

GIA *insights*



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GIA IN MOTION & IMPACT

CONNECTING IDEAS, PEOPLE & OPPORTUNITIES IN GOLF



Industry perspectives • Events • Initiatives



GIA

Golf Industry Association



GIA

GOLF & TURF

SUMMIT INDIA 2026

13th Edition

GOLF & TURF SUMMIT INDIA 2026

Details of the upcoming summit are currently under development and will be announced soon. The event will continue GIA's focus on knowledge sharing, collaboration, and industry engagement, bringing together stakeholders from across the golf and turf ecosystem.



To be announced



Join us today



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FROM THE DESK OF DIRECTOR GENERAL

Respected Members, Partners, and the Golf Fraternity,

As we begin 2026 with this first edition of GIA Insights, I would like to thank our members, partners, and readers for their continued engagement with the Golf Industry Association. The start of a new year is always a good moment to reflect, reset, and look ahead with clarity and purpose.

The Indian golf industry continues to evolve, with growing conversations around sustainability, education, technology, and professional standards. Through GIA Insights, we aim to share meaningful perspectives, industry developments, and practical knowledge that supports this progress. Our focus remains on connecting people across the golf and turf ecosystem and encouraging informed dialogue that benefits the industry as a whole.

As we move forward in 2026, GIA will continue working towards strengthening collaboration, supporting learning opportunities, and creating platforms where ideas and experience can be shared openly. We appreciate your support and look forward to building another year of steady growth and positive impact together.

With sincere regards,
Dr. Himanshu Talwar
Director General



About Golf Industry Association (GIA)

It's a non-profit Industry Association registered under the Societies & Trust Act of India, formed by Golf Industry Groups.



Golf Industry Association

Core Activities

- Promote Golf in India through researched information dissemination to all levels of government and the general public. The GIA will specifically develop a golf related research document each year to present to all levels of government and to promote this information through media outlets.
- Educate and inform its members by the offering of an annual conference, targeted training opportunities and professional Industry interaction.
- Assist to build and promote the Indian Golf industry by supporting the activities and aims of the Indian Golf Union, the Government of India Tourism Authority and other golf related groups through the running of an annual Golf Expo.

Why you should join GIA

1. Membership is open to all Golf related establishments / organizations including golf clubs as well as to individuals involved in an official capacity in the Indian Golf Industry.
2. This gives you a universal platform to co-ordinate and to interact with serious players in the Golf industry.
3. As a member you are entitled to avail of the services rendered by the Association such as expert advices on construction of Golf Courses, redesigning of courses, turf management, course maintenance, irrigation, etc.

GIA Membership Categories & Fees

- International Membership - \$500 (All Inclusive, No Voting Rights)
- Corporate Membership - ₹25,000/- + GST (Full Member Rights)
- GIA Greens Section (Active Golf Superintendents) - ₹1,000/- + GST (No Voting Rights)

Who Can Become a Member?

- Corporate Membership is open to all golf-related companies, establishments, and organizations, including golf clubs.
- International Membership is open to companies or representatives based outside India.
- GIA Greens Section Membership is exclusive to active golf course superintendents.

Note: Membership is restricted to those who agree to abide by the GOLF INDUSTRY ASSOCIATION Constitution and Code of Ethics. A full copy is available on the GIA website.

Join GIA today and become part of a growing network dedicated to the advancement of the golf industry!

GIA Board Members

Name	Designation
Mr Anirudha Seolekar	Patron & Chairperson
Mr Aakash Ohri	Patron
Mr Devang Shah	Patron
Mr Brandon de Souza	Patron
Mr Anit Mehrotra	Director
Ms Deepali Shah Gandhi	Patron & Director
Mr. Dharendra Jha	Director
Mr. Rakesh Sharma	Director
Mr. Declan Mccollam	Director



dg@golfindustryassociation.in



www.golfindustryassociation.in

GIA Membership Benefits:

- Receive information about industry developments through GIA website and newsletter.
- Make contacts and network with other members – leaders in the industry.
- Receive invitations to zonal and national networking and educational programs featuring international and Indian experts.
- Receive a 15% discount on Exhibition space fees to the India Golf Expo – the industry’s most important annual event.
- Gain access to presentations, articles and support information on our “Member’s Only” area on the website.
- Receive one complimentary delegate pass to the India Golf Expo (For golf clubs who become corporate members) which includes the main conference, lunches, networking coffee breaks and hosted gala dinners.
- Post questions to members and get answers and insights to problems and queries through vast expertise of our members.
- Receive notices about international conferences and events.
- Vote at the annual India Golf Expo Awards.
- List your company on the GIA website & use the GIA Logo in email signatures & stationary

More Benefits

- Receive one complimentary delegate pass to the India Golf Expo (For golf clubs who become corporate members) which includes the main conference, lunches, networking coffee breaks and hosted gala dinners.
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GIA Account Details

- Account Name: Golf Industry Association
- Bank Name: Axis Bank Limited
- Branch: Bund garden, Pune
- Address of Branch: Ashoka Galaxy, Plot No 1, Galaxy Society, Dhole Patil Road, Bundgarden, Pune – 411001
- Account Type: Saving Account
- Account No: 911010034935000
- IFS Code: UTIB0000073
- Swift code for wire transfer bundgarden branch – AXISINBB073

Dr Himanshu Talwar

Director General

Golf Industry Association (GIA)

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CHAIRPERSON'S MESSAGE

Dear Members and Friends,

Indian golf is entering an exciting phase of growth and global relevance. This edition of GIA Insights reflects that progress capturing developments that connect our industry with international trends while strengthening the ecosystem at home.

From India's presence at the PGA Show to innovation led formats like TGL, the future of golf is clearly being shaped by collaboration, technology, and new thinking. Closer home, the DP World PGTI partnership marks an important step forward for professional golf in India.

My sincere thanks to IPI Irrigation Products International Private Limited for sponsoring all six editions of GIA Insights in 2026 and supporting continued knowledge sharing across the golf and turf community.

Thank you for being part of this collective journey.

Warm regards,

Anirudha (Anil) Seolekar

Chairperson



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Indian Contingent Attends the Prestigious PGA Show

The Indian contingent made a notable impression at the prestigious PGA Show, reinforcing India's growing presence in the global golf industry. Recognized as the world's largest and most influential golf trade event, the PGA Show serves as a key platform for industry leaders, professionals, brands, and innovators to connect, collaborate, and explore future opportunities in the sport.

India's participation reflected the country's steady progress in golf development, manufacturing, services, and professional management. Representatives from golf federations, course developers, equipment manufacturers, training academies, tourism bodies, and allied industries engaged with international stakeholders to exchange insights on best practices, emerging technologies, and sustainable growth models. The Indian contingent actively participated in networking sessions, product showcases, business meetings, and knowledge-driven seminars throughout the event.

A key highlight of India's presence was its focus on expanding international collaborations. Discussions revolved around golf infrastructure development, high-quality manufacturing, coaching methodologies, and sports tourism opportunities in India. The delegation also explored partnerships that could help strengthen grassroots programs, professional tours, and global exposure for Indian golf talent.

The PGA Show provided an invaluable opportunity for Indian representatives to understand global market trends, innovations in golf equipment and course management, and advancements in sports marketing. Exposure to cutting-edge solutions and global expertise is expected to positively influence the growth of the Indian golf ecosystem in the coming years.

India's participation at the PGA Show underlined its commitment to aligning with global standards while showcasing its potential as an emerging hub for golf-related business and development. The strong engagement and positive interactions at the event reaffirmed India's readiness to play a more significant role in the international golf community, paving the way for long-term collaborations and sustainable growth in the sport.



Image courtesy Aashish Vaishnava.

GIA Research Desk

Image courtesy Aashish Vaishnava.



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Balancing Play and Planet: The Environmental Responsibility of Modern Golf

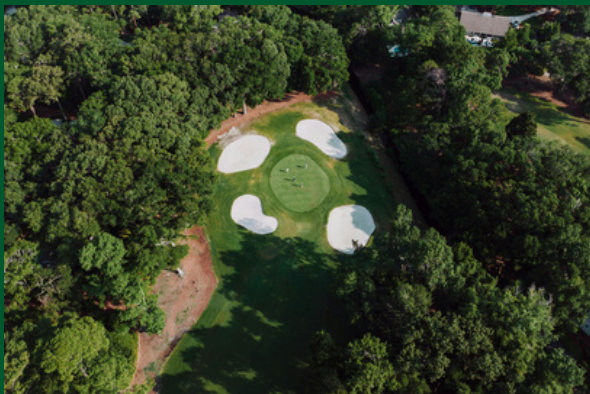
Golf has always been a game shaped by nature. The rhythm of play follows the contours of the land, the direction of the wind, and the changing seasons. Yet, as environmental pressures intensify across the world, the relationship between golf and the natural landscape is being re-examined. Today, the sport stands at a critical intersection—where the pursuit of play must align with a deeper responsibility toward the planet.



Modern golf courses occupy significant land areas and rely on natural resources such as water, soil, and vegetation. In regions facing climate variability, water stress, and biodiversity loss, traditional course management practices are no longer sufficient. This has prompted a shift in thinking across the golf industry, from viewing sustainability as an operational requirement to recognizing it as a core strategic responsibility.

Encouragingly, this transformation is already underway. Golf facilities are increasingly adopting smarter water management systems, including precision irrigation, recycled water use, and the introduction of native and drought-resistant turf varieties. These measures not only reduce environmental impact but also enhance long-term course resilience. Similarly, advances in turf science and data-driven maintenance practices are enabling courses to maintain high playing standards while significantly lowering chemical and energy inputs.

Beyond resource efficiency, golf courses have the potential to serve as valuable ecological assets. When designed and managed thoughtfully, they can function as green corridors that support local biodiversity, protect wetlands, and improve soil health. Many modern developments are now integrating habitat conservation plans, tree regeneration programmes, and pollinator-friendly landscapes into their course designs, demonstrating that environmental stewardship and sporting excellence can coexist.



The responsibility of modern golf also extends beyond course boundaries. Golf institutions, developers, and governing bodies play a critical role in setting environmental standards and encouraging best practices across the industry. Transparent reporting, sustainability certifications, and collaborative knowledge-sharing platforms help create a culture of accountability and continuous improvement. Importantly, golfers themselves are becoming more aware and supportive of environmentally responsible initiatives, reinforcing the demand for sustainable practices.

Balancing play and planet is not about compromising the integrity of the game; it is about safeguarding its future.

As climate challenges become more pronounced, the golf industry must continue to innovate, adapt, and lead by example. Sustainability, when embedded into planning and decision-making, strengthens the sport's social relevance and environmental credibility.

In conclusion, the future of golf depends on its ability to harmonize performance with responsibility. By embracing sustainable course management, protecting natural ecosystems, and fostering a shared commitment among stakeholders, modern golf can remain true to its roots while responding meaningfully to the demands of a changing world. The fairways of tomorrow must not only be playable—they must be resilient, responsible, and in balance with the planet that sustains them.

Rakesh Sharma

Managing Director at AG Horizon Pvt. Ltd.



Thank You to Our Sponsor

GIA sincerely thanks IPI Irrigation Products International Private Limited for supporting all six editions of GIA Insights in 2026 and contributing to industry knowledge sharing and collaboration across Indian golf.



YAMAHA

Revolutionizing Turf & Range Operations: Toro's Autonomous Breakthrough

Toro is excited to introduce two products at the 2025 Sports Field Management Association (SFMA) Conference and Exhibition – the Turf Pro™ 500/300 and Range Pro™ 100. These innovative products are designed to optimize turf maintenance by providing high-quality performance, consistent results, and significant labour and cost savings.

Turf Pro 500/300: Cutting-Edge Technology for Effortless Mowing

The Turf Pro is a state-of-the-art autonomous mower that can mow up to 18.5 acres with precision and efficiency. Designed with cutting performance at its core, the Turf Pro leverages advanced



technology to achieve consistently clean, well-maintained turf with minimal input from operators. With quiet operation and repeatable results, turf managers can rely on solid performance with the integration of this mower.

The Turf Pro is ideal for freeing up labour to focus on other areas, where specialized skills are needed. The mower's proficient capabilities ensure the turf is cared for without sacrificing quality.

Unlike many autonomous mowers, no boundary wires are required for setup. Instead, RTK technology produces ultra-precise navigation, enabling both models to mow consistent patterns day after day. Wireless connectivity enables anytime monitoring, control and customization of working perimeters, no-go zones, mowing patterns, cutting height, transport paths and more. When it's time to recharge, the Turf Pro automatically returns to its charging station.



Range Pro 100: Streamlining Ball Collection on the Driving Range

The Range Pro is an autonomous golf ball picking robot designed to streamline the labour-intensive task of collecting golf balls from a driving range. Capable of gathering up to 350 balls at a time and an impressive 19,500 balls in a 24-hour period, the Range Pro is a game-changer for driving ranges looking to save time and labour while maintaining a clean, tidy range for visitors. Its efficient design minimizes the need for manual labour, enabling

crews to focus on other critical tasks throughout the day. Utilizing the same RTK technology as the Turf Pro for wireless setup and control, these two units can even operate simultaneously, allowing turf managers to easily track and adjust their performance via computer or mobile device. These products are optimized to work seamlessly in conjunction with other Toro solutions, making them a perfect addition to any turf care operation.

"By introducing Turf Pro and Range Pro, Toro is continuing its commitment to providing ground crews with tools that enhance both efficiency and performance," said Noah Wahl, product manager at Toro. "With Turf Pro, turf managers can focus on the areas that require specialized attention. Both products deliver top performance while allowing for significant labor and cost savings, without compromising the standard of quality that facilities expect."

Discover more about the Turf Pro, Range Pro and other autonomous innovations, including the **GeoLink® Solutions™ Autonomous Fairway Mower**, at toro.com.

Scan the qr code given below to view the operation;



Cameron Russell
Director | Asia | Toro



Having returned from the PGA Show in Orlando last month and having experienced the record number of attendees ever for the PGA Show the future of golf and participation in the sport globally is very encouraging.

The participation rates in golf continue to grow in every sector of the business. This includes Green Grass Participation, Driving Ranges, Simulators and Mini Golf Complexes.

There has also been a huge spike in golfers building their own simulator studios in their homes.



Companies such as Foresight now have a home kit anyone can purchase for their homes called "Sim in a Box". This contains everything the golfer needs to build their own home simulator studios.

With more golf driving ranges coming on line in India and several new 18 hole championship golf courses now in the planning stage it is vital that the golf industry within India takes hold of the sport and secures the future of the game by producing a national golf academy that can assist in the development and education of futures stars of the game who can represent India across the globe on both the amateur and professional arenas.

With the PGTI, IGPL, WGTI and International Series now all very pro active in India, it is our duty as an industry to develop and produce future pathways for young golfers not only to join these tours but to also have the ability to play on the worlds top tours for both men and women.

The GIA is in place to assist clubs and golfing bodies where possible by helping them to connect within the industry globally to other industry professionals and businesses that can provide the required assistance clubs may be seeking.

We are all part of a game with a proven track record in tradition and integrity, the GIA wishes to see this continue as this great game experiences this continued growth in participation.

Declan McCollam
General Manager, Prestige Golfshire Club



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TGL (Tomorrow's Golf League): A New Way to Experience Golf

TGL, short for Tomorrow's Golf League, is a new and innovative golf league that is changing how the game is played and watched. It was founded by Tiger Woods and Rory McIlroy, in partnership with the PGA Tour, with the goal of making golf faster, more engaging, and more accessible to modern audiences.

Unlike traditional golf tournaments that are played over several days on outdoor courses, TGL is an indoor, team-based league. Matches are played in a specially built arena called the SoFi Center in Florida and follow a 3-on-3 team format. Each match lasts about two hours, making it easier for fans to watch live, especially in primetime.



Image courtesy Aashish Vaishnava.



Image courtesy Aashish Vaishnava.

What makes TGL unique is the way it combines technology with real golf skills. Long shots are hit from real turf into a massive simulator screen using advanced ball-tracking technology. When players get closer to the hole, they move onto a real short-game area and putting green, which can be adjusted and reshaped for different holes. This mix of virtual and real elements keeps the game exciting while staying true to the skills golfers use on the course.

The league features six teams, each made up of top professional golfers. Well-known players compete together, creating a strong sense of teamwork, strategy, and friendly rivalry. The format encourages quick decision-making and constant action, which keeps both players and fans fully engaged.

TGL is also designed with fans in mind. The indoor setting allows spectators to sit much closer to the action than at a traditional golf tournament. Players can be heard talking through microphones, and the atmosphere is more energetic and interactive. For viewers watching at home, the fast pace and clear visuals make the game easy to follow and enjoyable, even for those who are new to golf.

Overall, TGL represents a fresh step forward for the sport. By blending technology, teamwork, and entertainment, it offers a new way to enjoy golf while respecting the fundamentals of the game. As golf looks to attract younger audiences and grow globally, TGL shows how innovation and tradition can work together to shape the future of the sport.

GIA Research Desk

Image courtesy Aashish Vaishnava.



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TURF HEALTH ESSENTIALS

Testing, Caring, and Preventive Maintenance

Turf acts as a natural filter for air and water that enhances outdoor spaces for play and relaxation. Whether it's a sports field, golf green or lawn, they don't stay perfect on their own.

Healthy turf demands regular care and maintenance for long lasting vibrancy that prevents your turf from being brown and patchy. Some routine tests can be done for soil and turf that transform guesswork into smart care.



Surface Firmness Testing

Surface firmness measures how solid the ground is under pressure. Firmer surfaces provide faster ball rolls, better bounce and play consistency, while soft ones are more cushioning, resulting in slower play, holds excess water and cause potential footprints.

To avoid these problems firmness testing can be done by using a hammer having accelerometer inside it, which measures the firmness reading instantly when dropped from a certain height on the surface. Regular monthly checking lets you adjust irrigation and fix issues with aeration.

Turf stress detection

Turf stress detection relies on a specialized optical filtering principle derived from NASA technology. Stressed turf reflects less green and more in other wavelengths. The tool for detection filters out all green wavelengths reflected by healthy turfgrasses makes it look dark or muted.

As a result, stressed zones stand out in bright yellow or contrasting colors against the background. It can become visible 2-10 days before any symptoms visible to naked eyes, helps in identifying problem spots early and can be corrected by targeted treatments.



As a result, stressed zones stand out in bright yellow or contrasting colors against the background. It can become visible 2-10 days before any symptoms visible to naked eyes, helps in identifying problem spots early and can be corrected by targeted treatments.

Infiltration Test

Good infiltration prevents waterlogging, puddling and diseases, while poor infiltration often signals compaction, excessive thatch leading to reduce turf resilience and long-term decline.

Good turf drains 1-2 inches per hour. The standard method uses a double ring infiltrometer in which outer ring block sideways flow, directing infiltration vertically through the inner ring. The rate of water level drop is time to calculate infiltration in inches or mm per hour. This fast and low disturbance test provides reliable data to guide aeration and drainage improvements.

Conclusion

In conclusion, these tests provide a powerhouse routine by firmness for optimal playability, moisture for balanced hydration, stress for proactive vitality and infiltration for superior drainage. Scheduling these tests weekly or monthly delivers a lush, resilient turf that withstands traffic, weather and wear, ensuring you green space stays vibrant, functional and impressive year-round.

Vinod Goyal
CEO, Agricare Corporation



IPI India: Pioneers in World-Class Golf Course Construction & Irrigation

Irrigation products internal Pvt Ltd is known for supplying world class Toro products, Internal Brand Golf carts, Ventrac Machines, providing world class after market support services, complete Toro Irrigation system installation at Golf courses and sports field on a Turnkey basis. These unmatched commitment to the industry made our customers as well as prospective golf course developers to look up to us for their new Golf course construction or for the renovation of their existing courses. We had to accept the opportunities as we felt there is an absolute need for quality and professional agencies in Indian Golf course construction and maintenance domain, to genuinely guide the golf course developers.

It's a great inspiration, when there is complete Trust and high expectation on us from the Passionate golf course developers, Architects and well-wishers in the industry. we are being in the golf for more than Three decades cannot let down any of our clients, will live up to their expectation for sure.

Projects: The company's landmark projects include

- Completion of Kharghar Valley Golf Course 18-hole Golf course at Kharghar, Navi Mumbai along with our JV Partner
- Construction of putting green complex and Party lawn for JWM Marriott at Prestige Golfshire
- Development of Godrej golf side estate along with our JV partner,
- Development of Emgee Greens, Golf Themed property at Lonavala
- Irrigation system Installation to many leading golf courses like DLF, Oxford, TNGF, Clover Greens Golf course, Kalhaar Blues & Greens Golf Club, to name few.
- Redevelopment of The Club Mahabaleshwar Golf Course

Human resources: our company's great assets of Human resources includes Designers, civil engineers (golf course construction), shapers (with shaping dozers, surveyors (handling advanced surveying equipment), irrigation and drainage installation specialists, agronomists, operators for maintenance.



Ground Breaking Ceremony - The Club Mahabaleshwar Golf Course



Equipments used for constructio activities

Machinery and equipment: The company holds vast fleet of machinery and equipment. These includes shaping dozers-caterpillars, JCBs, excavators (Tata, Hitachi); Toro sand pro's , Toro Trenchers, Ventrac Tractor with Multiple attachments used in golf & sports field construction, Sod cutters, Machinery for Grow in and maintenance, Tractors with hydraulic Tippers.

Golf development services: We offer wide array of golf development services including:

- Preconstruction Audit services: co-ordinating a variety of soil and water tests to determine viability of land for construction.
- Golf course construction: Earthmoving and rough shaping, installation of irrigation systems, construction of Golf features including water bodies and other hazards, fine shaping, development of nursery and grow in maintenance, design and execution of cart paths.
- Driving range and Putting Green construction: Construction of driving range and other features and development of practice areas.
- Landscaping: Development of landscape surrounding golf course
- Manpower recruitment and training: Training all manpower including golf assistants (caddies) on their functions and formulating structured training programmes.
- Renovations: Upgradation of Existing golf Courses

Discover more about the Irrigation Products International Pvt Ltd and its services <https://www.ipi-india.com/golf-course-construction.php>



K Siva Kumar
CEO, IPI Pvt Ltd

DP World Announces Official Tie-Up with PGTI

DP World and PGTI have teamed up in a big way. This is exciting for golf in India. The news came on January 30, 2026, in New Delhi. DP World is now the top sponsor for PGTI. PGTI runs India's main men's golf tour.

Before this, DP World helped with one event last year. It was the DP World India Championship in 2025. Now they lead the full tour. They will give more prize money. They will fix up golf places. They will teach kids golf in cities. Top players from India can go play abroad.

DP World has loved golf for years. They helped events in Dubai since 2009. In 2022, they took over the DP World Tour. India matters a lot to their work. This helps more people here play and watch golf.

Rizwan Soomar leads DP World in India. He says India has lots of power for golf growth. Kapil Dev heads PGTI. He is a cricket hero. He calls it a new start. They want world rankings for events.

The first event was the DP World Players Championship. It began February 10 at Qutab Golf Course in Delhi. 126 players came. Stars like Veer Ahlawat and Manu Gandas played. Some are from Delhi and Sri Lanka.

Last year, PGTI had 36 events and gave over 35 crore rupees. This year brings more fun and cash. Golf will grow with jobs and new spots. Kids can dream big. It links to big tours like PGA.

DP World moves fast like a golf shot. Indian golf will shine now.

GIA Research Desk

Image courtesy PGTI.



Tour president Kapil Dev and DP World Group deputy CEO and CFO Yuvraj Narayan. Image courtesy PGTI.



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Yamaha – Expanding Beyond the Fairway

By expanding beyond the fairway, Yamaha Motor Company continues to position itself not only as a golf mobility leader but also as a comprehensive provider of smart, adaptable transportation solutions for today’s evolving communities and commercial environments.

For decades, Yamaha has been synonymous with reliability and innovation in golf mobility. However, the company’s vision now



stretches far beyond traditional golf course applications. Recognizing the changing needs of modern infrastructure, Yamaha has strategically expanded its vehicle lineup to serve a wide range of industries and environments.



Serving Diverse Industries

Yamaha vehicles are now widely used in:

- Master-planned communities – Providing efficient and eco-friendly mobility solutions for residents.
- Resorts and hospitality properties – Enhancing guest transportation with quiet, comfortable, and stylish vehicles.
- Universities and corporate campuses – Offering practical mobility for staff, students, and facility management teams.
- Municipal and industrial facilities – Supporting operational efficiency with durable and adaptable transport options.

This diversification reflects Yamaha’s commitment to delivering mobility solutions that align with modern operational demands and environmental considerations.

Smart, Adaptable Transportation Solutions

The versatility of Yamaha vehicles—combined with customizable seating and cargo configurations—enables organizations to tailor each vehicle to their specific requirements. Whether configured for passenger transport, utility support, maintenance tasks, or security patrol, Yamaha’s adaptable platforms provide flexibility without compromising performance or safety.

Moreover, as sustainability becomes a priority across industries, Yamaha’s battery-operated and energy-efficient models offer environmentally responsible alternatives to conventional transport systems. These vehicles contribute to reduced emissions, lower operating costs, and quieter environments—key factors in community and campus settings.



Driving the Future of Mobility

By moving beyond the fairway, Yamaha is redefining what compact mobility can achieve. The company is not just manufacturing golf cars; it is delivering integrated transportation solutions that support evolving community designs, smart infrastructure, and sustainable growth.

Through innovation, customization, and a commitment to quality, Yamaha continues to expand its footprint—proving that the future of mobility goes well beyond the golf course.

Mrs Kanaga
Head - Golf cart division, IPI (Pvt) Ltd



Water Management Solutions for the Modern Golf Industry: A Technical Perspective

Golf facilities operate as complex ecosystems that demand reliable infrastructure to support players, staff, and visitors. Among these systems, water management particularly drinking water treatment and distribution plays a critical role in ensuring health, compliance, and operational efficiency.

Water Quality Challenges in Golf Facilities

Golf courses require decentralized access to drinking water across multiple zones, such as clubhouses, practice ranges, player lounges, maintenance areas, and event spaces. These facilities often rely on large storage tanks and long distribution lines, increasing the risk of contamination, scaling, and inconsistent water quality.

From a technical perspective, unmanaged water quality can result in:

- Elevated TDS affecting taste and safety
- Microbial growth in storage and piping systems
- Increased wear on fixtures and dispensers
- Non-compliance with health and safety benchmarks

Enhancing Facility Standards Through Water Management

In modern golf infrastructure, water management extends beyond irrigation and landscaping. Providing safe, treated drinking water reflects adherence to hygiene standards and responsible facility management. From a systems perspective, reliable purification reduces operational risk and enhances the overall user experience without adding complexity to daily operations.

Conclusion

As the golf industry evolves, infrastructure expectations are becoming more technical and performance-driven. Drinking water systems are no longer auxiliary amenities but integral components of facility management. Through engineered water purification and management solutions, Adhunik Facilities contributes to safer, more efficient, and professionally managed golf environments—supporting long-term sustainability and elevated standards across the industry.

Adhunik Facilities' Water Management Approach

Adhunik Facilities' solutions for golf courses focus on point-of-use and centralized purification strategies. Depending on facility size and water demand, systems can be configured to deliver consistent flow rates, maintain pressure balance, and ensure uniform water quality across all outlets.

Key technical benefits include:

- Effective removal of dissolved salts, heavy metals, and pathogens
- Stable output quality despite variable input water conditions
- Scalable system design for high-traffic events and tournaments
- Reduced dependency on packaged drinking water

These systems are designed for continuous operation, minimal downtime, and ease of maintenance—critical factors for facilities operating year-round.



Adhunik Facilities: Expertise in Water Purification Systems

Based in Delhi, Adhunik Facilities specializes in the design, deployment, and maintenance of RO-based water purification systems for residential and commercial environments. The company's solutions are engineered to address variations in raw water quality, including high TDS levels, microbial contamination, and dissolved impurities commonly found in municipal and borewell sources.

Their systems integrate multi-stage filtration, reverse osmosis membranes, sediment and carbon filtration, and post-treatment processes to ensure potable water that meets safety and quality standards.

Akash Sharma,
Founder, Adhunik Facilities



From Innovation to Implementation: Reflections from Orlando's Golf Industry Nexus

Orlando in early 2026 wasn't just a series of events — it was a strategic convergence of the forces shaping golf's next decade. From the **2026 PGA Show** to the **GCSAA Conference and Trade Show**, the narrative was clear: golf is evolving, and at its core lies powerful human experiences enabled by thoughtful design and cutting-edge technology.

1. The PGA Show: Where Tradition Meets Innovation

The PGA Show remains the industry's barometer, capturing the pulse of both legacy players and emergent innovators. This year felt especially compelling because the conversation wasn't limited to equipment or apparel — it was expanding into how the game is consumed, experienced, and reimaged.



Image courtesy Aashish Vaishnava.

Walking the floor, I was struck by the prominence of golf technology — not just incremental upgrades, but transformative tools like sophisticated golf simulators, immersive indoor golf systems, and data-driven coaching platforms. These aren't novelties anymore; they are reshaping how golf is marketed, accessed, and played.

This matters deeply from a design standpoint. Courses will always be foundational, but the touchpoints that introduce people to golf, keep them engaged, and bring them back are increasingly digital, experiential, and hybrid in nature.



Image courtesy Aashish Vaishnava.

2. Technology Isn't an Add-On — It's a Gateway

One of the most exciting developments in golf tech is the rise of indoor golf and simulator experiences. These aren't just practice tools — they are engagement engines.

Indoor golf simulators can generate incredibly detailed swing analytics, capture ball flight data, and recreate real courses with stunning realism. Today's systems leverage advanced sensors, high-resolution graphics, and even AI to create hyper-realistic simulations that are as useful for serious training as they are for entertainment.

What this means strategically:

- Accessibility expands: Weather, geography, and time constraints vanish when you can practice or play virtually any time. No longer does golf have to be a daylight, outdoor-only sport.
- Democratization of play: Indoor golf brings the sport into urban centers, mixed-use facilities, and social entertainment venues where people gather for more than just golf — food, drink, socializing, and fun.
- Training meets data science: Coaches and players now gain insights once reserved for elite athletes. Launch angle, spin rates, swing path, and more can be captured with precision and visualized in ways that meaningfully accelerate improvement.

When the traditional outdoor game integrates with these tools, the result is a new pipeline for growth — attracting enthusiasts at every level and keeping them engaged through meaningful feedback loops.

3. GCSAA Conference: Grounded in Stewardship, Eyes on the Future

Just days after the PGA Show, the GCSAA Conference and Trade Show brought us back to the practical essentials of course management. Turf science, sustainability, workforce development — all crucial pillars for golf's long-term health.

But what stood out was how technology is intersecting here too: smarter irrigation systems, AI-driven predictive maintenance tools, data platforms that streamline labor planning — all supporting greener, more efficient courses.



Image courtesy Aashish Vaishnava.

These conversations highlighted that innovation isn't just flashy tech — it's applied intelligence that supports operators and stewards who keep the game alive.

4. Bridging Physical and Digital for a Holistic Golf Experience

Across both events I saw one clear theme: convergence. The future of golf isn't outdoor or indoor, traditional or digital — it's all of the above. The courses I design must inspire awe, yes — but they must also connect seamlessly with digital touchpoints that extend play, learning, and enjoyment year-round.

Indoor tech and simulators represent that bridge.

Imagine:

- A prospective member experiencing your signature hole virtually before ever stepping foot on the property.
- Local residents enjoying an indoor golf lounge that feeds real course traffic.
- Young players cultivating an early love of the game through engaging, gamified simulations that feel less intimidating than a traditional course.

This is the future I see – where design, commerce, and community are co-created through hybrid experiences.

5. Key Takeaways from Orlando

- Technology amplifies reach: From simulators to analytics, tech isn't replacing golf – it's expanding the ways people connect with it.
- Design must be data-smart: Courses must be beautiful and smart – integrated with tools that deepen engagement and unlock new revenue channels.
- Golf becomes more inclusive: Indoor and virtual experiences lower barriers to entry, making golf more approachable and fun for diverse audiences.

Conclusion

The Orlando circuit reaffirmed something I've long believed: golf's evolution isn't about abandoning tradition – it's about augmenting it. Technology like indoor golf simulators, realistic practice systems, and immersive digital platforms aren't sideline accessories – they are accelerators for growth, participation, and lifelong love of this sport.

For course designers, operators, and strategists, this means thinking beyond fairways and greens. The future of golf will be shaped by experiences that connect people to the game wherever they are – physically and virtually.

And that future, from what I saw in Orlando, is already here.

Aashish Vaishnava

Golf Architect



Image courtesy PGA



My Golf Tours Showcases India at Europe's Prestigious Danish Travel Show 2026

India's growing stature as a premier global golf tourism destination received significant international exposure as My Golf Tours, in association with the Indian Embassy Copenhagen of India, successfully participated in the Danish Travel Show 2026 held in Herning, Denmark – one of Europe's largest and most influential travel exhibitions.

The event featured a dedicated Golf Tourism Hall, bringing together leading golf destinations, tour operators, golf resorts, and specialized service providers from across Europe and beyond. The focused platform allowed golf tourism stakeholders to connect directly with international buyers actively seeking new golfing experiences worldwide.

Representing India's golf tourism sector, Mr. Shyam, Director of My Golf Tours, engaged extensively with both B2B industry professionals and B2C travellers, highlighting India's unique positioning as a destination combining championship golf courses with rich culture, heritage, wellness, cuisine, and luxury hospitality.



Through curated presentations, destination showcases, and personalized interactions, My Golf Tours promoted India's diverse golf circuits including:

- Championship golf experiences across India
- Luxury golf holidays integrating culture and heritage
- Wellness and experiential golf travel
- Tailor-made golf itineraries for international golfers

The Indian Pavilion, supported by the Embassy of India in Copenhagen, attracted strong interest from European golf travellers eager to explore emerging golf destinations beyond traditional markets.

Participation at the Danish Travel Show marks another important milestone in My Golf Tours' continued efforts to position India as a world-class golf tourism destination. The engagement generated valuable networking opportunities, strengthened partnerships with European tour operators, and reinforced India's growing appeal among global golfing communities.

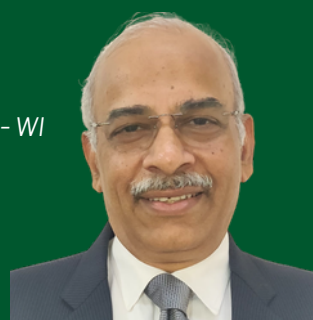
Speaking on the occasion, Mr. Shyam emphasized that international platforms such as the Danish Travel Show play a crucial role in expanding awareness of India's golfing potential and building long-term inbound golf tourism.

This initiative represents yet another step forward in promoting India globally – showcasing not only exceptional golf courses but also the country's unmatched diversity of experiences that make golf travel to India truly distinctive.

My Golf Tours remains committed to working closely with global partners and industry bodies to drive awareness, collaboration, and growth for Indian golf tourism on the international stage.



By Arun Iyer- Mg. Director My Golf Tours,
 Committee Member Golf Industry Association
 Hon. Secretary. Travel Agents Federation of India - WI



Remembering - Legendary Golf Referee - John Paramor

A First-Person Tribute from a Turfgrass Agronomist Shaped by the Rules

I came into golf as a turfgrass management trainee straight from college campus from where I was picked—and I began training so as to read the land, understand grass response, and deliver playing surfaces that are fair, consistent, and resilient. In the beginning of my career at DLF Golf & Country Club my professional world revolved around soils, grasses, water, and the invisible details that players rarely notice when things are done right. The Rules of Golf mattered, of course, but they felt distant from my daily responsibilities. They belonged to referees, tournament officials, and rule books—not to someone whose primary concern was the condition of the turf underfoot. Since John Paramor's passing on 17 February 2023, his influence on the Rules of Golf has felt more enduring than ever. That understanding changed over time. And it changed because of John Paramor.



Image courtesy BBC

Where It Began: Authority, Calm, and 2008

My earliest memory of John goes back to 2008 at DLF Golf and Country Club, during the Johnnie Walker Classic—and the incident involving Gaurav Ghei. In that tournament week I was busy figuring out how agronomy has to be perfect for a golf event that was happening for the first time in India. But as the tournament progressed, one moment particularly turned out to be a tense one for Indian golf. The ruling was controversial, emotional, and widely discussed. As a young turfgrass professional just beginning my career, I was witnessing not only a major international tournament, but also the collision between sporting aspiration and the uncompromising nature of the Rules. What stayed with me was not the controversy itself—it was the composure. John Paramor applied the Rule, explained it clearly, and stood by the decision without raising his voice or seeking attention. There was no defensiveness, no attempt to soften the outcome for public comfort. There was only clarity, fairness, and resolve. Watching that moment unfold, I learned my first real lesson about governance in golf: Integrity doesn't announce itself. It simply holds its ground. At the time, I could not have known how pivotal that moment would become in shaping my professional thinking.

From Observing to Knowing Him

Over the years that followed, I had the privilege of meeting John on several occasions. I saw him during his visits to Delhi Golf Club where I later worked, and where professionals, administrators, and officials would naturally gather around JP—not because he demanded attention, but because his presence inspired confidence. In conversations and in observation, certain qualities became unmistakable:

- He listened carefully before responding
- He explained complex Rules with disarming simplicity
- He carried authority without ever appearing authoritative

Each interaction reinforced what I had sensed from afar: John carried the Rules lightly—but never loosely. He understood that respect for the game flows from respect for the people who play it. For me, still firmly rooted in agronomy, these encounters planted a quiet curiosity. I began to see refereeing not as enforcement, but as stewardship.



Image courtesy Today's Golfer

Wentworth, 2015: Learning from Another Angle

In 2015, my perspective widened significantly when I had the opportunity to work as an Agronomy Volunteer at the BMW PGA Championship at Wentworth Golf Club, London. That week was transformative. From dawn preparations to tournament-pressure decision-making, I saw how elite championships function as finely balanced ecosystems. Agronomy, course setup, officiating, broadcast schedules, and player expectations all intersect—often within minutes. John was there, exactly as I remembered him: calm, exacting, deeply respected. Watching him operate in that environment made something clear to me for the first time: The best tournaments succeed when agronomy and rules work in quiet harmony. Relief areas, course markings, temporary structures, ground conditions—none of these exist in isolation. They sit at the intersection of turf decisions and Rules interpretation. That realization shifted how I viewed my own role on a golf course. I was still a turfgrass professional—but my curiosity for the Rules was no longer casual. It had become intentional.

St Andrews, 2020: When the Circle Closed

In 2020, I appeared for Rules School conducted by Indian Golf Union (IGU) and after securing Rank1 in that year, was nominated to attend Tournament Administrators and Referees Seminar (TARS) Seminar at St Andrews, organised by The R&A. During one of the rules training sessions there, a familiar video clip appeared on the screen—the John Paramor–Gaurav Ghei incident from 2008. This time, however, it was not presented as controversy. It was presented as education. The instructors explained how that very incident contributed to deeper discussions, clarifications, and eventual Rule changes in the years that followed. What I had witnessed firsthand as a young agronomist in India had become a formal case study in how the Rules evolve. Sitting there, in the home of golf, I felt a quiet sense of completion. Golf's Rules are living principles, refined through real situations, real people, and real integrity. Few professionals are ever granted the chance to see a moment from their own early career reappear years later as part of the game's institutional learning. That moment belonged to John.

Still an Agronomist—Now Also a Student of the Rules

I still remain, first and foremost, a turfgrass agronomist, deeply committed to surfaces, sustainability, and playability. But because of John Paramor, I added another skillset: formal education, certification, and practical understanding of Golf Rules and refereeing. That knowledge has not pulled me away from agronomy—it has strengthened it. I now see golf courses not only as landscapes, but as competitive arenas where fairness must be protected as carefully as turf quality. Understanding the Rules has made me more effective in tournament preparation, communication with officials, and anticipating the needs of championship golf. John never set out to teach me. He never needed to. His professionalism did the work for him.

A Personal Remembrance

To the world, John Paramor will always be remembered as one of the finest referees the game has ever known—a guardian of integrity at the highest level. To me, he will always be the man who showed, simply by example, that quiet excellence can change careers, or enhance them. I met him several times. I watched him work. I learned from his decisions—both directly and from a distance. And today, every time I open the Rule book alongside my agronomy notes, I am reminded of how one referee broadened the way I serve the game. That is a legacy far greater than any single ruling. Written in remembrance and gratitude

Bhupendra Singh

Turfgrass Agronomist & Golf Course Superintendent



Image courtesy DP World Tour

A Ruling That Helped the Rules Evolve

The Gaurav Ghei incident during the Johnnie Walker Classic in 2008 is now regarded as a defining case study in modern golf officiating. Playing at DLF Golf and Country Club, Indian professional Gaurav Ghei was later disqualified after television footage showed a slight movement of the ball—less than a centimetre—when he chipped from the 18th green. Ghei himself had not noticed the movement. The incident came to light when John Paramor, then Chief Referee, received a text message from a colleague in the UK who was watching the broadcast.

- “Unfortunately nobody saw the movement,” Paramor explained.
- “But clearly in the TV pictures, the ball does move—though for a very, very small distance.”

By the time the evidence was reviewed, Ghei had already completed the round.

- “I got the text message at around six in the morning,” Paramor said.
- “By the time I examined the evidence, he was playing his last hole.”

Under the Rules at the time, the penalty was automatic disqualification. In later years, this incident became a teaching example and contributed to the 2019 Rules revision, where unintentional scorecard and movement errors now carry penalties instead of disqualification.

Thoughtful Course Design: Outdoor Furniture as an Integral Element of the Golf Landscape

Golf has always occupied a unique place in the sporting world. Far beyond a game, it is an ecosystem shaped by community, etiquette, design, and even landscape. As participation continues to grow in India and globally, the conversation around course excellence is naturally evolving. Today, it extends well beyond fairways and greens to encompass the cohesion and quality of the overall golfing experience.



Having played the game for over five decades across continents, I have seen firsthand how subtleties define truly great courses. At St Andrews in Scotland, the spiritual home of golf, every shared fairway, stone wall, and time-worn feature tells a story.



The course does not impose itself on the player, instead, it invites reflection, patience, and respect for the game's origins. Pebble Beach offers a different kind of reverence altogether. There, the Pacific Ocean becomes part of the scorecard, with sweeping cliffside vistas reminding players that golf can be both technically demanding and visually breathtaking. Despite their contrasts, both courses demonstrate a deep respect for balance, restraint, and intentional design.

These lessons are equally relevant closer to home. At my home club, the Karnataka Golf Association, one of the most heavily played courses by volume, golf functions as a living, breathing commons where players of all levels come together. In such an environment, the smallest details play an outsized role in shaping experience. Thoughtfully placed benches, for instance, create moments of pause—spaces for rest, conversation, and quiet observation.

When designed well and situated intentionally, they complement the landscape and enhance the natural rhythm of play. When overlooked, even an otherwise excellent course risks an air shot in the overall experience.



Golf courses are exposed year-round to intense sun, monsoons, humidity, and fluctuating temperatures. Durability, therefore, is not optional. Materials that rust, fade, or weaken compromise both aesthetics and long-term value. This reality has driven a growing preference for robust, low-maintenance materials such as aluminium, which offer corrosion resistance, structural integrity, and longevity suited to demanding outdoor sporting environments.



Equally important is identity. Modern golf clubs are far more than sporting venues; they are communities and brands in their own right. Subtle customization, such as integrating club emblems or visual signatures into benches, tee markers, or accessories, allows clubs to express character with elegance rather than excess. Clean lines and neutral finishes ensure that design supports the landscape, rather than competing with it.

This philosophy is increasingly reflected in India's emerging ecosystem of purpose-built golf infrastructure. Manufacturers such as Ibex Lifestyle focus on creating outdoor furniture and accessories designed specifically for golf environments, balancing durability, functionality, and visual coherence. At a time when participation is rising and expectations are evolving, carrying forward golf's unique sensibilities in a contemporary way is essential.

As the Indian golf industry continues to mature, attention to these considered details will help elevate standards across facilities. Thoughtful design that is quiet, durable, and intentional ensures that the transcendental experience of golf endures for generations to come.

Sumit Rathor

Co Founder and Brand Ambassador
Ibex Lifestyle



Swinging India: The Rise, Revenue & Reality of Golf Tourism in India

India's golf journey has moved far beyond its colonial roots. What was once an exclusive activity has evolved into a vibrant mix of sports, luxury, tourism, and business networking. Golf facilities across the country are being transformed into luxury destinations that combine heritage, hospitality, and high-performance sports.

With over 230 golf courses, India offers a unique mix of history and modern excellence. The historic Royal Calcutta Golf Club, established in 1829, reflects the game's deep legacy, while contemporary venues like Delhi Golf Club and DLF Golf and Country Club showcase world-class championship infrastructure.

Professional tournaments adhere to worldwide standards, with 72 holes over four days, tough course layouts, fast greens, and strategic hazards, guaranteeing that Indian courses compete on a global scale.

The Professional Golf Tour of India (PGTI) drives the sport's professional structure by developing indigenous talent and hosting major tournaments. The famous Indian Open has drew foreign players and media attention, increasing India's global presence in golf.



With prize payouts in the crores and significant corporate sponsorship, tournaments now generate revenue from hospitality, pro-am events, branding, and broadcast rights, making golf a sporting and commercial success story.

Golf tourists are affluent travellers. Aside from green fees, they invest in premium hotels, tailored travel experiences, excellent restaurants, and spa retreats. Cities such as Gurugram and Mumbai are increasingly using golf to lure corporate tourists and international visitors.

In modern India, golf is no longer just a legacy sport. It is a strategic tourism driver, connecting business, lifestyle, and global ambition, one fairway at a time.

Our Approach: Blending Business, Culture & Golf

Through our initiatives, we are consciously positioning golf as more than a sporting arena, it is a strategic relationship-building platform. By designing curated golf experiences that combine competitive play with business networking, cultural immersion, and luxury hospitality, we create environments where conversations convert into collaborations.

From invitational tournaments that bring together industry leaders to thematic golf retreats that integrate regional culture, cuisine, and curated experiences, we are building a bridge between boardrooms and fairways.

Our work reflects a clear vision: to use golf as a platform for meaningful connections, brand storytelling, and experiential tourism that celebrates India's diversity while driving tangible business outcomes.

In modern India, golf is no longer just a legacy sport. It is a strategic tourism driver, connecting commerce, culture, lifestyle, and global ambition, one fairway at a time.

KK Dubai
Innovative Sports & Leisure LLP

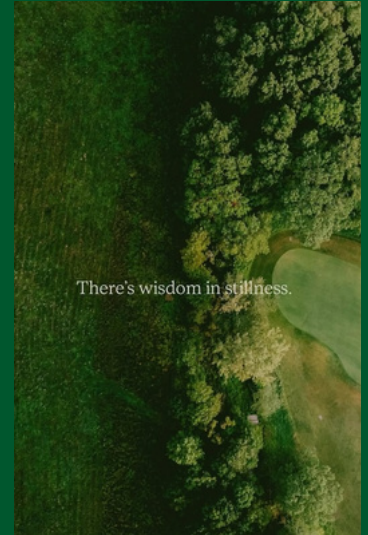


“Power, Turf, and Trust: Establishing Ethical Committee–Superintendent Relationships”

How Golf Committees Must Treat Golf Course Superintendents at Work

Introduction

Golf course superintendents play a critical role in maintaining course quality, environmental sustainability, and overall golfer satisfaction. Their responsibilities require technical expertise, long-term planning, and daily operational decision-making. For a golf facility to function effectively, golf committees must treat superintendents with respect, professionalism, and clear support. Proper governance fosters collaboration, protects course standards, and ensures organizational success.



Professional Respect and Authority

Golf committees must recognize the superintendent as the chief authority on agronomy and course maintenance. According to the Golf Course Superintendents Association of America (GCSAA), superintendents are trained professionals whose decisions are based on science, experience, and local conditions. Committees should avoid micromanaging maintenance practices or overruling technical decisions without consultation. Respecting professional boundaries helps maintain turf health and prevents costly mistakes.



Clear Roles and Communication

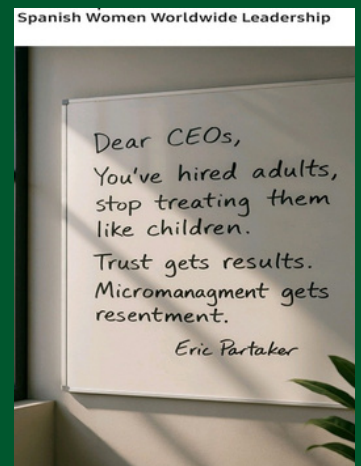
Effective treatment of superintendents requires clearly defined roles. Committees should focus on policy, budgeting, and long-term strategic goals, while leaving daily operational decisions to the superintendent. Regular, structured communication—such as scheduled meetings—allows concerns to be addressed constructively. The United States Golf Association (USGA) emphasizes that open dialogue between committees and superintendents leads to better decision-making and fewer conflicts.

Support in Budgeting and Resources

Superintendents must be provided with adequate resources to meet course expectations. Committees have a responsibility to align golfer expectations with realistic budgets. Unrealistic demands without proper funding place unfair pressure on superintendents and staff. Supporting equipment upgrades, staff training, and maintenance programs demonstrates trust and commitment to course quality and safety.

Workplace Respect and Ethical Treatment

Golf committees must ensure superintendents are treated with dignity and fairness. This includes respecting working hours, acknowledging the physical and mental demands of the job, and avoiding public criticism. Performance concerns should be handled privately and professionally. Ethical treatment also involves supporting workplace safety, diversity, and professional development opportunities.



Micromanagement is a complete waste of everybody's time. It sucks the life out of employees, fosters anxiety and creates a high-stress work environment. Select the right people and give them room to get on with the job.

Brigette Hyacinth

Leadership First

Inclusion in Strategic Planning

Superintendents should be included in long-term planning discussions such as course renovations, sustainability initiatives, and tournament preparation. Their input is essential for realistic timelines and cost estimates. Research published by the USGA highlights that facilities with superintendent involvement in planning experience improved outcomes and reduced maintenance disruptions.

Conclusion

Golf committees that treat superintendents as trusted professionals create a positive working environment and a better golf product. Respect, clear communication, adequate support, ethical treatment, and inclusion in decision-making are essential. Each golf course functions under a unique combination of design characteristics, environmental factors, and management practices; therefore, direct comparisons of course conditions are neither appropriate nor professionally valid. When committees and superintendents work collaboratively, golf facilities benefit through improved course conditions, staff morale, and long-term sustainability.

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Harshada Abhyankar (Bhagavati)
Golf Course Superintendent



When dealing with a golf committee that needs a reminder to trust professional expertise rather than micromanaging, the right quote can bridge the gap between being respectful and being firm.

On Respecting Professional Expertise

- **The Gold Standard:** "It doesn't make sense to hire smart people and then tell them what to do; we hire smart people so they can tell us what to do." — [Steve Jobs](#)
- **The Cost of Amateurs:** "If you think it's expensive to hire a professional, wait until you hire an amateur." — [Red Adair](#)



TURF COLORANTS

GUEST ARTICLE

Enhancing Aesthetics and Sustainability on Golf Courses

Maintaining a vibrant, uniform green color year-round is a constant priority in turf management. A biologically green turf often requires massive irrigation, excess fertilization or overseeding, especially in stress conditions such as drought. Turf colorants emerged as a practical and sustainable tool to address these challenges without relying on intensive resources practices.

What are Turf Colorants?

Turf colorants are specially formulated pigments or dyes applied to turfgrass to enhance and restore green color in grasses. These are water-based products that contain light and stable pigments often include iron oxide or phthalocyanine-based compounds. These pigments provide an immediate visual improvement by coating leaf surfaces without clogging stomata and blocking photosynthesis.



The formulation mimic natural chlorophyll coloration is designed to withstand mowing and weathering. Turf colorants are engineered to be UV resistant, non-toxic, and safe for all grass types, providing long lasting aesthetic improvement to turf areas.

Benefits Beyond Color

Beyond aesthetics, turf colorants deliver several agronomic advantages that support turf health.



- **Improves early spring green up and late season color-** Dark colorants absorb more solar radiation, raising surface temperatures, which can speed up metabolic activity in cool conditions. This promotes earlier spring green up and better color retention in fall, making turf healthy and active looking even in slow growth phase.
- **Reduce heat and UV stress-** Light colored colorants reflect harmful UV and NIR light while letting useful photosynthetic light through, reducing surface temperature. This makes turf more resilient during dry spells or summer heat waves, lowering heat stress and protects grass from sun burn.
- **Reduces overseeding in warm season turf-** Turf colorants can maintain a green appearance on warm season grasses in winters without overseeding ryegrass.

- This saves water, seeds and labor cost that helps in avoiding competition between overseed grass and permanent turf.
- **Helps turf survive in heat and drought-** Light colored turf colorants reduce the light intensity and surface temperature, which can lower transpiration in turf. This helps turf survive during dry spells.

Environmental and Sustainability Aspects

Turf colorants align well with the goal of sustainability and resource efficiency, especially in Indian golf courses in which water scarcity is a major concern.

- **Low water and fertilizer use-** Maintaining green area with overseeding requires frequent irrigation and fertilizer applications during transitional seasons. Colorants can cut these needs, providing a vibrant green color instantly.
- **Reduce runoff and chemical inputs-** Turf colorants are water-based products with low toxicity and minimal environmental persistence. It can lower the overall chemical load compared to traditional overseeding.
- **Low carbon footprints-** Turf colorants reduce machinery hours, fuel consumption and emission, making them a more climate-friendly choice for seasonal color management.



Conclusion

Turf colorants offer a simple, low-impact way to achieve premium aesthetics without the need for heavy resource overseeding. While colorants are cosmetic, but they are not just “paint for looks”, they can help handle stress and support more precise agronomic practices. Overall, turf colorants are eco-friendly and align with sustainability and long-term industry progress.

Herman Irani

President and CEO
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GIA

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