gandhi TPS, Hissar Yamuna Nagar TPS (DCRTPP); and Panipat Thermal Power Station

> 02 TPPs of Punjab Government (including Guru Gobind Singh Super Thermal Plant, Ropar; and

01 TPP of U.P Government (Harduaganj TPS) and

03 Private TPPs Gandhi TPS, Jhajjar; Talwandi Sabo Power Limited, Mansa; and Nabha Power Limited (NPL), Rajpura)

Out of the 11 TPPs, 4 plants including Panipat Thermal Power Station; Talwandi Sabo Power Limited, Mansa; Guru Gobind Singh Super Thermal Power Plant, Ropar and Guru Hargobind Thermal Power Plant, Lehra Mohabbat have still not started the cofiring of biomass as mandated. Short term tenders have been processed by 5 TPPs and long-term tendering has

More than 95% MSMEs benefitted u

As on 15.03.2022, total biomass used in co-firing is 20,843 MT, the total tender awarded is 4.38 LMT and tendering is in process for 38.34 LMT of biomass by 11 NCR TPPs.

Progress reviewed in the Commission with incharges/ representatives of 11 Coal-based TPPs located within 300 km radius of Delhi. Though some progress has been the CAQM finds the progress not up to the desired levels. Out of 11 TPPs, co-firing has begun only in 07; 04 TPPs are yet to start co-firing of (including Mahatma biomass. Long term tendering process has been initiated only by NTPC, Others are yet to start the same. As on 15.03.2022. total biomass used in cofiring is 20,843 MT, total tender awarded is 4.38 LMT and tendering is in process for 38.34 LMT of biomass by 11 NCR TPPs. Plants in-charges of the identified 11 TPPs advised to strictly comply with the Statutory Directions regarding co-firing failing which they shall be liable for suitable penal actions

> The National Mission on Use of Biomass in Thermal Power Plants have taken various steps to

firing in TPPs of NCR namely:

Issuance of Long-Term

procurement of Biomass. Model SOP for all

Model contract for

GENCOs. Preparation of pellet manufacturer vendor

Farmers' Awareness Programs and Online Capacity Building

On-site programs for farmers

Programs

Development or website as an interactive common platform for all the stakeholders.

Procurement of Biomass pellets through GeM portal.

Ex-situ utilization of paddy straw, being an important strategy to control stubble burning, the Commission in September, 2021 had directed all coal-based TPPs within the 300 Km radius of Delhi to initiate immediate steps to co-fire biomass-based Pellets, Torrefied Pellets/Briquettes (including paddy straw) up to 5% - 10% of the coal requirement in the power plants. The progress of cofiring will be reviewed on a regular basis.

NEW TECHNOLOGY IN AGRICULTURAL RESEARCH

Chennai, March 23 The Government promotes use of new technology in Agricultural Research. The Research by ICAR focuses genetic en hancement crops/livestock/fish for high yield, quality and climate resilience, conservation of resources and, development of intelligent IT enabled platform for technology transfer among farmers and stakeholders. ICAR during 2021-22 developed and released 309 varieties/ hybrids of field crops including 35 varieties with special traits and 94 varieties of Horticultural crops for cultivation by ICAR.

Government, during 2020-21 and 2021-22, has allocated funds to the tune of Rs 1756.3 and Rs. 2422.7 crores to the States for introducing new technologies including drones, artificial intelligence, block chain, remote sensing and GIS etc in agriculture. Further, the Government also allocated Rs. 7302.50 and Rs. 7908.18 crores in 2020-21 and 2021-22 respectively to ICAR for undertaking Research and Development in Agriculture for developing new technologies, their demonstration at farmer's field and capacity building of farmers for adoption of new technology.

The Government has accorded due focus on ensuring improved service delivery and facilitating market access to farmers. The Government also accords adequate emphasis

improve their bargaining power. Development of infrastructure have also been given due attention to ensure better connectivity

of farmers to national and

international market. High-yielding, costsaving, disease/pest resistant and climateresilient varieties and technologies in crops, horticulture, animal and fisheries science developed besides precision farm equipment for production and post production agriculture developed by ICAR have played important role in increasing production and productivity, reducing cost of production and enhancing income of the farmers. Adoption of Farming Systems Models developed by ICAR have also enabled farmers to enhance their income and strengthen their economic condition. Besides, State specific strategies for increasing farmers

towards reducing income, provided to States country to address this. A transaction costs, by ICAR, are also helping promotion of FPOs to farmers to increase their incomes.

> National Agricultural Research System comprising of a total of 102 Research Institutions, 63 State Agricultural Universities, 3 Central Agricultural Universities and 4 Universities having agriculture faculty besides 82 All India Coordinated Research Projects/Network Projects, each having a large number of coordinating centres across the nation, is amongst the largest and strongest research systems of the World. As adequate number of research centres are existing in the country, no new research centres was established during the last three years by the Government.

> Due emphasis is given by ICAR to shift research from a commodity-based to farming systems based approach. ICAR has created multidisciplinary research complexes in different regions of the

dedicated Institute "ICAR-Indian Institute of Farming Systems Research (IIFSR), Modipuram" is working on characterizing, creating, studying and refining the farming system models in all the agro-climatic regions. Another institute, ICAR -Mahatma Gandhi Integrated Farming Research Institute has been established to facilitate and promote coordination and dissemination of the technology for integrated farming through network/consortia approach. Sixty-three Region Specific Integrated Farming System models developed by ICAR are demonstrated through the network of research Institutes and KrishiVigyanKendras all over the country.

This information was given by the Union Minister of Agriculture and Farmers Welfare Shri Narendra Singh Tomar in a written reply in Lok Sabha

Chennai, March 23 2022: As informed by the National Credit Guarantee Trustee Company Limited, the agency which operates the Emergency Credit Line Guarantee Scheme (ECLGS), as on 11.3.2022, a total of 117.87 lakh businesses have been supported with 100% guaranteed collateral free loans under ECLGS of which about 95.21% were MSMEs. This was stated by Union

The Minister stated that the ECLGS was launched in

in Rajya Sabha today.

Abhiyaan to support eligible Micro, Small and Medium Enterprises (MSMEs) and other eligible business enterprises in meeting their operational liabilities and restarting their businesses in the context of the disruption caused by the COVID-19 pandemic. It covered all the sectors of the economy. 100% guarantee is provided to Member Lending Institutions Minister of State for Finance (MLIs) in respect of the credit Dr Bhagwat Kisanrao Karad facility extended by them in a written reply to a question under the scheme to eligible borrowers, the Minister

The Minister also stated May 2020 as part of the that pursuant to an

Finance Minister in her speech on the Union Budget 2022-23 that ECLGS will be extended till March 2023. Government has extended the scheme by one year, till 31.3.2023.

Giving more details, the Minister stated that the structure of scheme allows easy access to credit as the lenders offer pre- approved loans based on borrower's existing credit outstanding and there is no fresh appraisal undertaken by lenders since additional credit is sanctioned over and above the credit and special mention account – facilities already assessed. Further, the interest rate is

also capped with a view to lower the cost of credit and loans are sanctioned without any processing charges, prepayment charges and guarantee fee.

On a question on RBI's views on the MSME sector, the Minister stated that RBI has observed in its Financial Stability Report, December 2021 that MSMEs are reflecting signs of stress. In this connection, RBI has informed that the MSME portfolios of Commercial banks indicate accumulation in the non-performing asset 2 categories in September 2021, relative to March 2021.

Muthoot Finance launches Snehasammanam initiative in Chennai offering financial assistance to distinguished artists

Chennai, March 23 2022: Muthoot Finance, India's largest gold loan NBFC Company launched the Muthoot Snehasammanam initiative in Chennai providing financial assistance in the form of a monthly pension scheme to selected distinguished artists, writers, their widows and other dependents who may be facing indigent circumstances for sustaining their lives. This is a part of their ongoing CSR initiatives on the account of Remembrance Day of Shri. M. G. George reward them for their Muthoot. An event was held at Hotel Gokulam Park in Ashok Nagar, Chennai. It was inaugurated by Chief Guest - Mr. A. M. V. Prabhakar Raja, MLA, Virugambakkam and further presided over by Mr. Sareesh R - Zonal Manager, Tamil Nadu North Zone, Muthoot Finance and the artists were provided with the first disbursement amount.

Muthoot Snehasammanam is a CSR initiative by Muthoot Finance that was launched in 2015 to uplift and provide much needed support to senior artists and performers who are unable to continue performing in their respective fields because of various factors. As often

The Cabinet

Modi, has given approval

Investment Policy (NIP)-

2012 for the three units of

Hindustan Urvarak &

Rasayan Limited (HURL)

viz. Gorakhpur, Sindri and

15th June, 2016 is a Joint

Venture Company by Coal

India Limited (CIL), NTPC

Limited (NTPC) and Indian

Oil Corporation (IOCL).

HURL, incorporated on

Committee on Economic setting up new gas based

Affairs chaired by Prime Urea Plants with the

Minister Shri Narendra installed capacity of 12.7

for the proposal of the Annum each (ILMTPA).



artists struggle financially or face many battles because of factors like age and illness, their aim is to provide the financial support they seek and contribution to the field.

During the period from 2015 to 2021, Muthoot Finance has allocated and disbursed a cumulative spend of Rs. 70, 31,000 /towards the scheme. Several artists from various fields have been benefitted as part of the initiative over the span of six years. In the upcoming years, the company plans to revise the annual outlays higher considering the social impact of the noble cause and enlist more beneficiaries under the Mr. A. M. V. Prabhakar

Speaking about the CSR initiative, Mr. Sareesh R - Zonal Manager, Tamil Nadu, North Zone, Muthoot Finance, said- "Art contributes to the culture of our nation in a major

Lakh Metric Ton Per

Department of Fertilizers The cost of three HURL farmers but will also give a

for extension of Urea projects is Rs. 25,120 boost to the economy in the

applicability of New crore. GAIL is supplying region including

Natural Gas to these three

based HURL Plants are a

part of the initiative taken

by the Government to

revive the closed urea units

of SCIL/HFCL in order to

achieve self-sufficiency in

urea sector. The

commissioning of the three

units will add 38.1 LMTPA

The state-of-the-art

units of HURL.

way. Often the contribution made by artists is undervalued which adds up to the financial struggle that they end up facing in their journey, besides other barriers. At Muthoot Finance, we aim to uplift the artists, while also shedding light on the importance of art in our lives. This is in continuation to our ongoing CSR initiatives on the account of Remembrance Day of Shri. M. G. George Muthoot. A visionary in the industry, he always recognized the

Speaking on initiative, MLA, Raja, Virugambakkam, the Chief Guest at the event said, "The pandemic has affected the lives of catastrophes, the structure Swachh Bharat Mission. of the arts and cultural

make India 'Atmanirbhar'

(self-reliant) in the urea

production. The Project

will not only improve the

availability of fertilizer to

development of

infrastructure like roads,

railways, ancillary industry

etc. besides ensuring food

have various unique

features like state of the art

blast proof control room

equipped with DCS

(Distributed Control

System), ESD (Emergency

All three HURL units

security to the nation.

importance of art and

believed in supporting the

industry leaves working artists and performers 2022: or all of their income, not to mention losing the institutions on which they depend to earn their living. I commend Muthoot Finance to provide them the much needed support Snehasammanam Muthoot Finance had

initiated a month-long thread of CSR initiatives all across India, aimed at addressing the needs of the underprivileged, on the account of the Remembrance Day of Shri. M. G. George Muthoot. Aiming to impact the lives of 10,000 people, these initiatives include housing for the underprivileged (under the flagship Muthoot Aashiyana Housing Project), support for differently-abled people (under the patronage of Snehasancharini Project), providing healthcare facilities, scholarships to deprived and deserving students, sustainable livelihood support to everyone in some way or migrant labourers and the other. During such contributing towards the

TTK Prestige launches first-of-its-kind Swish induction cook-top with innovative space saving and cord winding features

Chennai, March 23 TTK Prestige's particularly vulnerable. newly launched and first-With the continuous of-its-kind Swish lockdowns and a slow induction cooktop is a recovery rate, artists have must-have for every urban faced many challenges Indian kitchen where space wherein a vast majority of is a major constraint. them have likely lost some Packed with a host of innovative and unique features, Swish is the only induction cooktop to save space with its compact, sleek and elegant form.

Home cooks across the they require through their country will be wowed by the cooktop's advanced functionality coupled with stylish aesthetics, which makes the Swish a musthave for every Indian kitchen. Meticulously crafted keeping convenience at the forefront, the Swish is easy to store with a unique

Premium glass and soft-touch buttons add to the visual appeal of the cook-top. A slot behind the induction allows the user to hang it on any hook on the wall after use. The easy to store feature makes it a perfect choice for urban

Chennai, March 23

With so many



available in the back of the body and the induction can be neatly hung on a wall.

The innovative Swish cook-top comes ready with Indian menu options that help you prepare authentic Indian food like chapati, idli and dosa with a single touch button. It also offers tech features such as an automatic power and temperature adjustment for different food items. TTK Prestige Swish induction cook-tops come with unique dual heat sensors to kitchens as it saves space ensure that the appliance and creates a stunning heats up within the visual impact. After use, permissible safety band. the power cord can be The anti-magnetic wall

wound around the slot effectively blocks surplus magnetic energy dissipated to reduce magnetic radiation's influence on the surrounding, making it more efficient. The automatic keep warm a one-year warranty and function ensures that food is always hot. Whilst the in-built automatic voltage 345831-001). Available at regulator not only takes care of voltage variance but also ensures that the load is taken by the appliances gradually for Xclusive stores, select durability and better dealers and the brand's performance. The 2000W exclusive e-store Swish ensures faster www.prestigexclusive.in cooking, so that the home and other leading cook can reduce the time ecommerce sites.

Over the last 66 years, TTK Prestige has emerged into the go-to innovative kitchen appliances brand for home-cooks across the country. In fact, it is estimated that there exists a TTK Prestige product in nearly every Indian kitchen. The brand operates on the pillars of trust, safety and health, which forms the basis of every TTK Prestige product. Right from inception, the brand has addressed the pain points of home-cooks across the country. With the launch of the Swish induction cooktop, TTK Prestige is driving innovation to ease the busy lives of Indian home-cooks.

The Swish comes with the Design is Registered (Design registration No. an introductory price of INR 5245, the Swish induction cook-top can be purchased at Prestige

Cholesterol and Heart Attacks the Myths and the Truth

Article authored by -

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Systems. There is no offsite young people getting heart attacks and some waste water disposal in these plants. The systems are operated by the highly motivated, dedicated, well trained Operators. HURL-Gorakhpur unit has India's first Air Operated Bulled Proof Rubber Dam of 65 mtrs length and 2 mtrs These three facilities

integrate the world's best technologies aiming to meet the demand for urea in Seven States of India, namely Uttar Pradesh, Bihar, Jharkhand, Chhattisgarh, Madhya Pradesh, West Bengal and

environment Monitoring

succumbing(the most recent one being cricketer, Shane Warne), it is imperative for us to have a alarming trend. general impression is that

heart attacks are simply due to cholesterol block (plaque) in the blood vessels (coronary arteries) supplying blood to the heart muscle, leading to damage to the muscle. Of course, the damage to the heart muscle is due to loss of blood supply, but why the plaque causes sudden block is a little more complex than it appears. Because, some degree of cholesterol plaques in our arteries will be there in all of us as we grow older. It can be considered as a part of aging.Infact, the precursor of the plaque, what is medically called the present in our coronaries even when we are in our mother's womb. Then why do few people get heart attacks, and few do not, why do some people get it at an early age and some at

The last few decades have seen the vilification of cholesterol (a fat like substance found in your blood) as being the main culprit for heart attacks and the glorification of statins (cholesterol lowering drugs) as the panacea for all the evils of cholesterol. Then there was a backlash and sensationalist propaganda in social

an extremely late stage in

life, why do some succumb

to the attack, and some

survive? There-in lies the

media and the popular -one cup curd has 30 mgs, press that cholesterol is one teaspoon of butter

why we are seeing this somewhere in between. The Yes, cholesterol is needed by our body. It is a responsible for the elasticity and integrity of cell membranes, for signal transmission through nerves, and for production certain hormonesetc.But here is the catch. Your recommended daily need is only 300mg of cholesterol. Anything more than that is poison. Yes, only about 20% of the cholesterol comes from our diet and more than 80% of cholesterol is produced by our liver. Yes, dietary cholesterol comes only from animal products. Fruits, vegetables, grains and all other plant foods do not have any cholesterol at all.Butyour liver converts saturated fat and trans fats from vegetable source to cholesterol. It also converts some of the excess of carbohydrates, fats and proteins that you consumeinto cholesterol. So, even if you are a vegetarian/vegan, you can have high cholesterol levels if you consume excess of any category of food. Another very important factor is your genes which determines how much cholesterol your liver produces. The

importance of your genetic profile cannot be

good for us and is a vital has10 mgs, one egg has element of our nutritional 200mgms, 100 gm of needs and that the general mutton has 110 mgs, one population was being cup whole milk has taken for a ride by the 35mgms, 100gms of pharma companies. The animal liver has 600 mgms deeper understanding as to a c t u a l t r u t h lies of cholesterol. So, you can roughly calculate the amount of cholesterol that you consume directly every day. Add to this the 80% of cholesterol manufactured by the liver from vegetable oils and excess carbs, fats, and proteins thatyou consume. And thisis not possible to

> measure. Now, coming to heart attacks, high cholesterol is not the only cause of this problem. Therefore, you may get an attack even if your cholesterol levels are normal. There are many other factors that come into play leading to a heart attack. But the plaque that ruptures in your coronary artery causing the heart attack, is made of cholesterol. Hence the importance of cholesterol as a culprit for heart attacks

The real reasonfor heart attacks lies in the Endothelium, the inner lining of the blood vessels. All the risk factors for coronary artery disease (CAD), like diabetes, hypertension, smoking, stress, hyperlipidemia (and there is a big list), cause damage to this inner lining

INFLAMMATION(somet hing akin to the graze that you get on your skin when you fall down). Stress is a major factor in today's world and often overlooked.Once the endothelium inflamed, it Approximate lays the foundation for cholesterol content of rupture of the cholesterol some common food items- plaque and consequent



clotting of blood in the coronary artery, leading to a heart attack. The earlier in life a person develops cardiac risk factors, the earlier will he gets a heart attack. The greater number of risk factors he has, the greater chances of heart attack. The bigger the blood vessel blocked, the higher risk that he may lose his life due to the heart attack. The more stress he has, the greater chance he will get a heart attack. Extreme exercise is another cause for endothelial inflammation leading to heart attack. The recent Covid 19 pandemic is a classic example of diseases that can cause endothelial inflammation leading to heart attack.

What can we do to lower the inflammation? First and foremost, control your risk factors. If you are a diabetic, meticulously keep your sugar under control. If you are hypertensive, keep your BP under control etc.Second, practice a healthy lifestyle, regular walking/exercise, healthy diet, avoid smoking, reduce stress etc.Practicing yoga, meditation and other forms of relaxation methods help reduce inflammation in the

The age-old idiom that prevention is better than cure, is very, very relevant

HURL is reviving the indigenous urea production Shutdown System) and in the country and help to erstwhile Gorakhpur and **Cabinet approves Minimum Support** Price of Raw Jute for 2022 -23 season

Cabinet approves extension of applicability of New Investment

Policy-2012 for three units of Hindustan Urvarak and Rasayan Limited

Sindri Units of FCIL and realize the vision of the

Barauni Unit of GFCL by Hon'ble Prime Minister to

Chennai, March 23 Prices. 2022: The Cabinet Committee on Economic Affairs, chaired by the Prime Minister, Shri Narendra Modi, today approved the Minimum Support Price (MSP) for Raw Jute for 2022-23 season. The approval is based on recommendations of the Commission for Agricultural Costs and

The MSP of Raw Jute (TDN3 equivalent to TD5 grade) has been fixed at Rs.4750/- per quintal for 2022-23 season with an increase of Rs.250/- over the previous year. This would ensure a return of 60.53 percent over all India 50 percent as margin of weighted average cost of production. The announced MSP of raw jute for 2022-

principle of fixing the MSP at a level of at least 1.5 times all India weighted average cost of production as announced by the Government in the Budget

It assures a minimum of profit. It is one of the important and progressive steps towards ensuring

23 season is in line with the better remunerative returns to the jute growers and to incentivize quality jute Fatty Streak, may be fibre.

> The Jute Corporation of India (JCI) will continue as Central Government Nodal Agency to undertake Price Support Operations and the losses incurred, if any, in such operations, will be fully reimbursed by the

PM to inaugurate Biplobi Bharat Gallery at Victoria Memorial Hall, Kolkata on Shaheed Diwas

Chennai, March 23 2022: On the occasion of Shaheed Diwas, Prime Minister Shri Narendra Modi will inaugurate Biplobi Bharat Gallery at Victoria Memorial Hall, Kolkata on 23rd March at 6 PM via video conferencing. Prime Minister will also address the gathering

The Gallery displays the contribution of the Revolutionaries in the freedom struggle and their armed resistance to British colonial rule. This aspect has often not been given its due place in the mainstream movement. The purpose of this new gallery is to provide a holistic view of the events that led up to 1947 and highlight the important role played by the Revolutionaries.

Biplobi Bharat Gallery depicts the political and intellectual backdrop that

narrative of the freedom triggered the Revolutionary movement. It showcases the birth of the revolutionary movement, formation of significant associations by revolutionary leaders, spread of the movement, formation of Indian National Army, contribution of Naval Mutiny, among others.