

SHOWS OF THE WORLD
VICENZAORO & TUCSON

**WOMEN
LEADERSHIP
IN JEWELLERY**

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DIAMOND ROOF
Hyderabad

CONCLUDES
"MY EMERALD STORY"
DR RAJNIKANT SHAH

**INTERPLAY OF
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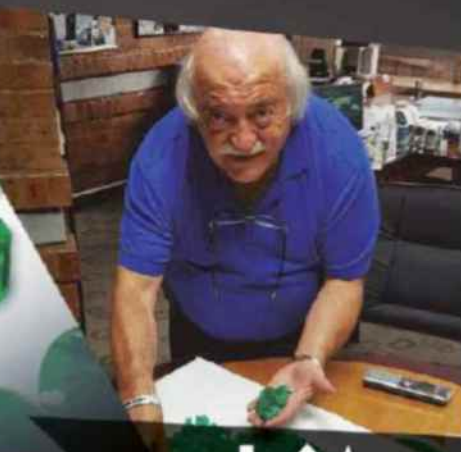
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JAS THE PREMIUM
B2B SHOW

JAGS

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Jewellers Association
Johri Bazaar, Jaipur 302 003 (India)
P: +91 141 4034112-13
F: +91 141 2560125
E: gemworld@jajaipur.com
W: www.jajaipur.com

FOR ADVERTISING, TARIFF OR DETAILS, PLEASE CONTACT:

P: +91 141 4034112-13
M: +91 87696 64864 | +91 99502 11331
E: gemworld@jajaipur.com

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GEM WORLD 2022-24



Dear Members

Wishing you a very happy and prosperous year ahead! The year that went by created a new normal for us and as an industry, jewellery sector has emerged stronger and steadier. I hope you all enjoy this first edition of 2023, which carries trade insights, information, global trends, and lots more. Through this magazine, we also hope to connect with jewellers from Jaipur working in different parts of the world and to appraise them of industry growth in Jaipur. Jewellers Association relentlessly pursues knowledge building through this bilingual magazine for its most esteemed readers.

Warm Regards

Dwarka Prasad Khandelwal

President

Jewellers Association, Jaipur



Dear Readers

Namaskaar! I hope the new year brings to you good health and prosperity. Presenting the first edition of 2023 of Gem World magazine fills me with immense joy of reconnecting with our patrons and readers spread across the globe.

Through this magazine, we bring to you latest news and trade updates from leading shows of the world, expert talks and recent trends. I hope you enjoy reading these.

Warm Regards

Neeraj Lunawat

Hony Secretary, Jewellers Association

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VALENTINE JEWELLERY INDIA PVT LTD

✉ order@valentinejewelleryindia.com

☎ +91-7412077885

VALENTINE JADAU

✉ val.jadau@gmail.com

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ADDRESS

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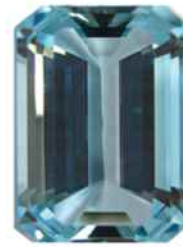
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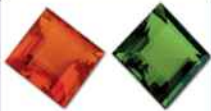
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Corporate Office

RMC Gems India Ltd.

24, Bardiya Colony, Museum Road,
Jaipur 302004 India

Tel: 91-141-2533050,2533092

Email: rmc@rmcgems.in

RMC
www.rmcgems.in

SEZ Factory

RMC Gems India Ltd.

G1-18 & 19, SEZ Phase 1, Sitapura Industrial Area,
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VICENZAORO JANUARY

Culminates on a High Note

The entire jewellery world returned to Vicenza for Vicenzaoro – The Jewellery Boutique Show held from January 20 – 24, 2023. Foreign buyers doubled compared to the 2022 winter edition (+105%) and the +11.5% attendance is an all-time record compared to the pre-pandemic edition of January 2020, despite the fact that Vicenzaoro 2023 was one day shorter. Foreign attendance was close to 60% of the total, from 136 countries around the world, with Europe accounting for 54.5%, the Middle East 9.5%, Asia 9%, Turkey 9%, North America 7.2%, Africa 5.4% and Latin America 4.7%. Among the most represented individual countries were the United States and Turkey, from Europe Greece, Germany, Spain, the United Kingdom and France, from the Middle East the Arab Emirates, Israel and Saudi Arabia, from Asia India, Japan and Thailand. And, at this edition, T.Gold, the main international innovation showcase, with the most advanced jewellery machinery and the latest processes applied to gold and jewellery, organised in partnership with A.F.E.M.O., saw a 10% increase in



exhibition space. In the timepiece segment, VO Vintage, the vintage watch and jewellery event open to the B2C public, consolidated its success and attracted collectors, experts and watch lovers from Italy and around the world.

Numbers and output that give market players an air of optimism, with 1,300 brands exhibiting at the Vicenza show, and 400 foreign hosted buyers, confirming the dynamism of Italian exports, up by +27.2% between January and September 2022, in the photograph that Federorafi presented at Vicenzaoro with figures processed by Confindustria Moda's Study Centre on ISTAT data.

- Attendance up 11.5% compared to the record edition of 2020, coming from 136 countries, led by the United States, Europe and the Middle East, and 400 international hosted buyers
- Over 1,300 brands exhibiting at the show
- T.Gold confirms its role as the main showcase for international technological excellence
- Consolidation of the watch-making segment with TIME for B2B and VO Vintage for B2C

The Vicenzaoro 2023 aisles were constantly crowded with professional operators and qualified buyers from all over the world attracted by the quality of 'Made in Italy' but, above all, by an event capable of meeting all the needs of the international jewellery community.



A gala dinner was specially organised for the Indian trade community at Vicenza on 23rd January, along with their guests to celebrate the ever-growing trade relations between two countries.



Exhibitor **BYTE**

I represent Gem India Exports, a 35 year old company specialising in coloured stones. In this edition of the show, we exhibited different shapes and sizes of rubilite, aquamarine, tanzanite, pink-and-green tourmaline, morganite, alexandrite, tsavorite, etc. The response at the show was very encouraging. There were a lot of enquires for variety of colours for expansive design range. It was nice to see demand for coloured stones rising in this show and a lot of people wanted to know more about opaque coloured stones like turquoise and chrysoprase.

Sudhir Kothari



Through the Lens of Renu Choudhary

WHAT MAKES VICENZAORO SHOW SPECIAL

The first appointment in the calendar of international events brought together the entire gold and jewellery sector. The best of 'Made in Italy' production from the main manufacturing districts and international excellences presented new products, collection previews and launched new jewellery trends. From unbranded production to high-end jewellery brands; from precious stones to the latest innovative solutions; from packaging and visual merchandising to the most advanced technological solutions and machinery for the Industry: the entire supply chain was present together with buyers, journalists and opinion leaders.

HOW WAS THE RESPONSE THIS YEAR

It was a very positive response, and a great platform to connect, network and discover more for the upcoming seasons.

WHAT ARE THE RECENT TRENDS YOU OBSERVED IN THIS SHOW

The Italian goldsmiths are known for their unique and artful approach to handcrafting masterpieces by combining classic style with contemporary design. Did you know; that two-thirds of all the gold jewellery produced in Europe comes from Italy, and Vicenza is the world capital of gold jewellery making.

Trends that Caught My Eye!

Italian Stretch Chains

Flexible Flex'it bracelet by FOPE crafted in 18kt gold and Made in Italy. These bracelets don't need clasps can be easily rolled onto wrists. FOPE has applied this patented system to rings, necklaces and earrings to create beautiful, elegant and comfortable jewellery with a unique contemporary twist.



Multi-wear Jewellery/ Transformable Jewels

Characterised by Italian excellence, Serafino_Consoli_Jewellery has created a collection of extraordinary pieces of jewellery with an incredible versatility, as they can adapt from the minimum to the maximum size; as far as twenty sizes in 18k gold with a simple movement. It took more than 10 years of research, analysis and testing in order to achieve the perfect result.



Diamond Jewellery

Flower power! It's my delight to share one of the most exclusive necklace crafted in the finest quality of baguette diamonds by @schreinerfinejewellery seen @vicenzaoro Isn't it a royal treat!



Titanium Jewellery from China

Conch Pearls set in Pink and Blue Titanium Brooch by the talented mother-daughter team at @joywithjewelery from China. Titanium's changing colour results from a process called "oxidation." When titanium reacts with oxygen, it forms a thin layer on its surface that changes the way light reflects off its surface. This layer; is known as an oxide film and can be blue, purple or golden, depending on how thick it gets!



Pausing to Peep with Prernaa Makhariaa



WHAT MAKES VICENZA A RO SHOW SPECIAL

This show is the one massive point where design, concepts and trends are picked up for the global market. The way Italians conceptualise, design and manufacture their jewellery is most unique and is mostly a catalogue for trends for the world to see. The idea of storytelling of jewellery making is immensely unique and makes one come back to Vicenza, year after year.

WHAT ARE THE RECENT TRENDS YOU OBSERVED IN THIS SHOW

Antique jewellery and watches were very popular at the show. Moreover, the modular jewellery which has been trending still continues. The rise in play with textures on metals is one different trend that I saw and liked. Brooches have also picked up in demand and unisex jewellery also continues to capture the trends.

HOW WAS THE RESPONSE THIS YEAR

This was the most successful show for Vicenza. The bar-coding system made the entry n exit very smooth and this bar-coding system can be implemented at different exhibitions to save time and avoid queuing at shows. The booth and displays have also been iconic and beautifully done for accentuating the products on display.

Trends that Caught My Eye!



Shark Brooch

Alessio Boschi's eponymous luxury jewellery brand uses some rare gemstones in all of it's one of a kind creations. Here's a gorgeous shark crafted with 18kt palladio and rose gold. It's set with Paraiba tourmalines, aquamarines, Keshi pearls and rubies. The rose belly opens and the matching earrings can fit. The craftsmanship is so fine and delicate that you almost feel it's as good as real.

Schreiner

Headquartered in Germany, SCHREINER focus on creating exquisite pieces with only the best-in-class gemstones. 2500 cts sapphire & 35 cts tourmalines along with 25 cts diamonds which come together to create this one-of-a-kind floral necklace set. The necklace is inspired by the fluidity of nature and its ever-changing movement. The Haute Joaillerie house has worked intensively to reflect the fluidity in their creation. It's complimented with earrings to complete this artistic creation.



Swan Brooch

Swans symbolize love, devotion, romance, inner beauty, grace, and elegance. Presenting this exquisite Swan brooch - bedazzling in blue, champagne and white diamonds. The diamonds are pavé and the natural stones become the cornerstone of storytelling. Palmiero Jewellery Design shows top quality and creativity, authentically haute de gamme and authentically Made in Italy.

Cartier Watch

Cartier watches have been a part of a rich history of vintage timepieces - a legacy that will last a lifetime. Here's an antique @cartier pocket watch that can be worn as a ring. 1930 stamped and crafted in 18kt gold with black onyx ring. The dial has B.TE SGDG pattern printed which signifies - brevete sgdg



TUCSON SHOW

The Gigantic Gemstone Carnival



The city of Tucson is host to more than 40 shows that are organised in a span of one month starting from 15th of January to 15th February every year. These shows vary from 5-day exhibitions to about 15-day affair. The shows at Tucson exhibit a plethora of gemstones, beads, gemstone rough, cut and polished stones, etc and enjoys visitors and buyers from across the globe. A lot of Indians also exhibit in these shows and enjoy this opportunity to interact with the entire fraternity. Buyers from across the world visit Tucson during this one month for extensive business. This is a trendsetter show for coloured stones and is an amazing platform to do business, be it selling or buying. Most of the shows are organised in tents and these shows are reservoirs of knowledge for people willing to learn about gemstones. All varieties of coloured stones in all possible shapes and sizes are available at Tucson shows.

Huge demand for Indian goods...

Based out of New York, I have been in the business of coloured stones for over 25 years now. My company has been exhibiting in Gem & Jewellery Exchange Show(GJX) in Tucson for 20 years now. This show is iconic for its diversity in variety. There are Sri Lankan Pavilion, Indian Pavilion, etc which showcase quality merchandise of coloured stones for buyers in commercial as well as high-end pricing. Social media marketing, influencers, digitalisation, etc are factors that promote the show and spread awareness about the expansive range of merchandise at the show, hence leading to good business. People are now beginning to move away from diamonds and are willing to experiment with coloured stones in their engagement rings and wedding bands. The supply of coloured stones, which was hit during Covid, has also resumed

Anil Vijayvargiya
Green Rock Inc
Exhibitor, Tucson Show

normalcy and is great to see good business happening. Lately, I have seen that the style preferences have changed and everything is popular. There is no one stone or colour that is most popular. The diversity in the market is being appreciated and demanded by different segments.

One of the key highlights that I observed was that the buyers visiting the show from different parts of the world were extremely keen to buy their products from Indians in this edition of the show. This surge in preference and demand is a vital point for Indian-origin manufacturers and suppliers to ensure smooth upkeep of this rising demand while maintaining the quality. Upscaling the skillset of labour, regularisation of work management along with stringent procedural follow up will lead to improved business opportunities for all.

**AYUSHI
KASARANENI**

**Vasundhara Diamond Roof
Hyderabad**



Creating
Artful Stories
through Jewellery



A WARM CONVERSATION
ON A CHILLY WINTER
MORNING WITH A LADY IN
LEADERSHIP ROLE...
AYUSHI KASARANENI
SPEAKS ABOUT THE
JOURNEY AND SOME
OBSERVATIONS.

TELL US ABOUT YOUR COMPANY AND WHAT IS IT KNOWN FOR?

Vasundhara Diamond Roof was founded by my mother, Vasundhara Kasaraneni, 25 years ago. She has always been a visionary and is credited as the first woman in south of India to have started a jewellery business. The ode to our growth and success is attributed to so many women in our journey of over two decades... their love for our creations and their unfaltering faith on our quality make Vasundhara an iconic name in



jewellery industry. And, to commemorate this faith and love, we relentlessly support women welfare initiatives and other programs. Moreover, at Vasundhara, we not only create jewels and ornaments, but we believe in bringing forth the story and passion behind every piece. From inspiration to completion, stories are what make jewellery more relevant.

HOW IMPORTANT DO YOU THINK COLOURED STONES ARE IN JEWELLERY INDUSTRY?

When we started 25 years ago, the demand for coloured stones in south India wasn't very big. Gold and diamond presided the markets. Interestingly, my



mother had an eye for art and really liked to incorporate beautiful coloured stones in jewellery. She has always been a collector and connoisseur of gemstones and has believed that they play a pivotal role in jewellery and add colour, dimension and passion to any piece of jewellery.

IS THERE ANY SPECIFIC STONE YOU LIKE TO WORK WITH? WHY?

We love all gemstones because each stone has its unique beauty and it is difficult to pick a favourite. But we are constantly creating new ornaments and that requires using different stones in various shapes and sizes. In more ways than one, we do use emeralds a little more than others because they are not only demanded by our clients but also because of their availability at different prices.

HOW DO YOU FORESEE THE MARKET OF COLOURED STONES IN TIMES AHEAD?

There is increasing awareness of coloured gemstones amongst Indians and they are constantly exploring and buying gemstone jewellery. Like I said earlier, gemstones add a newer facet to jewellery and that's why they are tending and popular. But I do observe people questioning or pausing to assess the resale value of coloured stones as compared to gold or any precious metal.

WOMEN ARE ALTERING BUSINESS LANDSCAPE BY PLAYING LEADERSHIP

ROLES. IN YOUR EXPERIENCE, COMMENT ON THE SCENARIO AND HOW YOU OVERCOME THE CHALLENGES?

I see more and more women step-in at leading roles in various walks of life and in jewellery too, there has been a sharp increase in last 5-7 years. Women bring with them their creative acumen and aesthetic prowess and these are most essential tools in the jewellery line. When my mother started her journey twenty-five years ago, it was very difficult to establish oneself but she has come this far whilst creating a name for herself and the work she does. By closely watching my mother in all these years, I have learnt the value of trust, one's name and its ascribed responsibility and that is why I approach every obstacle with dignity, grace and fearlessness.

HOW HAS YOUR ASSOCIATION BEEN WITH JAIPUR? TELL US ABOUT IT.

Jaipur has always been one of our most favourite places to visit in India. We love the art, architecture, hospitality and warmth of Jaipur. Every work trip has a sprinkle of fun too for us where we take time out to explore nice properties, explore arts and are tremendously inspired by these. Gemstones and jewellery carry a history and story with them and Jaipur is a place that captures it all and helps in assimilating it in our designs and craftsmanship.

A Legacy of 130 Years and Counting...



ANKUR ANAND

Director

Harsahaimal Shiamlall Jewellers (HSJ)
Uttar Pradesh

Tell us about your company and what is it known for?



Harsahaimal Shiamlall Jewellers Lko Pvt Ltd (HSJ) as it is known was founded in 1893. With a legacy of nearly 130 years and 5 generations, the company has stores in Lucknow and Bareilly in Uttar Pradesh. Recognised for the boutique stores, HSJ has earned the reputation of trust and quality since its inception. Our designs are unique and loved by our patrons. We sell couture jewellery and the mainstay is the use of a lot of fine quality gemstones in jewellery.



How do you foresee the market of coloured stones in times ahead?

As people earn and travel, their exposure to coloured gemstones in some form or the other increases. Gemstones will hold a lot of aspirational value for them. I always see a bright future.

How important do you think coloured stones are in the jewellery industry?

Coloured stones for jewellery and astrology are very important and they are an integral part of any good jewellery business. No design is complete without the use of good gemstones.

Is there any specific stone you work more with? Why?

We work the most with emeralds as they are beautiful and timeless. Apart from that, we work with a wide variety of gemstones. They are used in different ways in all kinds of jewellery.



How has your association been with Jaipur? Tell us about it.

My association with Jaipur has been very old. The gemstones jewellery and Polki jewellery forms a very large part of our portfolio. I always look forward to the hospitality and warmth extended to us in JJS. We get to see a lot of manufacturers with an international and progressive vision. I really look forward to doing good business in Jaipur.



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PADPRADSCHA SAPPHIRE
Biharilal Holaram



RUBY
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ZAMBIAN EMERALD
BEADS NECKLACE
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EMERALD DIAMOND EARRINGS
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INDO WEAR EMERALD NECKLACE
Shree Jee Jewels



TANZANITE
Lunawat Gems



ROSE CUT
DIAMOND EARRINGS
Royal Gems & Jewels



TSAVORITE
Lunawat Gems

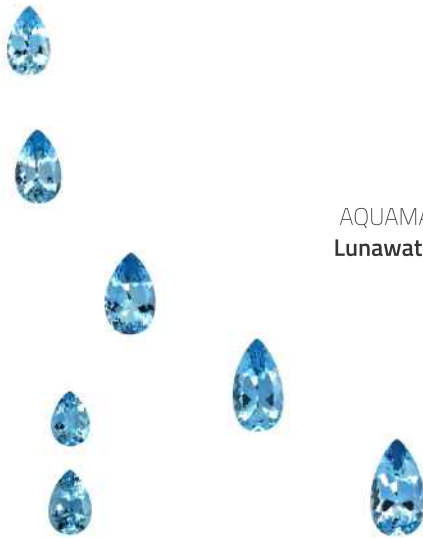


COLOMBIAN EMERALDS
C.I. Bogota Emerald Mart S.A.S.

CUSTOM CUT RUBY AND
DIAMOND BANGLE
Birdhichand Ghanshyamdas



DIAMOND AND
EMERALD STATEMENT CHOKER
Birdhichand Ghanshyamdas



AQUAMARINE
Lunawat Gems



PINK SAPPHIRE RING
Gem Plaza



EMERALD ROUGH
Rakesh Kumar Vijay



ROUGH COLOMBIAN EMERALD
C.I. Bogota Emerald Mart S.A.S.



POLKI DIAMOND EMERALD NECKLACE
**Valentine Jewellery
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MORGANITE
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TOURMALINE SMOOTH BEADS
National Facets



MUGHAL DARBAR
Jaipur Ratna

COLOMBIAN EMERALDS
C.I. Bogota Emerald Mart S.A.S.



TOURMALINE CARVING BEADS
National Facets



RUBYLITE
Lunawat Gems



OPAL
RMC Gems



LONDON BLUE TOPAZ
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RMC Gems



INDIGOLITE
RMC Gems



RUBYLITE CUT
RGS Creation

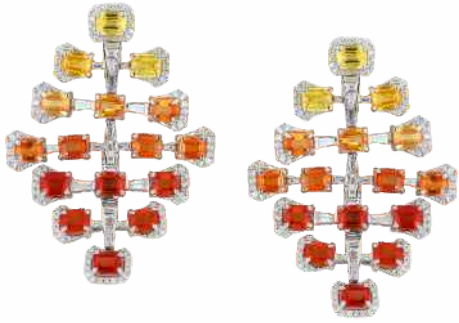
RUBYLITE
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COLOMBIAN EMERALDS
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AURA ORANGE EARRINGS
Savio Jewellery



DIAMOND NECKLACE
Valentine Jewellery
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MULTI TOURMALINE
RGS Creation



EMERALD POLKI JADAU SET
Tatiwalas Gehna



SUKANYA
Jaipur Ratna



EMERALD ROUGH
Rakesh Kumar Vijay



POLKI BANGLE
Achal Jewels

SPESSARTITE
Precitone Co. Ltd.



EMERALD POLKI JADAU EARRINGS
Tatiwalas Gehna



SPECIMEN OF COLOMBIAN EMERALD
C.I. Bogota Emerald Mart S.A.S.



IOLITE
Meco Gems Impex



EMERALD
Earth Creation Gems



SET OF EMERALD CARVINGS
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VIBRANT HUE RING
Shree Jee Jewels



YELLOW DIAMOND EARRINGS WITH
MOTHER OF PEARL AND DIAMONDS
Gem Plaza

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COLOMBIAN EMERALDS
C.I. Bogota Emerald Mart S.A.S.



Continuing the Legacy of Intricacy

Arun Kumar Kothari talks about Kundan-Polki & their popularity

Please tell us about yourself and your company.

I am Arun Kumar Kothari, Director, Achal Jewels Pvt. Ltd. We started the company in 1985 with manufacturing of colour stones. In due course of time, we entered the fine jewellery market with expertise in both unit and diamond jewellery.

What are the recent trends in uncut Polki?

The recent trends seem to be traditionally inspired designs with intricate detailing and use of lavish colour stones and precious metals. This distinct style of jewellery is often seen as being more robust and visually interesting.

How relevant do you think traditional jewellery is in today's modern time?

Traditional jewellery is definitely still relevant in today's modern time as it adds a touch of class and elegance to any outfit and shows one's royal personal style.

Tell us about your latest collection.

Our latest collection is all about the mix of traditional and modern look with colour stones and Polki.

Kundan-Polki is gaining a lot of momentum globally. Your views...

The Popularity of Kundan-Polki jewellery has a lot to do with its royal heritage and its intricate design. Additionally, this jewellery is often made with natural materials which make it environmental friendly.





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...in continuation from previous issue

MY EMERALD STORY

Dr Rajnikant Shah

| PART 4 |



Dr. Rajnikant Shah is a one man army. He is an amalgamation of a doctor, a jeweller, a devotee, a philanthropist, but most importantly an expanding visionary who believes that the worst kind of poverty is the poverty of vision. Dr. Shah shares his life experiences and lessons learnt at various junctures in his carrier across continents. Gem World brings to you his life stories penned by him in a four-part series. This is the part 4 of his experiences.

Calibrated Goods

Local traders in New York wanted emerald-cut to standard sizes such as round, oval, pears, marquise, etc. With calibration, stones lose weight which workers were not accustomed to. It was a hard nut to crack in Jaipur, so I devised a different plan. Purchase the cut goods, so that the prices are fixed. Then, get these stones re-cut as per size and keep whole lot price same so there is no loss. Add extra labour and commission charge. Now calibrated goods are available and readily sellable at a better price, so one can make

more profit. I used to purchase a dozen of Vernier callipers and give them to local craftsmen to measure and cut the stones as per sizes. It took few years to get this done, but ultimately succeeded. Commercial goods were then easily available in calibrated sizes. Better quality was still under reserve but slowly traders got accustomed to cutting in calibrated sizes. In USA, jewellery is manufactured using standard size cut stones due to the high labour cost. Machines make the job cheaper. In 1976, once I migrated to New York, I insisted on traders and workers to cut stones as per size. This

also helped us to establish ourselves in New York market, as we were in a position to supply calibrated goods which was the demand of the time. This helped Jaipur's market to compete with the rest of the world.



Couple of other traders also tried to get the goods calibrated.

There is yet another story about drilling the beads. Earlier it was done from both sides, half the way and hence it was never a straight hole. This gave a lot of headaches while stringing as the holes were not proportionate. They needed special machines to drill a proportionate hole. Hong Kong & Bangkok were doing drilling with machines and hence Indian market had a hard time to sell even though they were cheap. Even today, some workers use hand drills.

Treatment of Stones

Treatment of stones was a major issue in those days and it took a legal turn as well. Even plain oil, used in Joban was also considered as treatment (traders now have started declaring). Opticon was another material which was used extensively. Even the raw material was treated with Opticon. In Brazil, they used regular colour to make stone

look green. We used to test with alcohol to confirm colouring. I remember an incident when one packet of cut and polished stones was sold. After a few days when it arrived back, the stones had been treated with Joban oil which had dried up and the stones did not look like they originally were. Customer started doubting the integrity of the supplier even. Such were the problems of treatment!

Jewellers Association – Jaipur and Gem & Jewellery Export Promotion Council

Jaipur had an active association for jewellers and it looked after the interest of jewellers very well. Their unity helped Jaipur to grow in gemstone trading. Rashmi Bhai Durlabh Ji was active and with the help of colour stone and diamond traders, in association with the government, a council was formed that to-date,

is looking after the interest of traders from all over India, including import and export.

Internationalization of Trade

In the late 50's, there were few traders who had travelled abroad to purchase raw material. Magan Dave was the first Indian to start his business in 1940-1950. In late 50's, 4-5 Indian dealers settled in New York – P.P. Kishore, Amrat Soni, Anil Dholakia, and Rasik Shah. Then in 1964-65, Surana and Rawat took part in World's Fair. Even a couple of diamond dealers from Mumbai visited New York in early 60's and then started settling down by late 60's. Indian traders in New



York had their supplies from their head offices in Jaipur. Similarly, diamond traders had their supplies from their head offices in Mumbai. This helped the traders to settle down easily. Later, many Indians opened their offices and after 1970 there was tremendous growth of Indian diamond and colour stone merchants that gradually spread across the USA. By late 80's, there were over 250 offices. After that, doors were opened and many traders started settling in New

York as well as in other cities in the USA.

As competition increased, payment system also got re-adjusted. From immediate cash, it went to 30 days in late 70's and then 60 days in the early 80's. Slowly it became 90 days by late 80's and ultimately it increased to 120 to 180 days by 90's. There was resistance but in competition everything got forgotten and lost.

At present there are more than 500 families settled in New York in diamond and colour stone trade, many of them now are involved in jewellery market. There is a lot of cross over and many colour stone people are getting involved in diamond trading and in jewellery manufacturing. Now

Indian community is spread all over the world. Socially also, we kept all Indian families woven together and Diwali get-togethers are of prominence. They are active and take part in many trade related and other social and charitable activities. IDCA, a Jain Temple, Museum of Gem and Jewellery, etc. are some of them.

Indian Diamond and Colour stone Association (IDCA)

In early 80's, there were 2 groups of Indian traders – diamond traders and colour stone traders. Diamond group was mainly from Mumbai and mostly consisted of Gujarati

community, while colour stone group was from Jaipur. When I was active in business, I invited a few people to join and form an association. That association today is Indian Diamond & Colour stone Association (IDCA). Its growth helped to keep both the communities together and make Indian traders known all over USA. IDCA does multiple activities, especially for Tuscan & Las Vegas show. It has its own office, staff, and publications.

Note: Gem World is glad to publish the experiences of Dr Rajnikant Shah in his own emotions and words. We hope you enjoyed this 4-part journey!



Miners at Oscar Birthday Party



Buyers from India



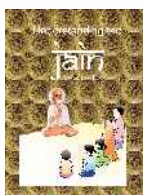
Brazil Group



drshahstamps.com



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youtu.be/6IADYqM9bWw



ashtapadmahatirth.com



mgjajipur.com



drshahtemples.com

Opal

Opal is known for its brilliant display of flashing spectral or rainbow colours on its surface, the phenomenon known as 'play-of-colour'. Presence or absence of this unique optical effect classifies opal into two broad types – precious opal (with play-of-colour) and common opal (without play-of-colour).



Precious opal displays colour flashes on the surface due to its unique structure which is composed of three-dimensional stacking of sub-microscopic silica spheres; this resembles a box filled with ping-pong balls. When light travels through opal or between these stacked spheres, the light waves diffract or bend or interfere with each other to produce spectral or rainbow colours.

The size of spheres along with their packing or arrangement affects the visibility of specific colours – smaller sizes produce dominantly blue and green colours, while larger sizes produce yellow, orange and red. Large sizes are relatively uncommon and hence opals displaying orange and red colour flashes are rarer than opals displaying blue and green flashes.

Precious opals are further classified according to their

body colour, transparency and presence of mother rock.



White Opal

Translucent to opaque opal with light body colour



Black Opal

Translucent to opaque opal with dark body colour



Crystal Opal

Transparent to Semi-transparent opal with play-of-colour



Boulder Opal

Translucent to opaque opal (with play-of-colour) associated with its mother rock



Matrix opal

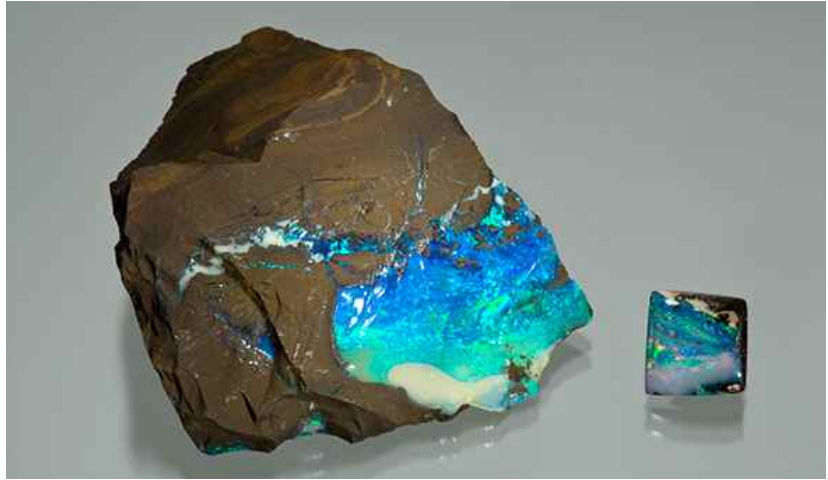
Opal present is infilling within the pores of mother rock



Fire Opal

This yellow-orange to red coloured variety of opal is the most popular type of opal which is often found without play-of-colour, although, fire opal may also display play-of-colour. It may range from transparent to translucent

Common Opal Lacks play-of-colour and is found in a range of colours from white, yellow, brown, green, blue, purple, pink etc.; majority of these colours are caused by presence of coloured minerals such as chrysocolla, fluorite, iron oxide, and others. These opals may be patterned (patchy/banded) or un-patterned



QUALITY FACTORS

In addition to the opal type i.e., precious or common opal, quality of opal is judged on the following factors:

Ratio and Quality of Play-of-colour: It includes the area of opal displaying play-of-colour i.e., percentage of play-of-colour compared to the background colour, its intensity, dominant hue or colour and pattern. Orange to red hue is rarer as compared to blues and greens. Pattern refers to the arrangement of play-of-colour, where colour flashes are seen as pinfire or pinpoint (small patches), mosaic (broad, angular), flame (streak) and peacock (mainly blue-green).

Transparency: Better the transparency, better the quality.

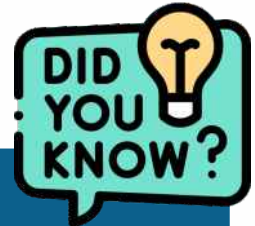
Clarity: It refers to presence or absence of matrix (mother rock), crazing, pits, cavities, etc.

Cut: It includes overall cut and symmetry of opal.

OPAL CARE

Opals, because of their water content, can craze or fracture when exposed to strong light or heat, such as that produced in display windows, therefore, it is better to avoid displaying opals in show windows, especially under direct light source. Sudden change in

temperature may also cause opals to craze or develop cracks. Safest way to clean opals is with lukewarm water using a mild soap; harsh detergents should be avoided. Avoid storing opals with other gemstones or jewellery to prevent scratching.



Coober Pedy, a small town in Australia, is known to be home to an estimated **70%** of world's Opal.



Gem World magazine would like to thank Dr Rajnikant Shah for sharing valuable insights and images of Opal.

OPAL

ROUGH + BOULDER OPAL



It is hydrous silicate - 5 to 10% water content is common. I am only Gem Mineral which is amorphous – soft and fragile. No crystal system, no cleavage, no optical directional properties.

CUT



Precious Opal is Milky White or Black with brilliant interplay of colors – commonly red, blue, and yellow. Fire Opal is reddish orange.

Refractive Index – 1.39-1.47
 Hardness – 5.0 – 6.0
 Specific Gravity – 1.95-2.20
 Crystal System – Amorphous
 Luster – Vitreous
 Transparency – Transparent-Opaque
 Diffracts light from various angles.
 Class – Mineraloid

JEWELLERY



Sources – Originally it was East of Czechoslovakia – Hungarian Opal; South Australia & Queensland; Indonesia, Brazil, Mexico, Russia, USA, and Ethiopia

SPECIAL, METER MARK, SOUVENIR SHEET



Edelsteine



Look at my magnificent inner fire – that is what you look like when you remember your spirit.

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ORIGIN & DETERMINATION OF GEMSTONES: Perspective and Challenges

Colombian vs. Afghanistan (Panjshir) Emeralds

GAGAN CHOUDHARY, FGA

INTRODUCTION

Gemstones like rubies, sapphires and emeralds have always been associated with specific countries and mining locations by virtue of their beauty and quality, and hence the value. However, not only the visual appearance of a gemstone is associated with a prominent source, but also its history and romanticism. Terms such as Kashmir for sapphires, Myanmar (Burma) for rubies or Colombia for emeralds having historical and cultural context, which combining with striking beauty, may contribute significantly to the value of gemstone. Origin of a gemstone can be understood in terms of geological environment and on geographical location; however, for the end consumer only latter is relevant.

Due to the significant value addition, origin determination of gemstones has gained a lot of popularity in past two decades, and this has led to systematic classification and characterisation of gem samples by most of the reputed gemmological laboratories, referred to as the science of origin determination.

Origin determination of a gemstone is based on many factors and their understanding in order to get reliable and consistent results, some of which are as follows:

Geological setting of the locations from where stone is originated: This includes: (i) nature of host rock, (ii) interaction between the host rock and the surrounding rocks, resulting in exchange of chemicals during the formation, (iii) pressure-temperature conditions and (iv) chemical environment at the time of formation.



Figure 1. Rough samples of emeralds from Afghanistan (left) and Colombia (right) displaying similar colours and transparency. In some cases, associated black mineral (shale) on the surface helps to identify Colombian origin.

Gemmological-mineralogical Characterization of the Gemstone

Most important criteria used for characterization of gemstones are:

- Inclusion features, such as type and nature of other minerals present, cavity filling

- (phase-inclusions), growth pattern, etc.
 - Optical properties like refractive index, birefringence, luminescence reactions, etc.
 - Spectral fingerprinting such as, absorption patterns (UV-Vis-NIR) or infra-red features
 - Chemical fingerprinting including major, minor and trace elements
- The gemmological-mineralogical properties are governed, directly or indirectly, by the geological setting under which a gemstone is formed.

Therefore, to derive reliable and consistent origin determination, it becomes necessary to have access to authentic reference samples which are carefully and minutely documented for their gemmological-mineralogical properties. An unknown sample is then compared with this documented reference sample.



Figure 2. Faceted samples of Colombian emerald (up) and Afghanistan (Panjshir) emerald (down) appear similar in terms of colour, transparency, and overall inclusion scene.

THE CHALLENGES

Few gemstones grow in similar geological setting and as a result their gemmological properties also tend to overlap in terms of

inclusion features, optical characteristics and chemical fingerprint (especially major and minor). In such cases, separation between two locations requires very minute detailing and analyses, which may not be performed in non-equipped or ill-equipped laboratory.

A CASE STUDY: COLOMBIAN VS AFGHANISTAN (PANJSHIR)

EMERALDS

Colombia and Afghanistan (Panjshir) are probably the most noted deposits for emerald, producing vibrant, bright, and rich-green colours, making them a desirable source. Although, visual appearances of emeralds originating from both these locations are similar, desirability of Colombian emeralds is still high compared to those from Afghanistan (Panjshir). However, due to their similar geological setting i.e., their growth environment, their gemmological properties including inclusion features, optical features and chemical fingerprinting tend to overlap, making the separation much challenging.

Geological Environment

Both Colombian and Afghanistan (Panjshir) emerald deposits were formed due to tectonic-metamorphic activities involving hydrothermal fluids. Although, their host rocks may be different but the nature and type of fluids responsible for the growth remain the same. As a result, their internal features and other characteristics are similar, if not same.

Inclusion Features

Since both deposits are formed from mineral rich hydrothermal fluids, emeralds originate from Colombia and Afghanistan (Panjshir) contain numerous fluid inclusions trapped in cavities. These cavities may take a range of shapes and patterns. One classic pattern of such filled cavities is three or multi-phase inclusion, often with jagged outlines. This is commonly referred as 'jagged 3-phase inclusion', where a cavity contains multiple phases of matter, namely, liquid, solid and gas.

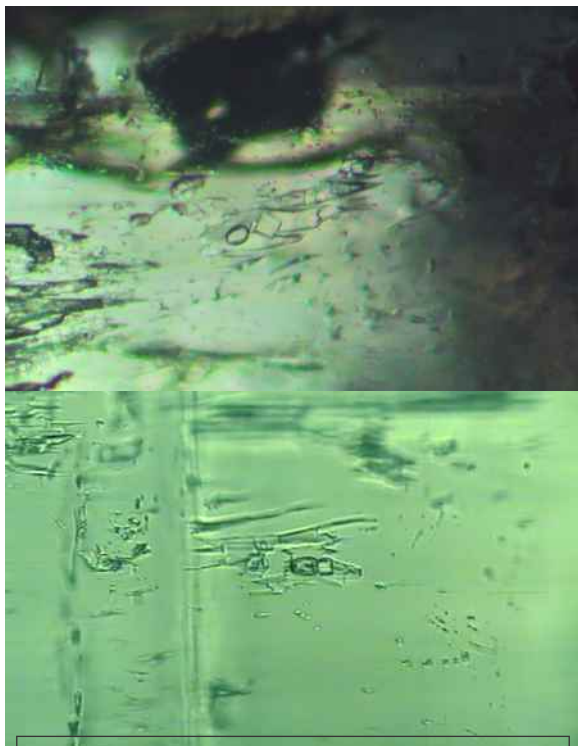


Figure 3. Overall inclusion scene in Colombian emerald (up) and Afghanistan (Panjshir) emerald (down) are very similar, characterized by fluid-filled cavities, commonly referred as phase inclusions with jagged edges. Such similar inclusion scene makes the separation between emeralds originating from these two origins quite challenging without trace-element chemistry.

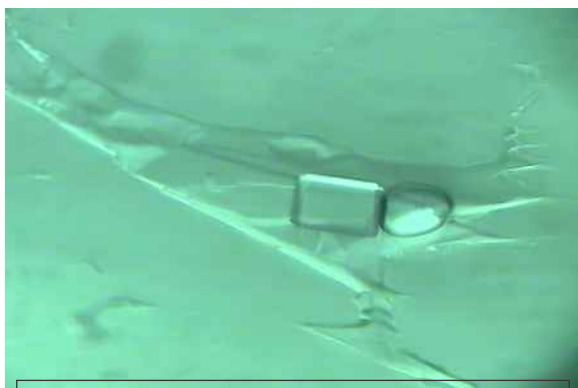


Figure 4. A classic jagged 3- phase inclusion in Colombian emerald displaying fluid-filled cavity, trapped gas – appear as bubble, and a crystal (solid) – three phases of matter. Such features are found in Afghanistan (Panjshir) emerald too. In many cases, these fluid-filled cavities contain multiple crystals.

Because of the similar inclusion scene, separation of emeralds from these two deposits

becomes challenging just on the basis of inclusions.

Optical Properties

There is a close overlap in refractive index (RI) and birefringence of emeralds originating from these deposits. For example, RI of Colombian emeralds ranges from 1.565 to 1.580 while those from Afghanistan ranges from 1.575-1.590.

Chemical Fingerprinting

In most of the gemmological laboratories, chemical fingerprinting is commonly performed using Energy Dispersive X-Ray Fluorescence (EDXRF) spectrometer, however, considering the limitations of EDXRF all major laboratories including IIGJ-Research & Laboratories Centre have now started using more advanced, sophisticated and sensitive technique for chemical fingerprinting, Laser Ablation-In Coupled Plasma Mass Spectrometer (LA-ICPMS). This instrument has the capability of detecting the presence of trace elements up to parts per billion (ppb) levels, which become very useful in separation of Colombian and Afghanistan (Panjshir) emeralds.

Due to the overlap of chemical data, binary plots of selected trace elements are used at the IIGJ-Research & Laboratories Centre for separation of these two origins; this is a standard practice followed by all major gemmological laboratories too.

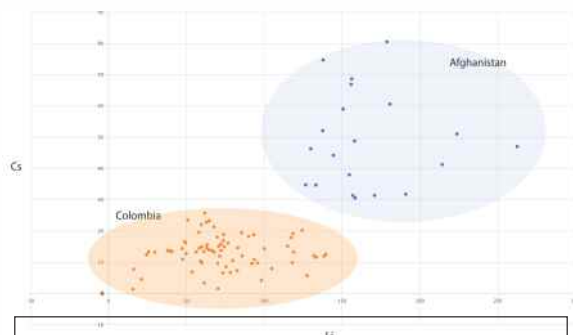


Figure 5. This binary plot of Cs vs. Li provides a useful separation of Colombian and Afghanistan (Panjshir) emeralds, even though the inclusions and other properties closely overlap with each other. Such plots are routinely used for origin determination at the IIGJ-Research & Laboratory Centre from the data collected on highly sensitive and advanced instrument, LA-ICPMS.

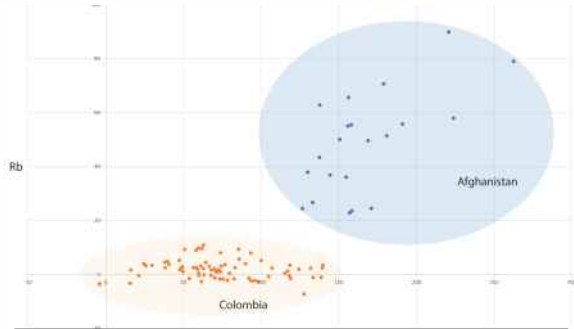


Figure 6. Binary plot of Rb vs. Li is another important and useful correlation of elements providing a clear separation of emeralds originating from Colombia and Afghanistan (Panjshir), as can be seen in the plot above. Colombian emeralds lie at the lower part of the plot, while Afghanistan (Panjshir) emeralds at the upper part.

CONCLUSION

The case study of Colombian and Afghanistan (Panjshir) emeralds illustrates the challenges of origin determination based only on microscopic observations and basic gemmological tools. Further, with the discovery

of new deposits worldwide, origin determination is becoming more challenging. However, authentic reference samples and above-mentioned analytical tools and procedures must be integrated for reliable and consistent deduction of origin, along with the classical microscopic observations.

ABOUT THE AUTHOR



Gagan Choudhary
FGA

Gagan Choudhary is the Director at IIGJ-Research & Laboratories Centre (Formerly, GJEPC-Gem Testing Laboratory, Jaipur). Choudhary has a Masters' Diploma in Gem Identification from Gem Testing Laboratory, Jaipur, India, a Diploma in Gemmology from Gem-A, UK and has completed the Scientific Gemmology Course from SSEF, Basel.

For more information, write at gtl@gjepcindia.com

Convocation Ceremony of Jewellery CAD Designers (1st Batch) Concluded

Gem & Jewellery Skill Council of India (GJSCI) in collaboration with Shrimad Rajchandra Skill Development Centre (SRSDC) inaugurated a Skill Training Centre in September, 2022 in Dharampur, a town in the Valsad district of Gujarat. With immense pride, GJSCI conducted the Convocation Ceremony of the 1st batch of students who successfully completed the course on Jewellery CAD Designer. The Convocation ceremony was held in Mumbai and the candidates had an opportunity

to visit Mumbai. A special visit program was planned for these candidates by GJSCI on 11th January, 2023. Candidates were given an opportunity to interact with their prospective employers through whom GJSCI facilitated placements through luck of draw. All 18 Candidates have been placed with the 11



donor companies present at the event. This overwhelming response received from industry partners has only concluded to prove that how successful this project has been and the support that GJSCI has received to drive this project.

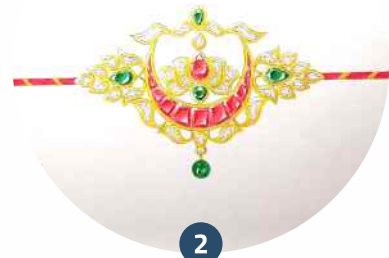
DESIGN SPEAK

Glance through the beautiful designs created by the students of Indian Institute of Gems and Jewellery Jaipur (IIGJ Jaipur).

Design Speak is a Gem World initiative to promote upcoming talent in the industry.



1



2



1

2

JATIN KUMAWAT

kumawatjatin41@gmail.com

1. Earrings & Pendant Set

Theme 1: Parrots

2. Bajuband

Theme 2: Parrots

KHUSHAL KATA

khushalkatta4@gmail.com

1. Nath & Maangteeka

Theme 1: Lotus

2. Bajuband

Theme 2: Peacock



MINAXI BAID

minaxibaid2019@gmail.com

Necklace Set

Theme: Ganesha



SALONI BHAWSAR

shinalibhawsar@gmail.com

1. Nath & Maangteeka

Theme 1: Maharashtrian

2. Vati

Theme 2: Maharashtrian

SAMRIDHI AGARWAL

samridhiagarwal591@gmail.com

Bajuband

Theme: Rajasthani



TANISHA GOYAL

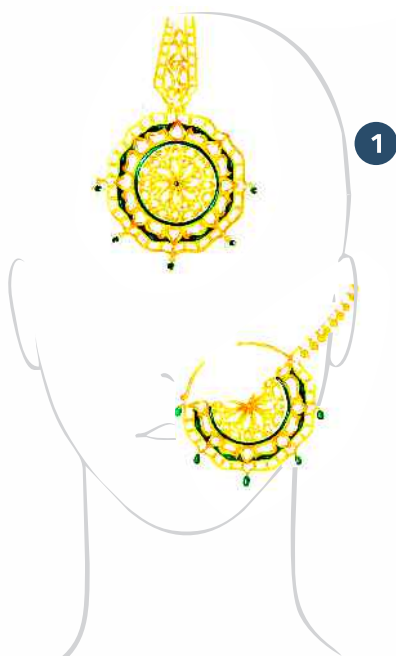
tanishagoyal760@gmail.com

1. Choker & Earrings

Theme 1: Mughals Celebrating Victory

2. Vanki

Theme 2: Peacock



YASHIKA SEERWANI

yaashikaa2702@gmail.com

1. Nath & Maangteeka

Theme 1: Rangoli

2. Bajuband

Theme 2: Maharashtrian



GJEPC

With Estimated ₹30k Cr Orders Booked IIJS SIGNATURE SHINES-OUT BRIGHTEST



IIJS Signature 2023, this year's first & largest jewellery trade show, has booked orders worth Rs. 30,000 crore, as per the initial estimates by The Gem & Jewellery Export Promotion Council (GJEPC). The 15th edition of IIJS Signature, the biggest-ever and first-ever 'Green Expo' saw several brilliantly designed gem & jewellery creations from diverse parts of the country over the course of five days. The entire show floor of IIJS Signature 2023 and IGJME 2023 was spread across six halls of the Bombay Exhibition Centre (NESCO), Goregaon, Mumbai, encompassing

65,000 sq.ft. IIJS Signature accommodated more than 1,300 exhibitors displaying in 2,400+ booths. IIJS Signature had 20,000 visitors from 10,000 domestic companies attending the show. GJEPC introduced a new section for lab-grown diamonds. IGJME had 90+ companies displaying across 115+ booths. There were more than 20000 Trade Visitors, of which 800 + were International Visitors from 60 countries, including the USA, Canada, UK, Hong Kong, Middle East, Europe, Bangladesh, Nepal, Russia, Thailand, and Egypt had visited the show.

The inauguration of IIJS Signature 2023 was graced by Anupriya Patel, Hon'ble Minister of State for Commerce and Industry (Chief Guest); Guests of Honour, Poonam Mahajan, Member of Parliament and MP Ahammed, Chairman, Malabar Gold & Diamonds; and R. Arulanandan, Director, Department of Commerce; Union Ministry of Commerce & Industry, Govt. of India along with Vipul Shah, Chairman, GJEPC; Shri Kirit Bhansali, Vice Chairman, GJEPC; Nirav Bhansali, Convener, National Exhibitions and Sabyasachi Ray, ED, GJEPC.



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JA Representatives Met Nirmala Sitharaman Seeking Interventions for Industry



A post-budget meeting was held on February 20, 2023, with the Union Finance and Corporate Affairs Minister, Nirmala Sitharaman.

On behalf of the Jewellers Association, President, DP Khandelwal and Honorary Secretary, Neeraj Lunawat participated in the meeting. In the meeting, the officers were instructed to send various suggestions to the Ministry and the following were sent to highlight major problems being faced by tradesmen along with their suggestive solutions.

The gist of these problems is:

- 1. Loan Disbursal Mechanism:** Loan approval and disbursal is a huge challenge faced by small enterprises.
- 2. Sensitivity to Sector:** When the loan application is filed, most of the banks refuse the application in the first instance giving reason of sensitivity of the business of this sector.
- 3. Activity Clearance:** For loan amount of more than 2 crore, the banks demand extensive activity clearances which is

very time consuming for any small enterprise and also goes against the current MSME rule/scheme.

4. Operations in Customs 24x7: Due to lack of sufficient staff, the operations of customs do not work 24x7 causing delay and piling of work.

5. Upgrade of Custom House: Insufficient infrastructure and other facilities for Customs

6. Duty on Rough Stones: Currently, the duty on rough gemstones in 0.50% which increases the value of raw materials

7. Duty on Precious Metal: Current rate of import duty inclusive of taxes amounts to 18.45 %, which results in blockage of exporters entire working capital, whereas the duty on precious metal should be 4%.

8. Non-availability of Precious Metal for Export Purpose: With implementation of IGCR rules there is shortage of availability of precious metal.



The members of Jewellers Association unfurled the National flag on 26th January at Janopyogi Bhawan Jaipur.

Gem Bourse to be Set up in Sitapura

H'ble Chief Minister of Rajasthan, Ashok Gehlot, in his budget address for the year 2023-24, proposed to allot 44,000 sq mtr land at three times rate of the current reserved price to set up the much awaited gem bourse in the city. Jaipur already enjoys an unparalleled status in India as well as the world for being a source hub of coloured stones. A well-equipped gem bourse will boost trade and also provide ease of business.



JA Office Bearers Meet Thai Smile Airlines Officials

The office bearers of the Jewellers Association (JA) met the officials of Thai Smile Airlines at the Johari Bazar office of the Association on January 20th, 2023. The jewellers from Jaipur frequently visit Bangkok for trade purposes. It was jointly decided between both parties to provide special discounts and other facilities to jewellers using the services of the Airline. It was also decided that

members of the Association will be allowed special discounts on extra-baggage and ticket pricing during Bangkok show.

Representing JA were President, DP Khandelwal and Joint Secretary, Raju Agarwal Mangodiwala and from Thai

Smile Airlines were India In-charge, SarvuthVongsonmuk, Indian Coordinator, ChadathornKlangmani, General Manager, Pradeep Chauhan and Sales Manager, Dinesh Pareek.





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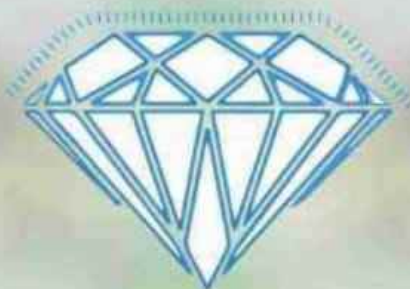


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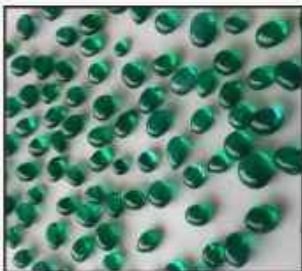
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IIGJ RESEARCH & LABORATORIES

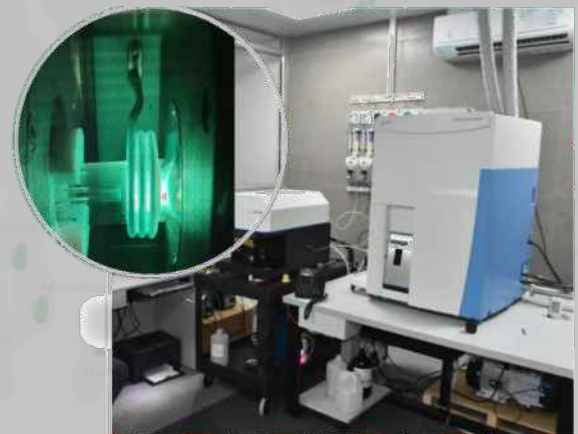
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आपका जनोपयोगी भवन



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