



FEDERATION OF GUJARAT INDUSTRIES

ISO 9001:2015 Certified



Federation Bulletin | January - March 2022 | Issue 4 | Volume 50

23 Electrical Equipment Industry:
Stable outlook and signs of revival

29 Glance at the Pharmaceuticals
Industry in India

31 Sustainability And Zero Liquid
Discharge For Chemical Industries



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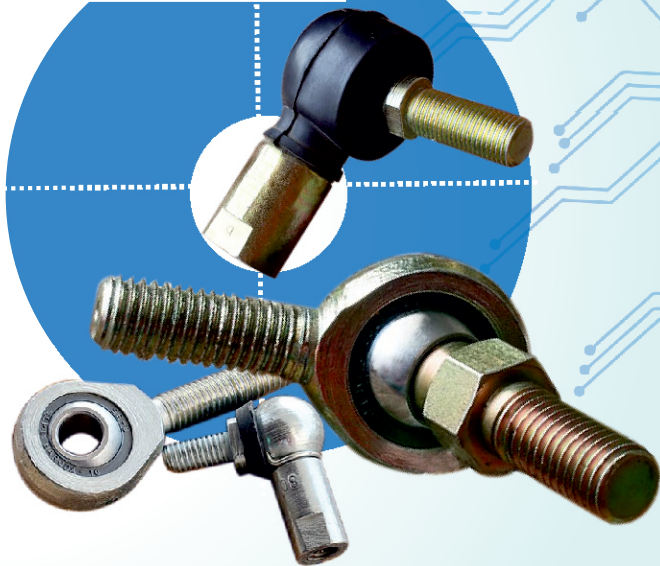
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+91 99044 06505



info@seemail.in



Editorial Board

- Ms. Arti Basu
- Ms. Pooja Ranka
- Mr. Avant Amin
- Mr. Premal Dave

FEDERATION BULLETIN

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January-March 2022

FEDERATION OF GUJARAT INDUSTRIES

FGI Business Centre, Gotri - Sevasi Road,
Khanpur, Nr. Sevasi, Vadodara - 391101, Gujarat, INDIA.

Tel : +91 265 2372901/2

Email : info@fgi.co.in Website : www.fgiindia.com

The matter printed in the FGI Bulletin does not necessarily reflect the views of FGI.

We would like your feedback/comments to enable us to improve our offering. Write to us at: info@fgi.co.in

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A word from the President



Abhishek Gangwal
President, FGI

Dear Members,

At the outset, I begin with wishing all our members a very profitable new financial year 2022-23. During the last quarter we were successful in beating the third wave of covid and we are now certainly looking forward to put covid and its destructions behind us and look forward to prosper multi-fold during the new financial year.

During this quarter we organized several webinars, interactive meetings and conferences for our members and exporters. Webinars were organized on topics such as RoDTEP, Labour Codes, Security Trends and Communications, Online Compliances for Exporters and Importers, Book Review Sessions, HR Conferences and Intellectual Property Rights.

The Hon'ble Finance Minister delivered the Union Budget 2022-23 amidst the third wave. The two-lakh crore credit for the MSME sector announcement is an appreciable step by the Government. The worst-hit MSME sector stands to benefit most from the Budget announcements. The budget provided major thrust on Infrastructure, Water & Urban Planning and finally offered some clarity on digital currency.

The economic and political turmoil in Pakistan and Sri Lanka and its impact on our country was discussed at length during a special discussion wherein expert speakers spoke on what precautions our businesses and exporters need to take in order to safeguard their present business dealings with these countries. Notable author Mr. Rajesh Shrivastava during his interactive session on 'The New Rules of Business: Get Ahead or Get Left Behind' provided business leaders and management the right guidance on how to steer their businesses in the right direction and achieve fruitful results.

A comprehensive HR conference was held with senior HR experts who deliberated on how HR should help in building exponential organizations. An MOU was signed with CHARUSAT to support and promote industry-academia partnership which reflects commitment towards synthesizing the educational and industrial sectors.

Moreover, we sent representations to Dr. Mansukh Mandaviya, Hon'ble Cabinet Minister, Ministry of Health and Family Welfare, Shri Piyush Goyal, Hon'ble Minister of Commerce & Industry, Ministry of Commerce and Industry and Smt. Nirmala Sitharaman, Hon'ble Union Finance Minister regarding Various issues faced by Industry.

We have resumed our physical seminars and events at FGI premises and several industry beneficial programs are in the pipeline. I look forward to our members active participation in our events and deliberations in the next financial year.

Thank you all,



Abhishek Gangwal
President

MANAGING COMMITTEE OF FGI FOR THE YEAR 2021-2022

PRESIDENT

Abhishek Gangwal
HPS Gases Ltd.

SR. VICE PRESIDENT

Tarak Patel
Tarak Chemicals Ltd

VICE PRESIDENT

Arti Basu
Parth Projects & Construction Pvt. Ltd.

HON. TREASURER

Rustom Patell
Baroda Polyform Pvt. Ltd.

PATRON MEMBER

Chirayu Amin
Alembic Pharmaceuticals Ltd.

PAST PRESIDENTS

Atul Patel
Enviro Infrastructure Co. Ltd.
Ram Devidayal

Rakesh Agrawal
Shiva Pharmachem Ltd.

Amit Goradia
Kunkel Wagner (India) Pvt. Ltd.
Shivinder Singh Chawla
Reinhardt Teknik

Ashok Patel
Simalin Chemical Industries Pvt. Ltd.

Geeta Goradia
Jewel Consumer Care Pvt. Ltd.

PAST PRESIDENTS – INVITEES

Dr. Viren Patel **Jal R. Patel**

Visubhai Patel
Simalin Chemical Industries Pvt. Ltd.

Yogendra Gangwal
Sky Acetylene Co. Pvt. Ltd.

ELECTED MEMBERS

Avant Amin
Dot Graphics LLP

Bharat Shah
Gautam Infin Limited

Hemal Mehta
P-MET High Tech Co. Pvt. Ltd.

Kush Patel
Banco Aluminium Limited

Mohan Nair
Sabari Chemicals Pvt. Ltd.

Neetu Jain
Panache Green Tech Solution Pvt. Ltd.

Nilesh Shukla
Pioneer Elecmech (I) Pvt. Ltd.

Paresh Saraiya
Silox India Pvt. Ltd.
(Formerly Transpek-Silox Industry Pvt. Ltd.)

Pooja Ranka
Zydex Industries Pvt. Ltd.

Bharat Desai
Bharat Parenterals Ltd.
Narendra Varma
Gulbrandsen Chemicals Pvt. Ltd.

Dilip Shah
Prakash Chemicals International Pvt. Ltd.

Manohar Chawla
Ashwin Vanaspati Industries Pvt. Ltd.

Pranav Doshi
Urja Power Pte Ltd.

Sameer Khara
SEE Linkages Pvt. Ltd.

Vipul Ray
Elmex Electric Pvt. Ltd.

CO-OPTED MEMBERS

Arvind Nopany
Rishi FIBC Solutions Pvt. Ltd.

Dr. Firoz Holia
National Research & Management Centre (NRMC)

Rakesh Bansal
Shakun Polymers Pvt. Ltd.

Ketan Parikh
S. D. Intermediates

SPECIAL INVITEES

S K Rajjada
Coach Mentor Counsellor

CA Manish Baxi
Purity Flexpack Ltd.

CA Sanjeev Shah
Shah Sanjeev & Associates

Janak Sheth
Century Pharmaceuticals Ltd.

SECRETARIAT

Premal Dave
Secretary General

FEDERATION ACTIVITIES

JANUARY 2022

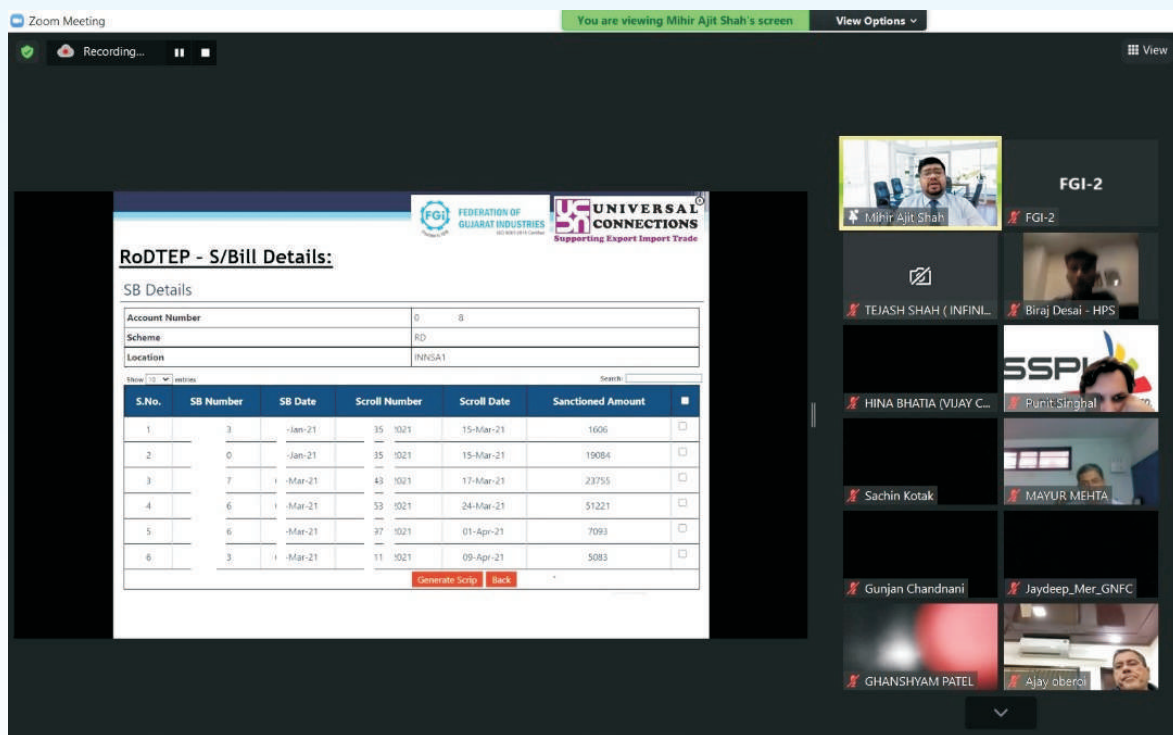
5th January 2022

Webinar on ‘Understanding RoDTEP and Its Compliances’

The webinar had covered the background, advisory and concept of RoDTEP, latest notification and rates, creation and requirements of ICEGATE login and RoDTEP ledger creation.

The webinar was conducted by Mr. Mihir Shah, Expert Faculty on Exports, Universal Connections.

The webinar was attended by participants from across the nation viz. Maharashtra, Haryana, Rajasthan, Tamil Nadu, Aandhra Pradesh, Madhya Pradesh, Uttarakhand and Gujarat and the participants appreciated the webinar contents and presentation.



The screenshot shows a Zoom meeting interface. The main content is a slide titled "RoDTEP - S/Bill Details:" with the following table:

S.No.	SB Number	SB Date	Scroll Number	Scroll Date	Sanctioned Amount
1	3	-Jan-21	35 1021	15-Mar-21	1606
2	0	-Jan-21	35 1021	15-Mar-21	19084
3	7	-Mar-21	43 1021	17-Mar-21	23755
4	6	-Mar-21	53 1021	24-Mar-21	51221
5	8	-Mar-21	57 1021	01-Apr-21	7093
6	3	-Mar-21	11 1021	09-Apr-21	5083

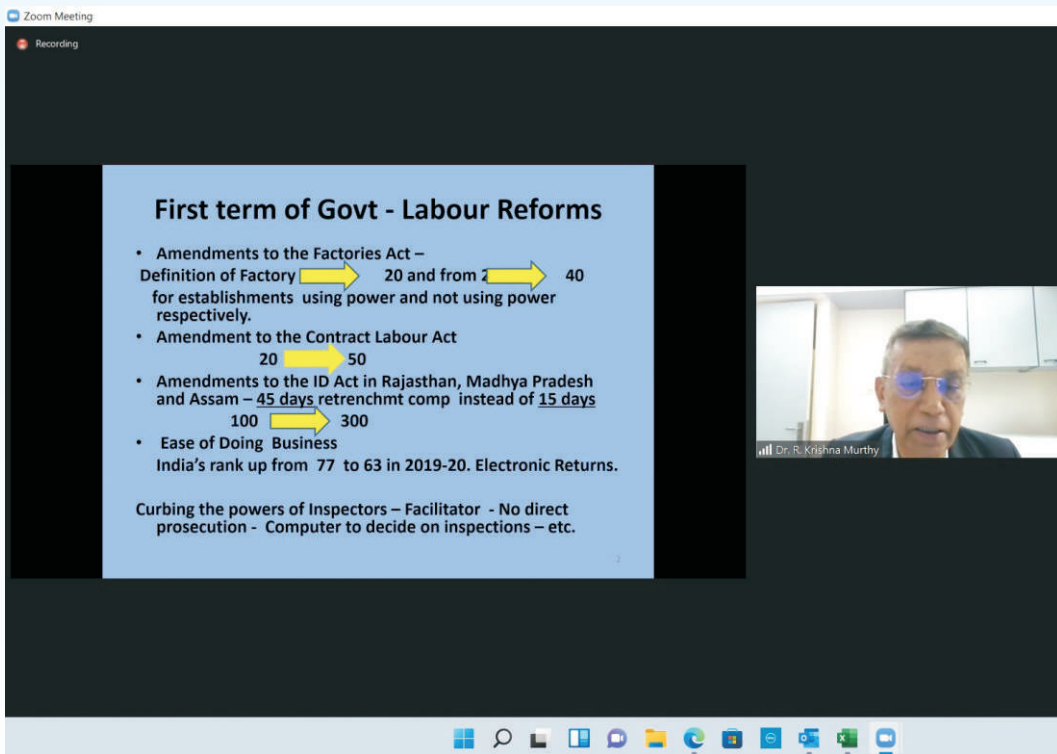
Below the table are buttons for "Generate Scrp" and "back". The slide also features logos for "FEDERATION OF GUJARAT INDUSTRIES" and "UNIVERSAL CONNECTIONS". The Zoom interface shows a grid of participants including Mihir Ajiit Shah, TEJASH SHAH, Biraj Desai, HINA BHATIA, Sachin Kotak, MAYUR MEHTA, Gunjan Chandnani, Jaydeep_Mer_GNFC, GHANSHYAM PATEL, and Ajay oberoi.

11th January 2022

Webinar on ‘Decodifying The Labour Codes’

The webinar covered labour codes and its impact on the employer and ease of doing his business. The need for labour reform for Industry and the consolidation of 29 different laws into 4 codes that are likely to be implemented by the next fiscal year as at least 13 states have pre-published draft rules on those laws. The Centre had already finalized the rules under those codes and now states required to frame regulations on their part as labour is a concurrent subject.

The guest speaker during the webinar was Dr. R. Krishna Murthy, Director, Industrial Relations Institute of India & CEO of S R Mohan Das and Associates.



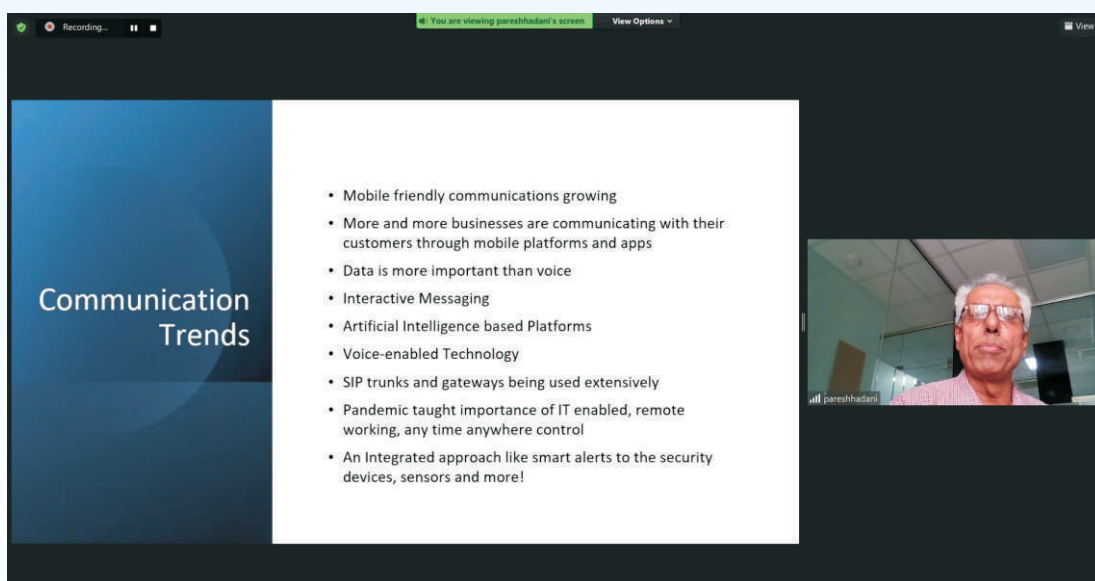
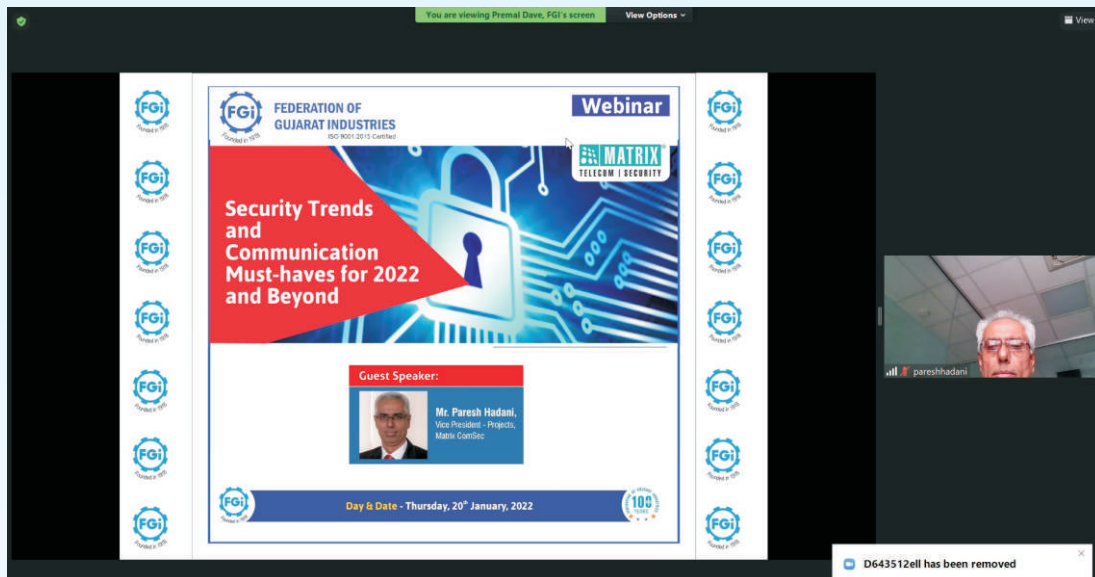
20th January 2022

Webinar on 'Security Trends and Communication Must-Haves for 2022 and Beyond'

The webinar covered security solutions that has a wide array of products and solutions to cater to the modern needs of organizations including the modern day security challenges particularly with the pandemic adversely affecting all sectors.

Also, the session included a gist of intelligent integration of Security and Telecommunication solutions with a brief insight into Industrial Automation and how the systems work in synchronizations.

Mr. Paresh Hadani, Vice President – Projects, Matrix ComSec was the guest speaker for the webinar.

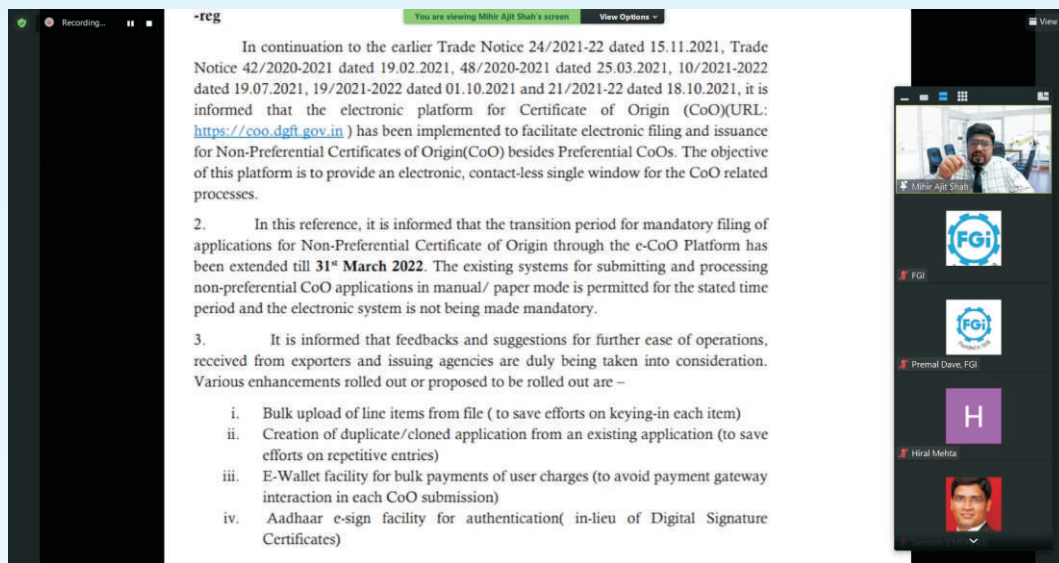


28th January 2022

Webinar on ‘Online Compliance for Exporters / Importers’

The webinar had covered overall compliances for Exporters & Importers, Compliance with DGFT, Online COO, Customs & ICEGATE requirements & queries related to other departments for Exporters & Importers.

The speaker for the session was Mr. Mihir Shah, Expert Faculty on Exports, Universal Connections.



- **Service to Members / Representations / Circulars:**

1. Date: 01/01/2022 - New Year Greetings from FGI!, sent to all members, FGI.
2. Date: 01/01/2022 - Important & Urgent: FGI Managing Committee Election 2022-24, sent to all concerned members, FGI.
3. Date: 10/01/2022 - Webinar on Security Trends and Communication Must-Haves for 2022 and Beyond - 20-01-2022, sent to all members, FGI.
4. Date: 12/01/2022 - Circular regarding extension of timelines for filing of Income-tax returns, sent to all members, FGI.
5. Date: 12/01/2022 - Reminder - Mandatory Electronic filing of Non-Preferential COO through DGFT's Common Digital Platform from 01.02.2022, sent to all members and exporters, FGI.
6. Date: 13/01/2022 - Webinar on Online Compliance For Exporters / Importers - 28-01-2022, sent to all members, FGI.
7. Date: 13/01/2022 - Request for submission of Member Details Updation Form, sent to all members, FGI.
8. Date: 21/01/2022 - FGI Bulletin: October - December 2021, sent to all members, FGI.
9. Date: 24/01/2022 - IMPORTANT UPDATE : Mandatory Electronic filing of Non-Preferential COO through DGFT's Common Digital Platform from 01.04.2022 sent to all members and exporters, FGI.
10. Date: 25/01/2022 - Invitation - Union Budget 2022-23 Analysis - 02.02.2022 Online, sent to all members, FGI.

FEBRUARY 2022

1st February 2022

Live Viewing of Union Budget 2022-23 with Managing Committee Members, FGI

A live viewing of Budget 2022-23 presented by Smt. Nirmala Sitharaman, Hon'ble Union Minister of Finance was held with Managing Committee Members and limited Members of Media.

Mr. Abhishek Gangwal, President, Mr. Tarak Patel, Sr. Vice President, Ms. Arti Basu, Vice President, Mr. Premal Dave, Secretary General and other managing committee members – Mr. Dilip Shah, Mr. Mohan Nair, CA Sanjeev Shah attended the live viewing.



Feedback from FGI on Union Budget 2022-23:

Mr. Abhishek Gangwal -People generally expect major reduction in taxes, duties every year. It is not possible. No major changes means the going is good. 2 Lac crore credit for MSMEs is welcomed. Major thrust on Infrastructure, Water & Urban Planning. Some clarity on Digital Currency is good.

Mr. Tarak Patel - Budget is for next 25 years, planning & allocation for building future India.

Ms. Arti Basu - Welcome step for MSME boost with 64% of the defence budget for Make In India.

Mr. Dilip Shah - Very Welcome budget across Commerce & Social Sector. Every Section of Society has been covered.

Mr. Mohan Nair - Welcome and Balanced Budget. Infrastructure Development, Expansion of highways, 400 more VandeMataram Trains, Minimum support force for farmers, 1000 LMT Paddy procurements, financing for SMEs, 48000 crores for PM Awas Yojana, 19500 Crores for Solar Energy projects, etc are welcome step.

CA Sanjeev Shah - The budget is futuristic & inclusive. Futuristic because it covers digital Currency & admissibility of Crypto Assets. Extended benefits to MSME by way of extra Credit Guarantee. However, game changer is announcement of “UPDATED IT RETURN”. The budget will generate more investments & job opportunities.

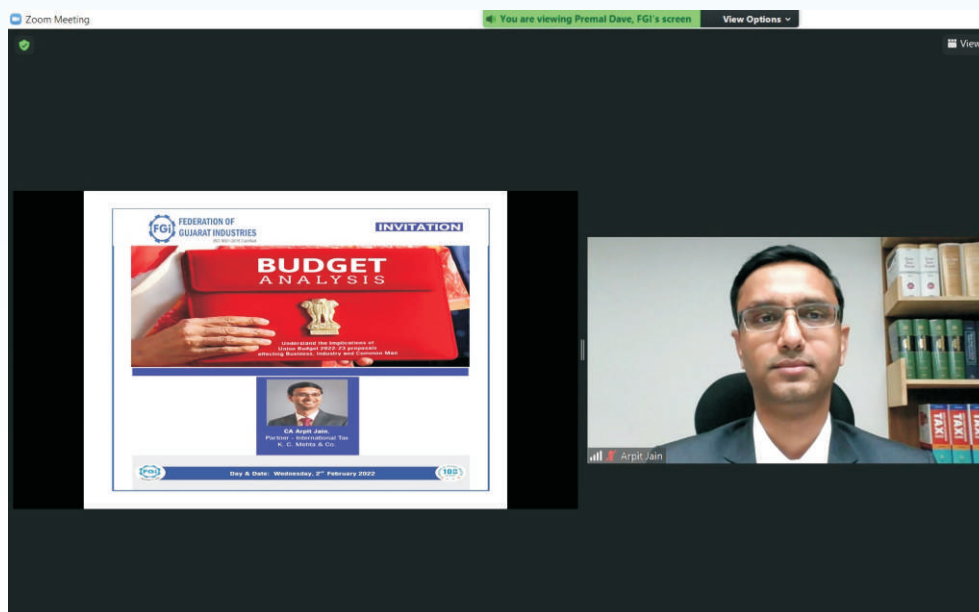
Mr. Premal Dave - A budget that has been presented with a vision of a transformative growth for economic development. The budget shall provide a roadmap for skilling, upskilling, creating a productive workforce & enhancing Industry’s competitiveness. The announcement of interlinking of Udyam, e-Shram, NCS and ASEEM portals to provide access to youth to jobs and livelihood.

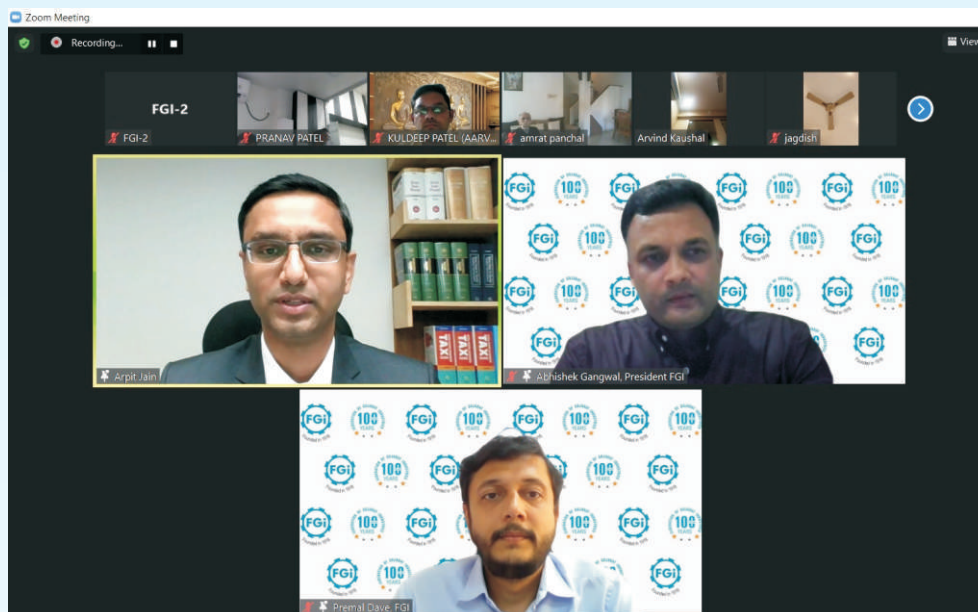
Wide coverage of the views expressed by FGI Office Bearers and Managing Committee members were publicized by leading newspapers.

2nd February 2022

Analysis of Union Budget 2022-23

Like every year, FGI had organized a session for the analysis of Union Budget 2022-23. Expert Guest Speaker CA Arpit Jain, Partner – International Tax, K. C. Mehta & Co., Chartered Accountants conducted the webinar explaining implications on business & industry sector of the important provisions contained in the Budget.





3rd February 2022

Meeting to discuss regarding the Social Compact committee of FICCI Gujarat Council

Special invitation was received by Mr. Abhishek Gangwal, President to join the Social Compact committee of FICCI Gujarat Council from Shri Sunil Parekh and Shri Deepak Mehta to represent FGI. The main purpose of the committee is to explore & take forward the Social Compact in Gujarat.

Further to that first meeting was organized to discuss the agenda for the FICCI Social Compact Committee. The meeting was attended by Mr. Abhishek Gangwal, President, FGI and other committee members of FICCI.

4th February 2022

Managing Committee Election Report – 2022-2024

Following 10 candidates stand elected uncontested to the Managing Committee 2022-24:

Sr. No.	Candidates
1.	Mr. Abhishek Gangwal Director, HPS Gases Ltd.
2.	Ms. Arti Basu Managing Director, Parth Projects & Construction Pvt. Ltd.
3.	Mr. Bharat Desai Managing Director, Bharat Parenterals Ltd.
4.	Mr. Dilip Shah Whole Time Director, Prakash Chemicals International Pvt. Ltd.
5.	Dr. Firoz Holia President, National Research & Management Centre (NRMCM)
6.	Mr. Narendra Varma Managing Director, Gulbrandsen Chemicals Pvt. Ltd.

Sr. No.	Candidates
7.	Mr. Pranav Doshi Director, Urja Power Pte Ltd.
8.	Mr. Sameer Khera Managing Director, SEE Linkages Pvt. Ltd.
9.	Mr. Tarak Patel Executive Director, Tarak Chemicals Ltd.
10.	Mr. Vipul Ray Managing Director, Elmex Electric Pvt. Ltd.

15th February 2022

Meeting with Ms. Elaine D'Souza - Trade Commissioner, Mumbai - Government of Canada at FGI

Ms. Elaine D'Souza along with her colleague from Ahmedabad Mr. Joachim Rocha had a courtesy meeting at FGI. The purpose of the visit was to resume engagement with member companies who are looking at doing business with / in Canada. They also expressed interest to hold online meetings between Canadian and Indian companies to introduce their products and services and help boost trade between the two countries.



18th February 2022

Webinar - 'Discussion on The Current Debt and Economic Situation of Sri Lanka and Pakistan and its implications for India'

The webinar was organized to discuss and to understand more on the current debt and economic situation of both these countries and its implications to India.

The speakers for the session were Mr. Ashok Patel, Past President, FGI and Chairperson, FGI Economic Development and International Affairs Committee and Prof. Amit Dholakia, Professor of Political Science and former Provost, GSFC University & Former Registrar, The M. S. University of Baroda.

Mr. Arvind Dullu, Regional Business Head for India's leading water and wastewater multinational M/s VA Tech Wabag, Sri Lanka had also shared important inputs during the webinar.

From the webinar discussions, FGI members and exporters could understand the current economic situation of the two countries and could even solve their doubts regarding doing business in and with these countries.



19th February 2022

FGI Book Readers' Forum - Review of Rajesh Srivastava's Book - 'The New Rules of Business: Get Ahead or Get Left Behind'

The fifth session under FGI Book Reader’s forum was conducted by FGI on the book ‘The New Rules of Business: Get Ahead or Get Left Behind’. This time the book reader’s forum was graced by the author of the book Mr. Rajesh Srivastava as the guest speaker along with Mr. Bhaskar Joshi, HR & Management Advisor. Mr. Srivastava conducted a very interactive and informative session with live questions and answers from the participants while reviewing his book. The insights shared by him during the session were appreciated by one and all.



23rd February 2022

CHARUSAT - FGI MoU Renewal Function

CHARUSAT – FGI MoU Renewal Function was held to support and promote industry-academia partnership which reflects commitment towards synthesizing the educational and industrial sectors.

The MoU renewal function was attended by CHARUSAT representatives - Dr. R V Upadhyay, Provost Dr. Devang Joshi, Registrar Faculty, Dr. Samir Patel, UIIC Coordinator & Professor, Dr. Ashwin Makwana, CDPC Head & Associate Professor, Dr. Dattatraya Subhedar, Associate Professor, Dr. Rajesh Sadhwani, Assistant Professor Administration, Mr. Parth Patel, UIIC Executive Officer and FGI representatives Mr. Abhishek Gangwal, President, Mr. Tarak Patel, Sr. Vice President, Mr. Rustom Patell, Hon. Treasurer, Mr. Dilip Shah, Managing Committee Member and Mr. Premal Dave, Secretary General.



Discussions were held between both representatives on how industry and academia can help each other in achieving individual and company goals. Importance of skilled manpower and training was also pondered upon.

The MoU was signed from FGI side by Mr. Abhishek Gangwal, President, Mr. Tarak Patel, Sr. Vice President and Mr. Premal Dave, Secretary General and from CHARUSAT by Dr. Devang Joshi, Registrar, Dr. R V Upadhyay, Provost and Dr. Samir Patel, UIIC Coordinator & Professor.

24th February 2022

Meeting with Dr. Rahul Singh, ITS, Dy. DGFT Vadodara, Office of the Joint Director General of Foreign Trade, Vadodara.

A meeting was held with Dr. Rahul Singh, ITS, Dy. DGFT, Vadodara to discuss the pending issues related to Vadodara DGFT, received from FGI members.

The meeting was attended by Mr. Abhishek Gangwal, President, Mr. Tarak Patel, Sr. Vice President, Mr. Bharat Desai, Managing Committee Member and Mr. Premal Dave, Secretary General, FGI.



24th February 2022

FGI representation to Dr. Mansukh Mandaviya, Hon'ble Cabinet Minister, Ministry of Health and Family Welfare regarding Various issues faced by Industry

FGI sent representation to Dr. Mansukh Mandaviya, Hon'ble Minister of Health and Family Welfare mentioning the important issues pertaining to the health sector, faced by our industrial members and our recommendations for the same. The issues included points about regulatory certification and inspections, software glitches on the Central Drugs Standard Control Organization (CDSCO) website, mechanism for payment of GST under reverse charge, free gifts and samples limit for import or export by courier and MSME sector's expectation of extension of interest subvention scheme with enhanced coverage.

24th February 2022

FGI representation to Shri Piyush Goyal, Hon'ble Minister of Commerce & Industry, Ministry of Commerce and Industry regarding Various issues faced by Industry

FGI sent representation to Shri Piyush Goyal, Hon'ble Minister of Commerce and Industry mentioning the important issues pertaining to the exports sector, faced by our industrial members and our recommendations for the same. The representation highlighted issues faced by exporters in the Remission of Duties and Taxes on Exported Products (RoDTEP) scheme, Standard Input Output Norms (SION) fixation, EPCG Scheme the Market Access Initiative (MAI) Scheme.

24th February 2022

FGI representation to Smt. Nirmala Sitharaman, Hon'ble Union Finance Minister regarding Various issues faced by Industry

FGI sent representation to Smt. Nirmala Sitharaman, Hon'ble Minister of Finance mentioning the important issues pertaining to the finance sector, faced by our industrial members and our recommendations for the same. The representation highlighted issues such as Tax treatment of Corporate Social Responsibility (CSR) Expenditure, ITC admissibility in GST in case of expenses booked towards CSR activities, Inverted Duty Structure, Expiry Goods, Form 26AS to include PAN of deductor and the Unique TDS Certificate Number and Input Tax Credit allowance for construction of an immovable property which is intended to be used for furtherance of business or commerce.

25thFebruary 2022

Invitation for CII Central Gujarat Zonal Annual Meeting 2022 & Symposium on “Vadodara – The Future : Challenges & Opportunities for our Vibrant City” held at Lukshmi Vilas Palace, Vadodara

Mr. Abhishek Gangwal, President, FGI and Mr. Sameer Khara, Managing Committee member were invited as Panelists at the Panel Discussion on “Vadodara – The Future : Challenges & Opportunities for our Vibrant City”. This discussion was organised as a part of the CII Central Gujarat Zonal Annual Meeting 2022.

The event was attended by Mr. Abhishek Gangwal, Mr. Sameer Khara and Mr. Premal Dave.



• **Service to Members / Representations / Circulars:**

1. Date: 02/02/2022 - Notification regarding extension of last date for submitting applications for scrip based FTP schemes sent to all members and exporters, FGI.
2. Date: 03/02/2022 - FGI Book Readers' Forum - Review of Rajesh Srivastava's Book - The New Rules of Business: Get Ahead or Get Left Behind - 19-02-2022,, sent to all members, FGI.
3. Date: 03/02/2022 - D. A. Circular - February 2022, sent to all members, FGI.
4. Date: 04/02/2022 - Election Result: Managing Committee 2022-24, sent to all members, FGI.
5. Date: 05/02/2022 - Direction issued to SPCBs / PCCs for assessment of phasing out single use plastic, sent to all members, FGI.

6. Date: 05/02/2022 - Public Notice issued by GPCB, sent to all members, FGI.
7. Date: 09/02/2022 - Gujarat IT / ITeS Policy - 2022-27, sent to all members, FGI.
8. Date: 09/02/2022 - Webinar - Discussion on The Current Debt and Economic Situation of Sri Lanka and Pakistan and its implications for India - 18/02/2022, sent to all members, FGI.
9. Date: 10/02/2022 - Clone Application option introduced on DGFT COO Portal, sent to all members and exporters, FGI.
10. Date: 10/02/2022 - Notification of ITC (HS), 2022- Schedule-1 (Import Policy) sent to all members, FGI.
11. Date: 16/02/2022 - Request to send pending issues with Vadodara DGFT, sent to all members and exporters, FGI.
12. Date: 18/02/2022 - DGTS Webinar on 'Authority of Advance Ruling in Customs' - 22/02/2022, sent to all members, FGI.
13. Date: 19/02/2022 - Request for suggestions - Draft National Policy for MSMEs in India, sent to all members, FGI.
14. Date: 19/02/2022 - HR Conference on 'Building Exponential Organization - New Mandate for HR' - 9-3-2022, sent to all members, FGI.
15. Date: 25/02/2022 - E-Wallet Facility introduced on DGFT COO Portal, sent to all members and exporters, FGI.
16. Date: 28/02/2022 - Webinar - Need and Awareness on IPR for MSMEs - 11.03.2022, sent to all members, FGI.
17. Date: 28/02/2022 - A Post Budget Webinar on 'Make in India for the World' - sent to all members, FGI.

MARCH 2022

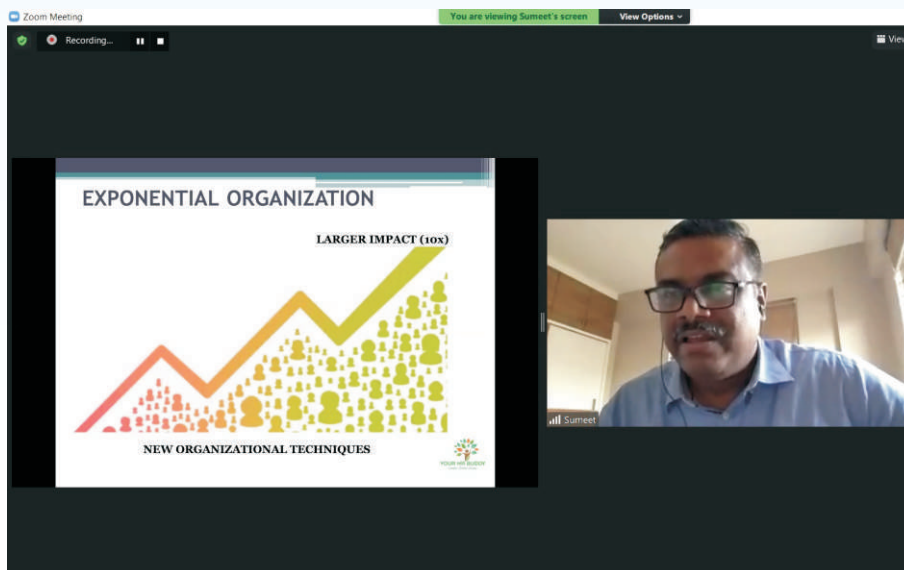
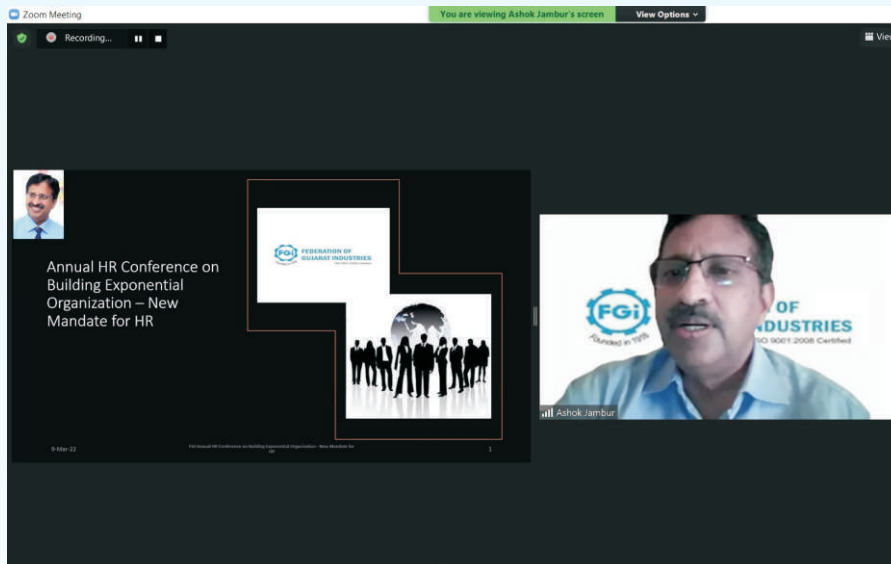
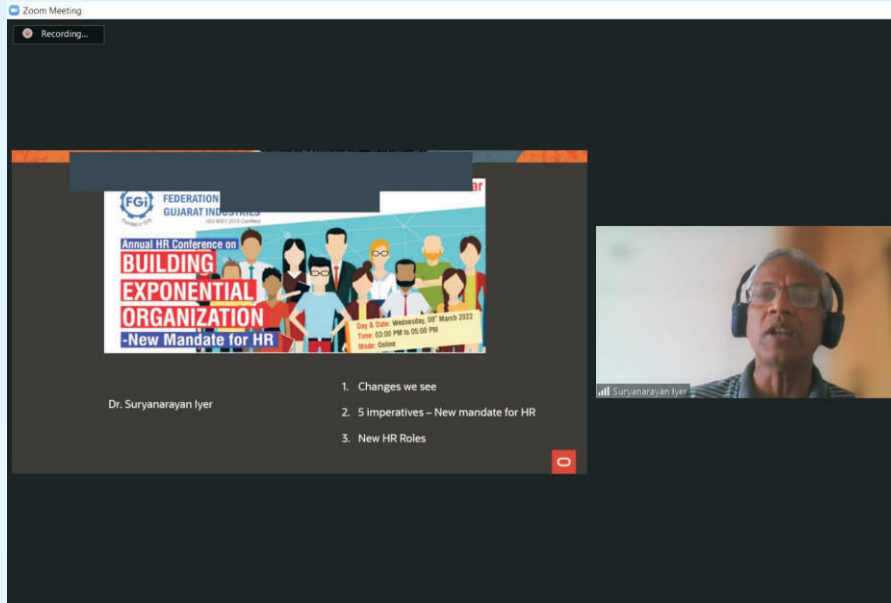
9th March 2022

HR Conference on 'Building Exponential Organization - New Mandate for HR'

The webinar was organized to discuss and to understand more on the exponential organization which is one whose imperil or output is disproportionally larger compare to its peer because of the use of new organization techniques that leverage acceleration technologies.

The speakers for the session were Dr. Suryanarayan Iyer, Senior Director - Solution Engineering, Oracle, Mr. Ashok Jambur, Member of the Advisory Board, Human Development Society and Mr. Sumeet Varghese, OD Expert.

From the webinar discussions, FGI members and exporters could understand the HR needs to act as a decision – maker, star of corporate change and architect in building exponential organizations and to sustain and prepare them for future opportunities and challenges of HR in revolutionizing policies and processes.

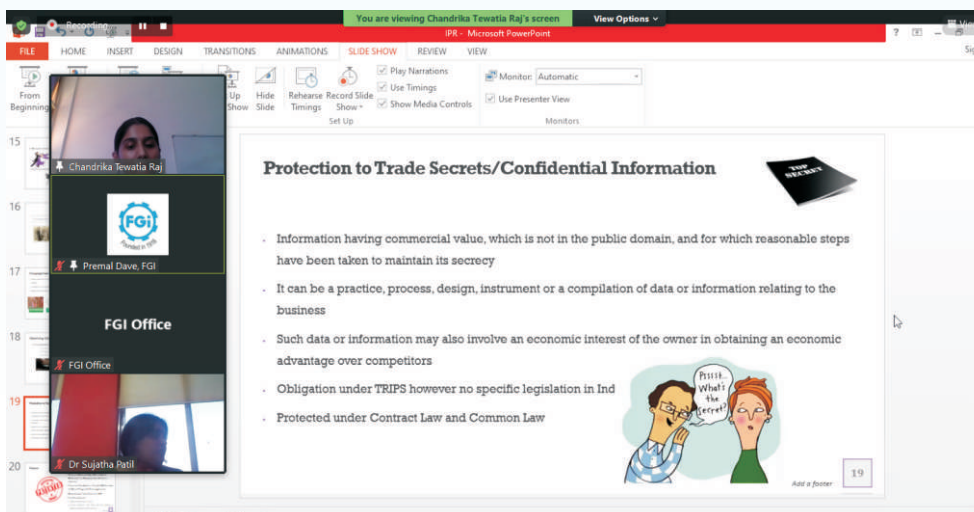
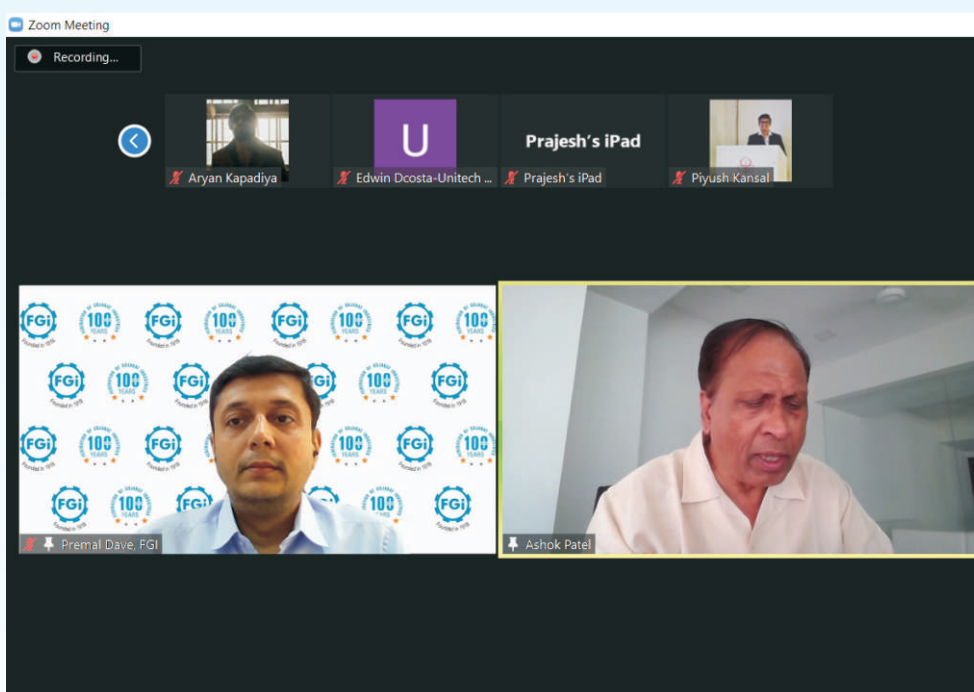


11th March 2022

Webinar on 'Need and Awareness on IPR for MSMEs'

The webinar was organized to make MSMEs aware on the need of Intellectual Property Rights (IPRs) by discussing MSMEs that foster several assets that are of paramount importance to their respective business models which includes novel inventions, an MSME's brand name, or an industrial design. MSMEs which are in the continuous pursuit of creating innovations, brand images, and trade secrets that have to be protected considering the competitiveness of dynamic business environments.

The speakers for the session were Mr. Ashok Patel, Past President, FGI and Managing Director, Simalin Chemicals Pvt. Ltd., Dr. Sujatha Patil, Associate Professor & Principal BBA LLB, School of Business and Law, Navrachana University and Ms. Chandrika Tewatia Raj, Assistant Professor, School of Business and Law, Navrachana University.





11th March 2022

FGI secretariat celebrated the 159th Birth Anniversary of Shrimant Sir Sayajirao Gaekwad III.

FGI secretariat remembered and paid respects to Shrimant Sir Sayajirao Gaekwad III, the visionary erstwhile ruler of Baroda State under whose golden regime in 1918, FGI was constituted.



- **Service to Members / Representations / Circulars:**

1. Date: 01/12/2021 - Trade Notice No. 27/2021-2022 regarding Electronic filing of RCMC / RC , sent to all members & exporters, FGI.
2. Date: 05/03/2022 - D. A. Circular - March 2022, sent to all members, FGI.
3. Date: 08/03/2022 - Notification regarding extension of last date for submission of applications under certain Scrip based schemes, sent to all members, FGI.
4. Date: 11/03/2022 - Notification regarding Special Outreach Programme for Stakeholders, sent to all members, FGI.
5. Date: 14/03/2022 - Invitation - Seminar on 'Related Party Transactions' - Friday, 12.04.2022 at FGI Vadodara, sent to all members, FGI.
6. Date: 15/03/2022 - Trade notice regarding Operationalization of new online IT Module for Interest Equalization Scheme w.e.f. 01.04.2022, sent to all members and exporters, FGI.
7. Date: 16/03/2022 - Special Outreach program organized by CGST Vadodara-I Commissionerate - 19/03/2022, sent to all members, FGI.
8. Date: 17/03/2022 - FGI wishes you a very happy Holi!, sent to all members, FGI.
9. Date: 17/03/2022 - FGI Industrial Visit to Gujarat Agro Infrastructure Mega Food Park - 14.04.2022, sent to all members, FGI.
10. Date: 31/03/2022 - GUVNL Notification regarding Districtwise Staggering Holiday, sent to all members, FGI.
11. Date: 31/03/2022 - Seminar on Social Compact - Improving Competitiveness, Sustainability, Compliance & Future Readiness of Business - 16th April, 2022 at FGI Vadodara, sent to all members, FGI.



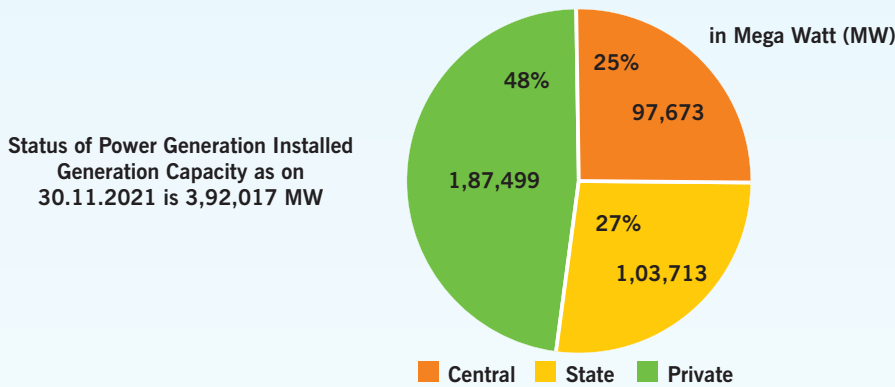
Articles

Electrical Equipment Industry: Stable outlook and signs of revival

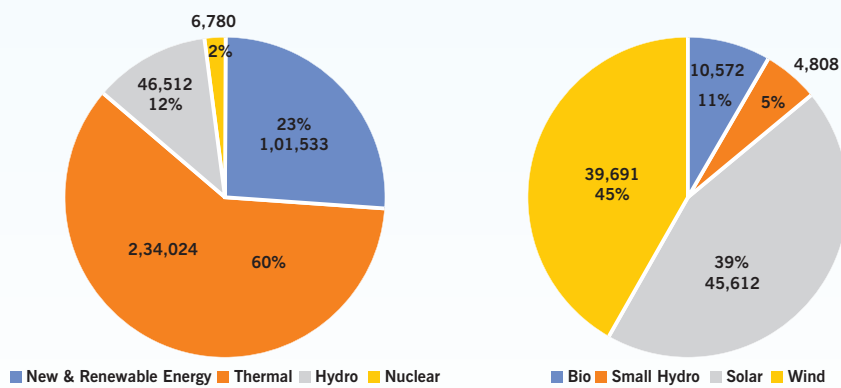
Energy sector plays a big role in the progress of the country and contributes not only to the economy, but even ease of living and ease of doing business.

India jumped 115 positions to 22nd (2020) from 137th (2014) on World Bank's Ease of doing business - 'Getting Electricity' ranking. Moreover, the power sector in India is forecasted to attract investments worth \$128.24-135.37 bn between FY19-23.

The private sector in the power industry in India generates 47.4% of the country's thermal power, whereas States and the Centre generate 27.1% and 25.5%, respectively. The electricity generation target of Conventional Sources for the year 2021-22 was fixed at 1356 BU i.e. growth of around 9.83% over the actual conventional generation of 1234.608 BU for the previous year (2020-21). This target comprises of 1155.200 BU Thermal; 149.544 BU Hydro; 43.020 Nuclear; and 8.236 BU Import from Bhutan.



The future of the power sector looks bright as by 2026-27, all India power generation installed capacity will be nearly 620 GW, 38% of which will be from coal and 44% from renewable energy. Total Installed Capacity as on April 2021 was 382 GW of which 36.5% was generated from renewable sources. By 2022, India will have 175 GW of renewable energy capacity. This includes 100 GW from solar, 60 GW from wind, 10 GW from biomass and 5 GW from small hydro power.



While conventional energy sources have remained the backbone of power sector, renewable sources of energy are showing good growth with continuous efforts put in by the sector along with support from the industry. The Government of India released its roadmap to achieve 227 GW capacity in renewable energy (including 114 GW of solar power and 67 GW of wind power) by 2022. The Union Government of India is preparing a 'rent a roof' policy for supporting its target of generating 40 gigawatts (GW) of power through solar rooftop projects by 2022.

Installed renewable power generation capacity has gained pace over the past few years, posting a CAGR of 17.33% between FY16–20. As per the Central Electricity Authority (CEA) estimates, by 2029-30 the share of renewable energy generation would increase from 18% to 44%, while that of thermal is expected to reduce from 78% to 52%. Government plans to establish renewable energy capacity of 500 GW by 2030.

Electrification achievements

1. 60 GW conventional power capacity addition in the last three years.
2. Second Unit of 1320 MW Buxar Thermal Power Plant started
3. Power Grid Upgrades New Mariani Sub-Station in Assam
4. Vector Green and Evergreen Power signs MoU. To develop 300 MW wind projects
5. NTPC commissions 660 MW Barh Super Thermal Power Project
6. Commercial operation of 80 MW solar capacity at Jetsar started by NTPC
7. The Singareni Collieries Company (SCCL) commissioned 37 MW solar photovoltaic power plant at Kothagudem
8. NTPC invites tender to set up India's first Green Hydrogen Fuelling Station in Leh.
9. AI subsidiary of Bharat Light & Power will provide solutions for power grid monitoring and maintenance through aerial inspection using helicopters, drones and other sensor packages through its partnership with US-based Sharper Shape
10. The Union Ministry of Science & Technology has sets up a concentrated solar thermal (CST) based test rig facility at Hyderabad
11. Essar Power Ltd will set up a 90 MW solar plant in Madhya Pradesh at an
12. Solar tariffs in India reduced from Approx Rs. 7.36/kWh in 2014- 15 to Rs. 2.63/kWh in 2019- 20
13. As December 2020, over 47.65 billion kWh being saved per year by using LED
14. The Sumitomo Electric and Siemens Energy joint venture (JV) has completed connecting India's first high-voltage direct current (HVDC) link featuring voltage-sourced converter (VSC) and DC-XLPE cable technology

The power sector in India is undergoing a significant change that has redefined the industry outlook. The future of power industry here is bright, and sustained economic growth continues to drive electricity demand in India. The Government of India's focus on attaining 'Power for all' has accelerated capacity addition in the country.

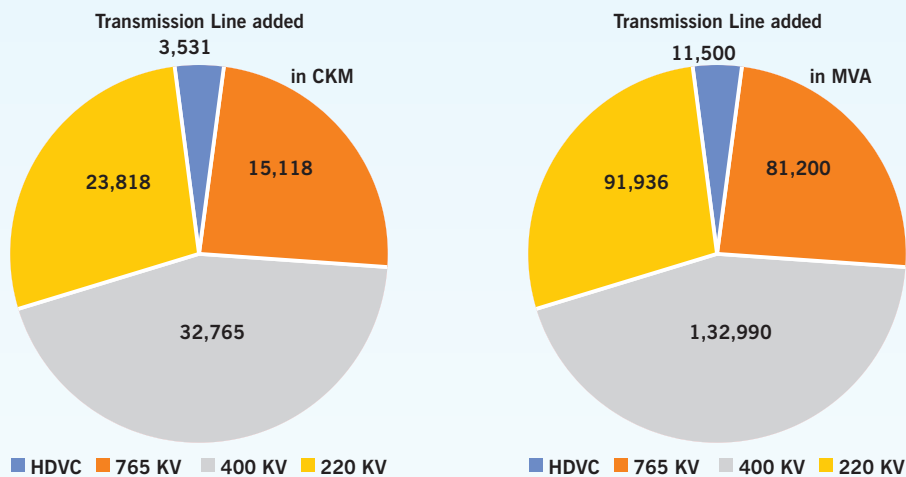
The Government of India has identified power sector as a key sector of focus to promote sustained industrial growth. Some initiatives by the Government to boost the Indian power sector are as below:

Government Initiatives

1. Projects worth \$4.42 bn sanctioned in 32 States/ UTs. An additional amount of \$1.92 bn has been sanctioned for the creation of additional infrastructure to support 100% household electrification.
2. 100% FDI in the power sector in India is allowed for generation from all sources except atomic energy
3. 49% FDI allowed in Power Exchanges registered under the Central Electricity Regulatory Commission (Power Market) Regulations, 2010 under automatic route

4. 23 new inter-state transmission system projects worth INR 15,893 crore. The new inter-state transmission system (ISTS) projects comprise 13 projects with an estimated cost of INR 14,766 crore to be developed under Tariff Based Competitive Bidding (TBCB) and 10 projects with an estimated cost of INR 1,127 crore to be developed under Regulated Tariff Mechanism (RTM)
5. Govt to increase PLI funding for solar manufacturing to INR.24,000 cr
6. To Promote Clean Energy Consumption, Power Ministry proposes Amendment to Energy Conservation Act, 2001
7. Export-Import Bank of India (Exim Bank) announced extending a line of credit (LOC) worth US\$ 100 million to the Sri Lankan government for the purpose of funding projects in the solar energy sector and assure that the country's 70% power requirements are met by renewable energy sources by 2030.

Under One Nation-One Grid-One Frequency, 11,921 ckm of Transmission lines (220 kV and above) and 35,760MVA Transformation capacity has been added during 2020.



Reflection of growth in power sector can be seen in electrical equipment industry. Indian Electrical Equipment industry has registered growth of 33% as compared to last year but de-growth of 3.2% if compared with pre-covid normal time.

However, the industry is still lagging behind by about 3.2% in terms of overall production/sales as compared to the normal/pre-covid period of first half of FY2019-2020

The 2nd Quarter of this financial year 2021-22, clocked a growth of 22.4% over 2nd Quarter of last year and 14.5% growth over 1st Quarter of current year i.e. Q-O-Q basis

The above data is based on production/ sales data collected from member organizations, which represent over 90 percent of the entire electrical equipment installed in India coupled with detail analysis non-member segment. Salient observations are as under.

Transmission equipment covering Transmission line towers and Conductors are still on a moderate growth level of just 8% over last year whereas overall Insulators and Surge Arrester showing a growth of 29% and 39% respectively in first half year due to pick up in off-take from major utilities and CPSUs like PGCIL.

Sub-station equipment

1. Growth in High voltage switchgears of 95% is mainly from HV & EHV GIS and MV AIS segment; mostly from domestic demand coming from state utilities and CPSUs for increasing the sub-station network.

2. Growth of over 104% and 11.6% in LT Power Capacitors and Power Transformer is attributed to high growth in Exports whereas HT Capacitors showing a decline of 8.5% due to subdued domestic demand
3. Power and Control Cables are witnessing a growth of about 30% due to renewed domestic demand with support of increased export orders

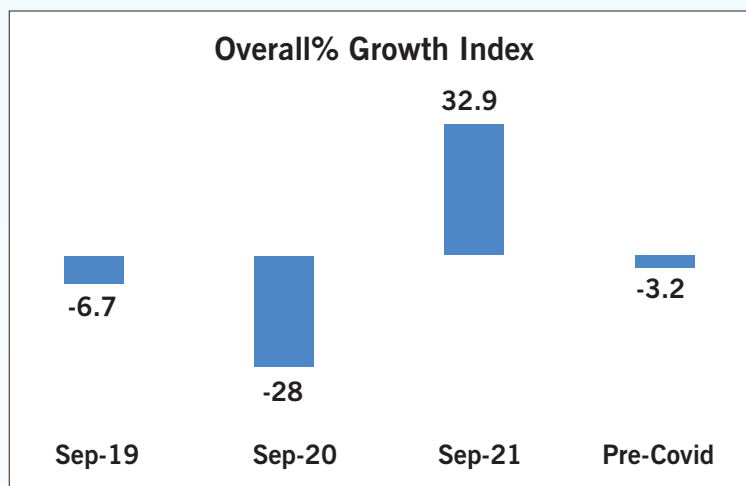
Distribution equipment

4. Energy Meters demand especially for Smart prepaid meters is coming back in this year due to increased export orders and some order finalizations showing a growth of 44% over a very low base of previous year; however, this demand is still down by over 46% as compared to pre-covid period
5. Low Voltage switchgear has continued its growth trend from last year registering 62% growth due to sustained demand from Realty, Infrastructure & other manufacturing industries.
6. Similarly, rotating machines segment also riding high on growth of 76%; mainly due to effect of policy change of replacing old inefficient motors with minimum IE2 standard high efficient motors. Core sectors like Cement, Steel, Water etc. are major drivers for the same,

Though overall Exports have increased by 30%, Imports have also surged by 46% especially for

Transformers & parts, LV and HV Cables, LV & HV Custom built products like Control panels, MCC, PCC, rotating machines & parts, Insulating fittings etc.

China still accounts for 36% share in Imports which is grown by 50% in the first half year compared to same period of previous year followed by Germany (9% share & 46% increase) and Japan (7% share & 88% increase)



Challenges faced by the Industry

- Delayed payment by Central Public Sector undertakings and State Utilities to suppliers / contractors impacting cash flow and liquidity. Non-release of funds for projects already awarded by CPSUs / States
- Reduction in performance security to 3% not implemented by many States utilities
- Introduction of scheme for Replacement of Product Security with Insurance Bond

- Banks not giving due credit rating while lending to equipment manufacturers as a cascading effect of poor customer health of electrical industry. 90-day credit period to industry arithmetically gets converted into an NPA on 91st day
- Unprecedented sharp price rise of key commodities viz. Steel, Aluminum, Copper, Zinc, Polymers, resins, Epoxy Resin
- Non availability of raw materials and components due to supply demand imbalance (CRGO, CRNGO, Permanent Magnets, Silicon compound, electronic devices, battery, LCD, PCB etc.).
- Force Majeure Clause – Request extension of delivery schedules with PV till mid-2022, without liquidated damages / penalty
- Remove Reverse Auction - Tends to be more emotional instead of being based on logical perspective
- CPSU/ State Utility orders on fixed price contracts resulting in huge loss. Hence inclusion of PV Clause in procurements by CPSUs, and State Utilities in centrally funded procurements, including TBCB projects
- Lower rates of RoDTEP vis-à-vis MEIS and missing items

Expectations from the Government

- Encourage domestic manufacturing of Semiconductors, PCBs, CRGO etc. under Aatma Nirbhar Bharat. Incentivize localization of manufacturing. To include Power Electronics under PLI Scheme. This will also mitigate risks to grid security and fosters self-reliance.
- Quality procurement - Replacement of L1 procurement by Quality and Cost Based System, or a better method - detrimental for growth and innovations of the industry - Rationalization in Testing Charges & Gaps in Testing facilities. More designated Lab required for testing (Public Private Partnership)
- Review of FTAs causing Trade Distortions, inverted duty & reciprocal testing acceptance
- Technology acquisition – introduce schemes to support Technology acquisition
- Restoration of IT deductions of 200% on R&D spending

Hon'ble Prime Minister of India has envisaged a vision for India and announced that from 2022, the journey of the next 25 years, called as 'Amrit Kaal' ; when we celebrate the centenary of independence, is the nectar period of this creation of a new India.(2022-2047)

Blocks

The building blocks for the industry to achieve this vision and mission are

- Strengthening the core – Focus on energy transition, digitalisation and supply chain security
- Enhanced penetration of electricity in allied sectors – Focus on buildings, transport and industry
- Technology innovation & R&D – Investing in world class manufacturing, technology leadership across Storage & green hydrogen
- Right skilling – Focus on talent upgradation, retention and promotion

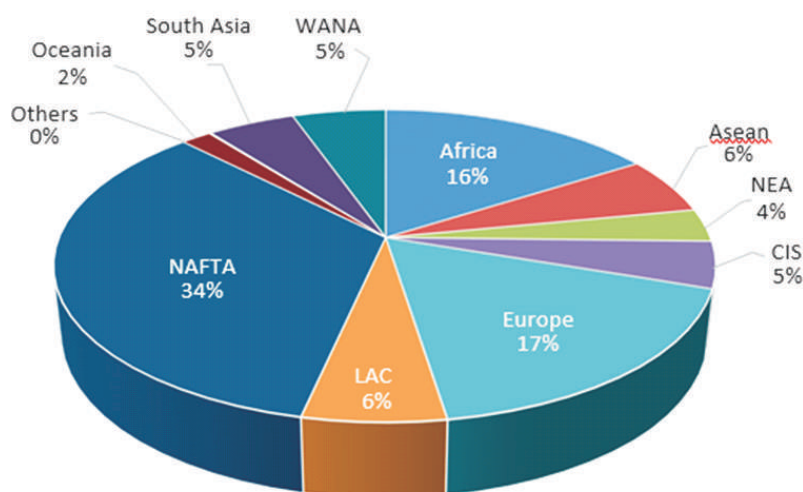
**- By Mr. Vipul Ray,
Managing Director, Elmex Electric Pvt. Ltd.**

Glance at the Pharmaceuticals Industry in India

India is prominent and rapidly growing presence in the global pharmaceuticals industry. It has presence in all therapeutic segments with almost all types of dosage forms and is a rich source of Generic medicines. It is the largest provider of generic medicines globally, occupying a 20% share in global supply by volume, and also supplies 50% of global demand for vaccines. The country's pharmaceutical sector contributes 8.38% to the total merchandise exports. India ranks 3rd worldwide for pharmaceutical production by volume and 14th by value. The country has an established domestic pharmaceutical industry, with a strong network of over 12000 manufacturing plants including bulk drugs and formulations.

Global market has recorded a turnover of \$ 1265.2 billion during the calendar year of 2020 and has grown by just 1%. However, India's Pharmaceutical exports during FY-21, has recorded a growth of over 18%, which happens to be the highest during the last seven years.

Region Wise India's Pharma Exports Fy 2020-21



India's exports during April - March (\$million)				
Category	FY-20	FY-21	Change (%)	Contribution
Ayush	147.19	165.60	12.50	0.68
Bulk Drugs & Intermediates	3867.77	4405.36	13.90	18.00
Drugformulations & Biologicals	14959.09	17959.27	20.06	73.40
Herbal Products	280.88	374.27	33.25	1.53
Surgicals	630.57	677.09	7.38	2.77
Vaccines	817.96	887.65	8.52	3.63
Grand Total	20703.5	24469.2	18.19	100.00

India stands out as an essential component to a concrete global action plan being readied to fight COVID-19, including for large-scale vaccine manufacturing. The urgent need of Remdesivir, Favipiravir, Azithromycin, Doxycycline, Paracetamol, and Hydroxychloroquine alongside PPE & diagnostics kits and many others were fulfilled by Pharma Industry. Indian generic manufacturers dominate the ARV market, accounting for more than 80% of annual purchase volumes. The global HIV drugs market is projected to grow from \$30.46 billion in 2021 to \$45.58 billion in 2028 at a CAGR of 5.9% in forecast period, 2021-2028.

In much need of hour for vaccine to combat Covid-19, M/s. Bharat Biotech developed covid vaccine (Covaxin) which is developed totally in house with support of Indian Council of Medical Research (ICMR) & National Institute of Virology (NIV). Another company M/s. Serum Institute of India could manufacture Oxford-AstraZenecas Covid vaccine 'Covidshield'. These products could meet all the requirements of a safe vaccine and were made market ready in almost less than a year. In India, 95% of the eligible population (15+) has received at least one shot, and 75% of the eligible population (15+) is fully vaccinated. Also, to help other countries, as of 28 January, 2022, India had exported total 14,63,48,400 doses including 1,42,67,000 vaccine provided as grant to more than 96 nations.

To ensure greater resilience to external shocks, the Department of Pharmaceuticals has launched 3 supporting schemes like The Production Linked Incentive (PLI 1.0), Production Linked Incentive (PLI 2.0) and bulk drug scheme. India allows 100% FDI in greenfield, or new, pharma projects under the automatic route. For brownfield pharma, or investments in existing companies, up to 74% FDI is allowed under the automatic route and approval is required beyond that. FDI in the pharmaceutical sector saw a sudden spurt in 2020-21 vis-a-vis the previous year showing a 200 percent increase.

Traditionally slow in the adoption of technology, the industry is now undergoing rapid changes due to the development of several technologies. The prominent pharma industry trends include artificial intelligence (AI), additive manufacturing, blockchain, and other Industry 4.0 technologies. India continues to play a substantial role in manufacturing various important, high-quality and cost-efficient medicines for Indian and global markets. The Pharmaceutical industry in India has unique characteristics with the domination of branded generics, local brands and low-price levels with intense competition.

**- By Mr. Bharat Desai,
Managing Director, Bharat Parenterals Ltd.**

Sustainability and Zero Liquid Discharge For Chemical Industries

PREFACE

Water scarcity is an enormous challenge all over the world. With each passing day, due to increasing water scarcity, water recycling is imperative. Government authorities in major parts of the world are putting massive curbs/limitations on fresh water consumption and encouraging domestic and industrial users to consider water recycling systems to meet the Environment management goals. Zero Liquid Discharge not only controls the pollution but, actually helps in recovering the reusable water. Waste water recovered from the ZLD process is generally reused in utility applications such as cooling tower make-up, boiler feed water, floor washing, toilet flushing and other non-process applications. The overall raw water consumption is offset by recovering water from ZLD to the maximum extent. Typically 80-85% of water can be recovered from the ZLD plant for reuse in various applications. These days the regulations requirements enforced on the industry are stringent and there are prevailing reservations amongst industries regarding Zero Liquid Discharge being difficult, un-economical and un-sustainable solution.

ZERO LIQUID DISCHARGE SOLUTIONS | WHAT IS ZLD?

Zero liquid discharge (ZLD) refers to a treatment process in which the plant Discharges no liquid effluent into surface waters, in effect completely eliminating the environmental pollution associated with treatment. Apart from this benefit, a ZLD process also makes effective use of wastewater treatment, recycling and reuse, thereby contributing to water conservation though reduced intake of fresh water for Bulk drug manufacturers, textile, and chemical and fertilizer plants. Creating zero discharge solution can be accomplished by concentrating the effluent using various techniques, including membrane- based and multiple effect evaporation-based systems, and recovery and recycling of recovered water.

NEED FOR ZERO LIQUID DISCHARGE :

Zero Liquid Discharge (ZLD) is a strategic wastewater management system that ensures that there will be no discharge of industrial wastewater into the environment. It is achieved by treating wastewater through recycling and then recovery and reuse for industrial purpose. Hence ZLD is a cycle of closed loop with no discharge. Although ZLD is a costly process, it paves the way for economic benefits by recovering salts and other chemical compounds also. Factors that motivate the ZLD system are:

1. Water conservation by Reuse
2. Environmental regulations requirement of ZLD
3. Non availability of Discharge point.
4. Feasibility and Economics of ZLD
5. Treatability of Biological treatment
6. Possibilities of Imp salt Recovery

Different methods can be employed to achieve ZLD:

1. Physio-chemical treatment
2. Biological Treatment with Effluent Segregation
3. Thermal process (evaporation)
4. Drying of salts
5. Ultra filtration and Reverse osmosis(membrane technology)

WASTE WATER GENERATION AND FEASIBILITY OF ZLD

The first phase of implementation of successful ZLD system involves identification, quantification and characterization of the sources of liquid waste effluent generated in the plant. Effluents generated by in chemical industry by various activities conducted in the production facilities such as raw material processing, discharge of aqueous top layers, hydrolysis distillation, batch to batch reactor washes, filtration, floor washes etc. Other sources include residues from solvent recovery, high TDS effluents, utility blow-downs, vacuum pumps, sewage etc. Identification of effluent sources should be carried out in two phases – In the first phase, genuine effluent sources are identified along with production representatives from each block by analyzing the manufacturing processes and estimating the total effluent load from each process.

WASTE WATER CHARACTERIZATION & SEGREGATION -

Waste water characterization is the process of classifying waste effluent streams generated from various sources depending upon their individual pollutant parameters (viz. COD, BOD, TDS, TSS, NH₄, etc). After the determining the effluent load on the biological treatment system with respect to effluent volumes generated, the total organic load onto the system is determine in terms of kg COD/BOD and kg TDS for individual influent streams.

Based on these parameters, the waste streams are categorized as:

1. High Pollutant Streams (HPS)
2. Low Pollutant Streams (LPS)

High Pollutant Streams (HPS) as the name itself suggests, are streams containing high polluting parameters (COD & TDS) in the form of high organic content and salt concentration. HPS streams are unsuitable for addition to the biological treatment system since high organic content is toxic for bacteria/micro-organisms present in the aeration tanks while high salt concentrations result in higher osmotic pressure on the exterior of the bacterial cell cytoplasm and causes it to rupture resulting in death of biomass. The HPS streams added to the main effluent also makes biological treatment unviable to achieve the required biological treatment efficiently. Biological treatment is the least cost of treatment and it should not be ruined by adding HPS streams. Hence, effluent streams categorized as HPS must be collected separately and treated using other unit processes to remove in-organic TDS as well as residual solvents such as stripping, evaporation, MEE , ATFD, drying etc.

Similarly, Low Pollutant Streams (LPS) are those which contain relatively lower polluting parameters (COD & TDS) and are suitable for treating with the biological treatment system after performing initial primary treatment as the first step to remove suspended matter. Here, when the organic loads are lower, the ETP plant operators are able to maintain an optimum food to micro-organism ratio (F / M) in

the bio-reactor/aeration tanks to result in maximum bio-degradation of organic impurities and healthy biomass if the TDS levels are maintained. Waste water segregation is the process of efficiently trapping and/or collecting the individual streams characterized as HPS or LPS into separate collection tanks and then transferring them to their respective treatment facilities whilst preventing any seepage and/or internal mixing between them. All production units must adhere to this segregation philosophy that HPS are drained to nearby/common HPS collection tank and LPS is drained to nearby LPS collection tank. A transfer system then works to send HPS & LPS to their respective treatment plants. Hence, waste water characterization & segregation is the next important step in implementation of Zero Liquid Discharge (ZLD) system. Thereafter, each stream is categorized into HPS and LPS based on the COD/TDS loadings.

SUGGESTED SEGRAGATION PHILOSOPHY OF HPS & LPS STREAMS

After in depth study, data collection and analysis of each effluent stream generated in each production block, classify the streams into two main categories as below –

HPS (High Polluted Streams)

LPS (Low Polluted Streams)

In a broad sense, following infrastructure will be required in each block. Separate piping and isolation valves at the drain/outlet of each reactor and filter to divert HPS and LPS discharges to their respective floor main header pipes. HPS & LPS Main header pipes on each floor to transfer the floor-wise collection to the respective collection/day tanks. HPS & LPS collection / day tanks at the ground floor or underground tanks nearby each production blocks with minimum 24 hrs. hold-up volume. HPS & LPS transfer pumps for pumping the collected effluents in the day / collection tanks to the subsequent treatment units in ETP area. Separate LPS & HPS piping, should be provided to transfer HPS & LPS to their respective treatment units in ETP area via transfer pumps. Magnetic Flow Indicators with Totalizer on the discharge of each LPS & HPS transfer pumps to quantify the effluents generated. It is envisaged that the ETP operating staff shall analyze sample of daily generation of HPS and LPS before authorizing to transfer for further treatment.

TECHNICAL ASPECTS OF ZLD IMPLEMENTATION -

1. HPS Pre-Treatment Plant :

The Pre-Treatment facility of HPS streams shall equalize/neutralize the HPS streams and remove the TSS as well as scale forming organics to the maximum possible extent by coagulation and flocculation in a batch-wise operation in the HPS pre-treatment plant. The pre-treated HPS with reduced scaling potential will be suitable for feeding to the evaporation plant.

2. Evaporation Plant for HPS –

The evaporation plant comprises of the following equipment –

- i. Stripper
- ii. MEE (Multi-Effect Evaporator)
- iii. ATFD (Agitated Thin Film Dryer)

The HPS stream after pre-treatment shall be routed through a stripper column for removal of low boiler organics and solvents that cause a hindrance in the stable operation of MEE.

The stripper bottoms shall be fed to multiple effect forced circulation evaporator for concentration of the HPS stream 40-50% total solids after the last effect. The condensate from the MEE plant shall be transferred to the biological ETP for combined treatment along with LPS. The concentrated residue from the MEE shall be routed through an ATFD unit to generate dry bag-able salts for disposal. The ATFD condensate shall also be transferred to the biological ETP.

3. Biological ETP for LPS streams

The ETP shall receive the following effluent streams:

- i. LPS streams from all the production blocks.
- ii. Condensate from the MEE plant
- iii. Condensate from the ATFD
- iv. Domestic waste from septic tanks & canteen.

The biological treatment plant is designed depending on the characterization of LPS streams and suitable treatment technologies are employed such as Conventional Activated Bio-Treatment, MBR, MBBR, Anaerobic treatment, physio-chemical treatment, advanced oxidation plants, etc. The required organic removal is achieved in biological treatment with the least cost of operation which makes the Biological treatment feasible and more effective.

4. RO Plant

The treated water from the LPS biological ETP shall be treated in a UF/RO plant to remove the TDS in the concentrated reject stream. The recovered permeate of RO plant shall be reused either in boiler or cooling tower. The reject stream has high TDS and shall be routed to MEE plant designed for RO rejects. The RO plant should be designed for 80% recoveries of low TDS reusable permeate. **Membrane Technology for water recovery:**

Various Membrane technologies employing different types of polymeric RO membranes are available for ZLD desalination. The use of membrane technology facilitates the good quality water recovery and reuse. There is a rapidly expanding range of emerging membrane technologies for sustainable water treatment and reuse. Reverse Osmosis (RO) membranes are capable of processing contaminated water with containing mild suspended solids and salt levels. These are selected based on the TDS levels of the treated effluents streams discharged from the biological treatment which ensures that the maximum organic content of the effluents is removed before feeding to the RO system. However, the practical achievement of ZLD goals surely depends crucially on the engineering of the ZLD system.

Membrane Separation Processes used for waste water treatment and purification include:

- I. Micro Filtration
- II. Ultra-Filtration
- III. Reverse Osmosis

SUSTAINABILITY OF ZLD IMPLEMENTATION

Factors to be considered for Sustainable ZLD Implementation:

- I. Water Conservation by Reuse in Industrial Processes
- II. Cost (CAPEX) vs. Statutory Requirements

III. Cost (OPEX) vs. Environment Responsibility

IV. Possibility of Recovery of Important Salts

V. Effluent Discharge Problems.

VI. Treatability Study of Biological Treatment

The effluents generated from various bulk chemical, pharmaceutical, dyes and agrochemical industries contain toxic and refractory compounds categorized in the previous section of this article since, HPS streams are difficult to treat in a conventional biological treatment plant. Hence, in such applications, a ZLD plant implementation becomes indispensable. In the present day scenario, the Pollution Control Authorities have put in place stringent effluent discharge norms for industries generating highly contaminated effluent streams. These discharge norms cannot be achieved using conventional methods. Hence, the implementation of ZLD is unavoidable in this situation.

CONCLUSION :

The following conclusions are drawn for Implementation of ZLD in chemical manufacturing process industry:

- Effluent Characterization and Segregation is the most important factor in implementing successful ZLD plant.
- It is imperative to collect these effluent streams separately since both streams require different treatment methods to successfully achieve effective biological treatment and fulfill the ZLD objective.
- The HPS streams shall be transferred from each block to the HPS treatment plant separately, HPS treatment steps which include pre-treatment, stripper, evaporation plant and dryer are required to remove total dissolved and suspended solids as well as organics from the feed to obtain a lean bio-treatable condensate and bag-able salts at the end of treatment to be discarded as solid waste disposal.
- LPS streams after segregation along with condensate from MEE should be treated in suitably designed biological effluent treatment plant after physic-chemical primary treatment.
- The RO reject stream should be subjected to treatment for remove of dissolved salts in a Multi effect Evaporation plant and drying to obtain condensate which shall be directly reused and salts can be disposed as solids.
- Treated water from Bio-ETP should be reused with the help of appropriately designed membrane technology. The permeate generated by the RO systems can be reused in cooling tower make-up, boiler feed water, plant washing and raw-water makeup.
- The success of ZLD system lies in the engineering capabilities and the range of knowledge of technologies of great potential which engineers can use.

- By Mr. Parth Basu,
Executive Director, Parth Projects & Construction Pvt. Ltd.

Government Circular on Payment of Gratuity Act, 1972

Clarification under section 8 of The
Payment of Gratuity Act, 1972.



Government of Gujarat
Labour, Skill Development & Employment Department
Circular No: CM0/102021/303909/M-3
Sachivalaya, Gandhinagar.
Dt.09/02/2022

Circular :

A query has been raised regarding the interpretation of the provision of section 8 of the Payment of Gratuity Act, 1972. In which clarification has been sought, on whether, the Controlling Authority is required to issue the certificate only with regard to the unpaid amount of gratuity by the employer to the person entitled thereto or the said authority is required to issue the certificate not only with regard to the unpaid amount of gratuity but also including the amount of compound interest on such unpaid amount of gratuity.

An opinion of the Legal department, Gujarat state has been sought on the said matter, and accordingly, it is hereby clarified that:

- (1) Under the provision of section 8 of the said Act, "that amount" means the amount of gratuity which is payable under the Act by the employer to the person entitled thereto but has not been paid by the employer within the prescribed time limit. And, the Controlling Authority is required to issue a certificate only with regard to the unpaid amount by the employer to the concerned person.
- (2) Further as provided in section 8, after the Controlling Authority issues the certificate of the unpaid amount, the duty is cast upon the District Collector to recover the said unpaid amount along with the compound interest at such rate as the Government of India may specify, from the date of expiry of the prescribed time, as arrears of land revenue and pay the same to the person entitled thereto.

However, as provided in section 8, before the Controlling Authority issues the certificate, he is required to give the employer a reasonable opportunity of showing cause against the issue of such certificate and while recovering the unpaid amount along with the compound interest thereon, the District Collector shall ensure that the amount of compound interest, payable shall, in no case exceed the amount of gratuity payable under the Act.

(3) The offices /officers dealing with the said Act are directed to act accordingly.

This issues with the approval of the competent authority.

By order and in the name of the Governor of Gujarat,



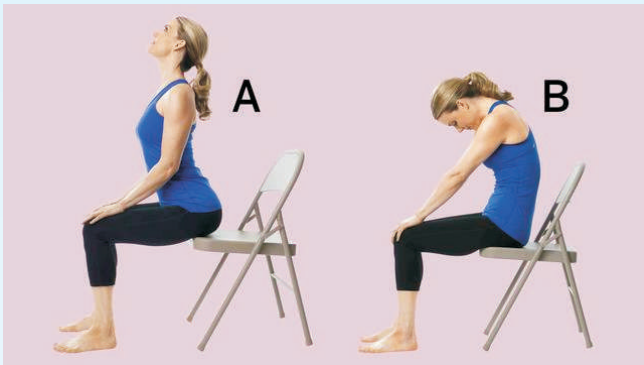
(GAGUBHA RAJ)
Deputy Secretary to Government.

- To,
- The Secretary to Governor, Rajbhawan, Gujarat State, Gandhinagar. (By letter)
 - The Secretary to Hon'ble Chief Minister, Swarnim Sankul- 1, Sachivalaya, Gandhinagar.
 - The PS to Hon'ble Minister, Labour, Skill Development and Employment, Swarnim Sankul- 2, Sachivalaya, Gandhinagar.
 - The Joint Secretary to Chief Secretary, Block No.-1, 5th Floor, Sachivalaya, Gandhinagar.
 - The Principal Secretary, Labour, Skill Development and Employment Department, Sachivalaya, Gandhinagar.
 - The Labour Commissioner, Block No.11, Udhog Bhavan, Sector-11, Gandhinagar.- with a request to intimate all the concerned offices.
 - All District Collectors, Gujarat State. (By Mail)
 - Deputy Section Officer Select File.
 - Branch Select File.

New Members of FGI (January - March 2022)

Sr. No.	Company Name	Name & Designation of Principal Nominee	Date of Joining	Activity of The Company	Category
1	Joule Engineering Works	Mr. Nikhilkumar Bhatt Partner	January 07 th , 2022	Mfg. of Pressure Vessels, Skids And Structures & Fabrication of Process Equipment	Ordinary: Mechanical & Metallurgical
2	Anshuman Transpower Systems Pvt. Ltd.	Mr. Parth Parmar Director	March 04 th , 2022	Mfg. & Supply of Different Types of Laminations For Distribution & Power Transformers, Assembled Core, Core Coil Assembly, Duo Core	Ordinary: Electricals & Electronics
3	S. P. Chemicals	Mr. Rahul Patel Partner	March 04 th , 2022	Mfg. of Sodium Formaldehyde Bisulphite, Ammonium Bisulphite Solution, Sodium Thiosulphate Anhydrous, Sodium Thiosulphate Pentahydrate	Ordinary: Chemicals, Petrochemicals & Pharmaceuticals
4	Supertech Fabrics Pvt. Ltd.	Mr. Utssav Gupta Director	March 04 th , 2022	Mfg. of Technical Textile Products	Ordinary: Textiles
5	T & D Industries	Mr. Janak Shah Partner	March 04 th , 2022	Mfg. of Pipe Rack Structure, Ship Fabricated Equipment, Piping Spool Ect.	Ordinary: Mechanical & Metallurgical

Health & Wellness



10 Chair Yoga Poses for Home Practice

Chair yoga is a general term for practices that modify yoga poses so they can be done while seated in a chair. These modifications make yoga accessible to people who cannot stand, lack the mobility to move easily from standing to seated to supine positions, or want a quick break from office work.

Many of the basic body mechanics of the individual postures remain the same. While seated on chairs, students can do versions of twists, hip stretches, forward bends, and mild backbends.

In addition to a good stretch, chair yoga participants can also enjoy other health benefits of yoga, including improved muscle tone, better breathing habits, stress reduction, better sleep, and an improved sense of well-being.

The Best Chair for Yoga

Since chair yoga is all about adaptability, it should come as no surprise that the particular chair you use is not important; you don't have to run out and buy a specialized yoga chair. Chairs with wheels are not ideal since they are unstable, but almost any other chair will do. If you are on the shorter side, put blocks or a folded yoga mat under your feet to give yourself a firm foundation.

Chair Cat-Cow Stretch

Sit on a chair with the spine long and both feet on the floor. Place your hands on your knees or the tops of your thighs.

On an inhale, arch your spine and roll your shoulders down and back, bringing your shoulder

blades onto your back. This is cow position.

On an exhale, round your spine and drop your chin to your chest, letting the shoulder and head come forward. This is cat position.

Continue moving between cow on the inhalations and cat on the exhalations for five breaths.

Chair Raised Hands Pose - Urdhva Hastasana

On an inhalation, raise your arms toward the ceiling.

Maintain good upper body posture with the shoulders relaxed and rib cage sitting naturally over the hips. Anchor your sit bones in your chair seat and reach up from there.

Chair Forward Bend - Uttanasana

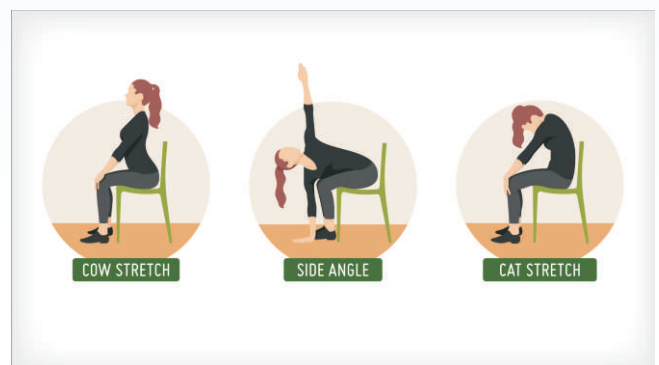
On an exhalation, come into a forward bend over the legs. Let the hands rest on the floor if they reach it. Let the head hang heavy.

On an inhalation, raise the arms back up over the head. Repeat this movement between a raised arms position and a forward fold several times, moving with the breath.

Chair Extended Side Angle - Utthita Parsvakonasana

After your final forward bend, stay folded. Bring your left fingertips to the floor on the outside of your left foot. If your left hand doesn't come easily to the floor, place a block under it or bring it to your left knee instead and twist from there.

Open your chest as you twist to the right on an inhale, bringing your right arm and gaze up at the



ceiling. This is your chair version of extended side angle pose. Hold here for several breaths. Bring the right arm down on an exhale.

Do the same position with the right arm down and the left arm up.

Chair Pigeon - Eka Pada Rajakapotasana

Come back up to sit. Bring your right ankle to rest on your left thigh, keeping the knee in line with your ankle as much as possible. Hold this chair pigeon for three to five breaths.

You may forward bend to intensify the stretch if you like. Repeat with the left leg.

Chair Eagle - Garudasana

Cross your right thigh over your left thigh for eagle pose. If you can, wrap the right foot all the way around the left calf.

Cross your left arm over the right one at the elbow. Bend the elbows and bring your palms to touch.

Lift the elbows while dropping the shoulders away from the ears. Hold three to five breaths.

Repeat on the other side.

Chair Spinal Twist - Ardha Matsyendrasana

Come to sit sideways on the chair, facing to the left. Twist your torso toward the left, holding onto the back of the chair, for a spinal twist.

Lengthen your spine on each inhale and twist on each exhale for five breaths.

Move your legs around to the right side of the chair and repeat the twist to the right side.

Chair Warrior I - Virabhadrasana I

Now keep the right leg in position over the side of the chair while you swing the left leg behind you.

Plant the sole of the left foot on the floor roughly parallel to the seat of the chair and straighten the left leg.

Keep your torso facing over the right leg as you raise your arms up to the ceiling on an inhale coming to warrior I. Hold for three breaths.

Chair Warrior II - Virabhadrasana II

On an exhale, open up the arms with the right arm coming forward and the left arm going back.

Draw the left hip back and turn the torso to the left, so that it is aligned with the front of the chair.

Gaze out over the right fingertips and hold warrior II for three breaths.

Reverse Warrior

Let the left arm come down the left leg and lift the right arm up to the ceiling on an inhale for reverse warrior. Hold for three breaths.

Bring both legs to the front of the chair before coming to sit sideways on the chair facing left and going through the series of three warrior poses on the left side.

Final Relaxation: Chair Savasana

Take a few minutes to sit with your eyes closed and hands in your lap at the end of your practice. This seated savasana will help your body absorb all the good effects of the poses you have done and transition you into the rest of your day.

Compiled by Mr. Premal Dave, Secretary General, FGI

MEDIA BUZZ

બુધવાર, તા. ૦૨ ફેબ્રુઆરી, ૨૦૨૨

ઉદ્યોગ જગત, સીએ, શેરબજાર અને કેડાઈના બજેટ પ્રતિભાવ

બે લાખ કરોડની પોલિસી એમએસએમઈ માટે ખૂબ જ ઉપયોગી નીવડી શકશે



“બજેટમાં કોઈ મોટો બદલાવ નથી. એમ.એસ.એમ.ઈ માટે બે લાખ કરોડની પોલિસીની જાહેરાત ખુબ જ ઉપયોગી સાબિત થશે. સિમ્પલ અને મેચ્યોર બજેટ છે. » અભિષેક ગંગવાલ, પ્રેસિડેન્ટ, એફજીઆઈ

પાછલા વર્ષની આવક જાહેર કરીને બ્લેક મનીને વ્હાઈટ કરવાની તક મળશે



“બે વર્ષ માટે રિટર્નમાં બદલાવની જે વાત છે તે કરદાતાઓ પાછલા વર્ષની આવકને જાહેર કરી શકે છે, જેથી સરકારને આવક થશે અને બ્લેક મની ઈનડાયરેક્ટ વ્હાઈટ થશે. » સંજીવ શાહ, ચાર્ટર્ડ એકાઉન્ટન્ટ

પગારદાર વર્ગ માટે કોઈ જોગવાઈ નથી, ખેડૂતો માટે જાહેરાતો સારી છે



“કેન્દ્રીય બજેટમાં પગારદાર વર્ગ માટે કોઈ જોગવાઈ નથી વડોદરા નોકરિયાત વર્ગનું શહેર છે. મધ્યમ વર્ગ માટે ટેક્સમાં બદલાવની જોગવાઈ એવી આશા હતી, ખેડૂતો માટે જાહેરાતો ખૂબ જ સારી છે. » મોહન નાયર, ઉદ્યોગપતિ

વડોદરાના ઉદ્યોગ સંગઠનો કેન્દ્ર સરકારના બજેટથી ખુશ કેડિટ લાઈન ગેરંટી સ્કીમને લંબાવવાના નિર્ણયથી નાના ઉદ્યોગોને ફાયદો થશે

કેન્દ્ર સરકારે આજે રજૂ કરેલા બજેટથી વડોદરાના ઔદ્યોગિક સંગઠનો ખુશ છે અને તેમના મતે આ બજેટના

બે લાખ કરોડની વધુ કેડિટ આપવાની જોગવાઈ પણ કરાઈ છે: ઈન્ફ્રાસ્ટ્રક્ચર યોજનાઓ પર ફોકસ તેમજ વિવિધ યુટી ઘટાડવાની જાહેરાત પણ આવકાર્ય

ઓદ્યોગિક સંગઠન કેન્દ્રના આઈ.એમ.એસ.એમ.ઈના ઈન્ફ્રાસ્ટ્રક્ચર ટેમજ વડોદરા ચેમ્બર ઓફ કોમર્સ એન્ડ ઈન્ડસ્ટ્રીઝના હોદ્દદારોનું કહેવું હતું કે, બજેટમાં એમએસએમઈ માટેની ઈમરજન્સી કેડિટ લાઈન ગેરંટી સ્કીમને વધુ એક વર્ષ લંબાવવાઈ છે. જેના ભાગરૂપે ૫૦૦૦૦ કરોડ રૂપિયાની બીજી જોગવાઈ કરાઈ છે. આ ઉપરાંત એમએસએમઈને કેડિટ ગેરંટી ટ્રસ્ટ સ્કીમ હેઠળ વધારાના બે લાખ

કરોડ રૂપિયાનું પૂરો પાલન આપવામાં આવશે. તેની સાથે સાથે સરકારે કેપિટલ એક્યુમિયેશન માટે ૦.૫ લાખ કરોડ રૂપિયા ફાળવવાની જાહેરાત કરી છે. તેનાથી ઈન્ફ્રાસ્ટ્રક્ચર યોજનાઓને વેગ મળશે. જેનો ફાયદો ઉદ્યોગોને મળશે. સ્ટીલ પરની ડ્યુટી ઘટાડવાની અને ઉદ્યોગો જે મશિનો મંગાવે છે તેના પરની ડ્યુટી ઘટાડવાની જાહેરાત પણ આવકાર ધાયક છે.

આવરી લેતુ બજેટ રજૂ કર્યું છે તેવું ઉદ્યોગ સંગઠનોનું કહેવું હતું.

કેપિટલ ખર્ચ વધારીને ઈકોનોમીને બૂસ્ટર ડોઝ આપવાનો પ્રયાસ

સેન્ટ્રલ ગુજરાત ચેમ્બર ઓફ ટેક્સ કન્સલ્ટન્ટના ઉપ પ્રમુખ દીપક અમીનનું કહેવું છે કે, આગામી દિવસોમાં ગ્રંટીઓ હોવા છતાં બજેટમાં કોઈ જાતની વધારાની યોજનાઓની જાહેરાત કરાઈ નથી. કેપિટલ ખર્ચનું રોકાણ વધારીને ઈકોનોમીને બૂસ્ટર ડોઝ આપવાનો આપવાનો પ્રયાસ કરાયો છે અને લાંબા ગાળાના ગ્રોથ રેટને ધ્યાનમાં રખાયો છે.

બજેટ સારું પણ નોકરીયાત વર્ગની આશા પૂરી ના થઈ

નંદેસરી જીઆઈસીના પૂર્વ પ્રમુખ મોહનલાલ નાયરના મતે બજેટ મધ્યમી રીતે સારું છે પણ તેમાં નોકરીયાત વર્ગને કોઈ ફાયદો કરાવાયો નથી. ડાયરેક્ટ ટેક્સ લિમિટમાં સરકાર વધારો કરશે તેવી આશા લોકોને હતી પણ તે આ બજેટમાં પૂરી થઈ નથી. બાકી ઉદ્યોગોની સાથે સાથે ખેડૂતોને પણ ફાયદો થાય તેવું બજેટ છે.

બજેટમાં કોઈ ધરખમ ફેરફારોની જાહેરાત નથી કરાઈ

એફજીઆઈ પ્રમુખ અભિષેક ગંગવાલનું કહેવું છે કે, શેરબજારે પણ બજેટને હકારાત્મક પ્રતિસાદ આપ્યો છે. બજેટમાં કોઈ ધરખમ સુધારા વધારા કરવામાં આવ્યા નથી. ઇલેક્ટ્રિસિટી, અર્બન પ્લાનિંગ, ઘરે ઘરે પાણી પહોંચાડવા જેવી યોજનાઓ પર ભાર મુકાયો છે. આરટીઆઈ પોતે ડિજિટલ કર-ન્સી ઈન્ફ્રાસ્ટ્રક્ચરની હોવાથી લોકોની શંકાઓ દૂર થશે. બહુ સરળ અને પરિપક્વ બજેટ છે.

નવા લોજિસ્ટિક પાર્કના કારણે માલની હેરફેર ઝડપી બનશે

વડોદરા ચેમ્બર ઓફ કોમર્સના વાર્ડન પ્રેસિડેન્ટ હિમાંશુ પટેલનું કહેવું છે કે, ચાર લોજિસ્ટિક પાર્ક બનાવવાની જાહેરાતથી માલની હેરફેર ઝડપી બનશે. પીવાના પાણીને ઘરે પહોંચાડવા માટે ગુજરાતની નર્મદા અને તાપી સિંચન દેશની નદીઓને જોડવાનો નિર્ણય પણ

૯.૨ ટકાના ગ્રોથ રેટનો અંદાજ વિકાસની દિશા સુચવે છે

સીએ મનીષ બહીનું કહેવું છે કે, નાણા મંત્રીએ આવકવેરાના માળખામાં કોઈ ફેરફાર સૂચવ્યો નથી તે સાતત્યપૂર્ણ નિર્ણય છે. વૈશ્વિક અર્થતંત્ર તરફનું દિશાસૂચક બજેટ છે. સામાન્ય લોકો, કરદાતાઓ અને પેન્શનરોની અપેક્ષા પૂરી થઈ નથી. કરદાતાઓ હવે બે વર્ષ સુધી અપરટેક્સ રિટર્ન ભરી શકશે તે સારી વાત છે. વચ્ચે આવ ડિજિટલ કર-ન્સી બહાર પાડવાની વાત આવકારદાયક છે. ૯.૨ ટકાનો ગ્રોથ રેટ તેમજ ૯.૪ ટકાની બાધનો અંદાજ વિકાસની દિશા સૂચવે છે. લાંબા ગાળાનું સ્થિર અને સાતત્યપૂર્ણ બજેટ છે.

દેશમાંથી શસ્ત્રો ખરીદવાના નિર્ણયથી ભારતના ઉદ્યોગોને વેગ મળશે

એફજીઆઈના વાર્ડન પ્રેસિડેન્ટ આરતી ભાડુના મતે ઘણા બધા બીન જરૂર કાયદાઓ દૂર કરીને ઈઝ ઓફ ડુઈંગ બિઝનેસ પર ભાર મુકાયો છે. એમએસએમઈને બૂસ્ટ કરવાના પ્રયાસો થયા છે. માળખાકીય સુવિધાઓને વધારવા માટે આગામી પાંચ વર્ષ ધ્યાન આપવાની જાહેરાત થઈ છે. તેનાથી પણ ઉદ્યોગો ફાયદો છે. શસ્ત્રો ખરીદવાના બજેટનો ૬૮ ટકા હિસ્સો દેશમાં જ વપરાવામાં આવશે તેવી જાહેરાતથી પણ ઉદ્યોગોને લાભ થશે.

સેમી કન્ડક્ટર ક્ષેત્રમાં તકો ઉભી થશે



MSMEs is a welcome move. The major thrust on infrastructure, water, urban planning and some clarity on digital currency is good. —Abhishek Gangwal, President, Federation of Gujarati Industries

શાહના કહેવા પ્રમાણે જાહેરાત પ્રમાણે તે ડિજિટલ કર-ન્સી રહી છે. આમ લોકોને ઈન મળશે અને તેમાં ત્ર કરશે. બીજી તરફ રેવાણ પર ૩૦ ટકા કરીને સરકારે તેને ન્યાય આપી દીધી છે કે જેમની પાસે એસેટ નથી તેમના ૩૦ કરોડ રૂપિયાની સેમી કન્ડક્ટર ક્ષેત્રમાં યાના રોકાણના ની તકો ઉભી થશે.

જોએસટી કાયદાની જોગવાઈઓમાં પણ સુધારા

સેન્ટ્રલ ગુજરાત ચેમ્બર ઓફ ટેક્સ કન્સલ્ટન્ટના સ્થાપક પ્રમુખ ભાસ્કર પટેલના જણાવ્યા પ્રમાણે જોએસટીમાં વેરાશાખાનો ઢાલો મજરે લેવાનો બાધ બાકી હોય તો તે પછીના વર્ષ સપ્ટેમ્બરમાં પત્રક-બીમાં મજરે લઈ શકાનો હતો. આ સમય મર્યાદા ૩૦ નવેમ્બર કરવામાં આવી છે. ૧ જુલાઈ, ૨૦૧૭થી વાર્ષિક ૧૮ ટકાના દરે કોટી મજરે લીધેલી અને બોગવેલી વેરાશાખા પર ૫મ વ્યાજ ચુકવવું પડશે. કેટલાક વેજરમાં વેરાશાખાના મહત્તમ ઉપયોગ કરી બાકીનો ટેક્સ રોકડો ભરવાનો રહેશે.

સારી વર્ગ બજેટથી નાખુશ ઈ-કોમર્સ નીતિ જાહેર કરવાની માંગણી સરકારે સ્વીકારી નથી

સરકારના બજેટ વેપારીઓને નિરાશ કર્યા છે તેવું વડોદરા વેપાર વિકાસ સંગઠનના આગેવાન પરેશ પ્રવીપ તેમજ રમેશ પટેલનું કહેવું

વે પકિયામાં નિયમોમાં બદલવાની જરૂર છે. જેના પર સરકારે ધ્યાન આપવું નથી. સરકારે ઈ કોમર્સ પોલિસી પણ જાહેર કરી નથી. ૧૦ લાખ સુધી



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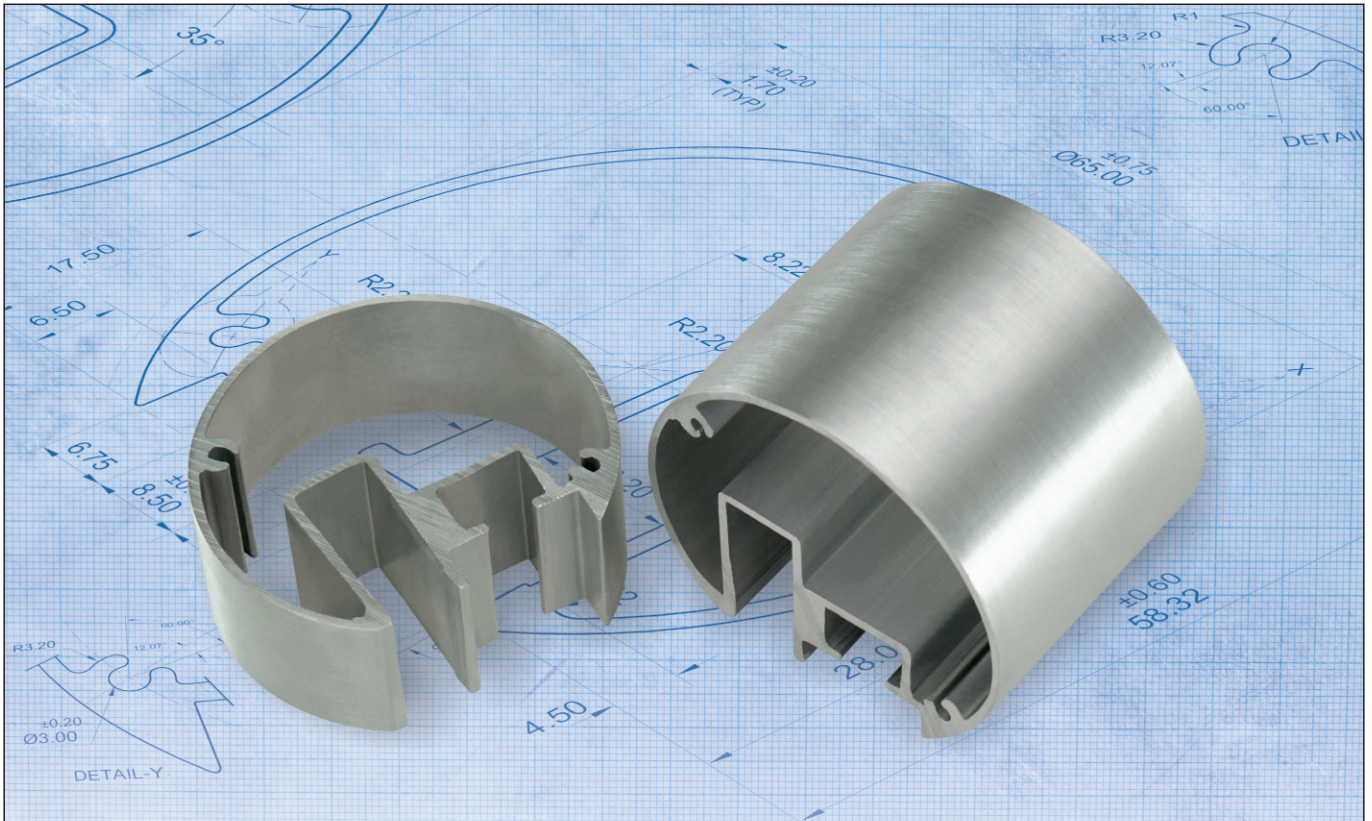
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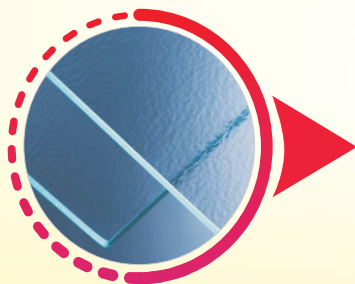
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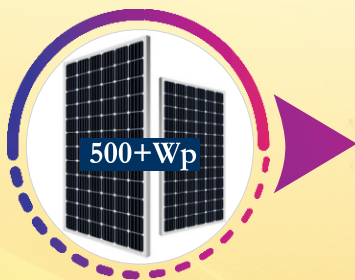
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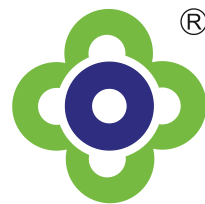
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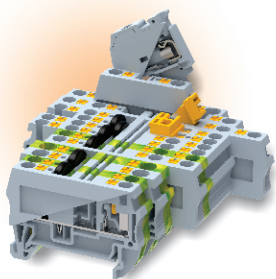
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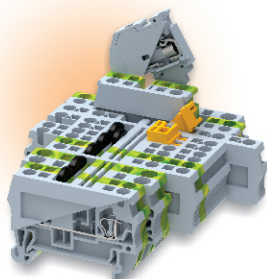
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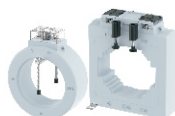
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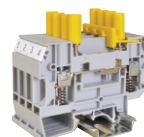
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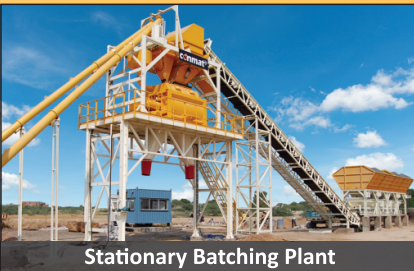
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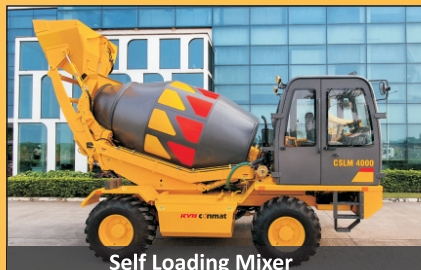
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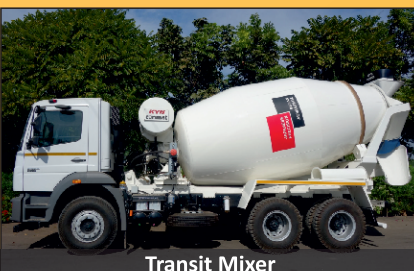
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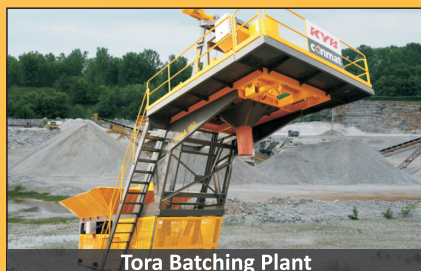
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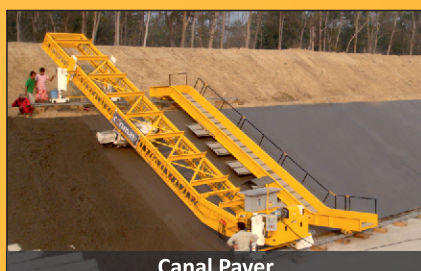
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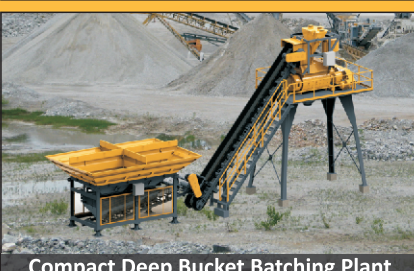
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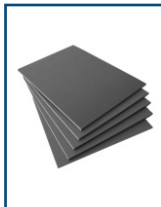
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