



PAN INDIA OPEN CONTEST- DESIGN AND DEMONSTRATION

[Sponsored by Shiv Naresh Sports Pvt. Ltd.](#)

Contest to design and demonstrate: Automated sanitization, dart, dust and debris removal for maintenance of various kinds of artificial Turf and synthetic sports surfaces.

Register & Submit: <https://docs.google.com/forms/d/e/1FAIpQLSdCkGBerY0n7RBpIRV2vliF8K-15Khb6z3BhY2JLXin3E9slg/viewform>

As part of the 2nd International conference on sports Engineering (ICSE-2021) scheduled to be held at Jodhpur (Rajasthan) during 03-05 March 2022, a Pan India open Design contest with attractive prizes sponsored by business houses is planned. The contest is aimed at attracting the brightest minds in the field of engineering for finding innovative solutions to contemporary problems in sports domain.

How to participate:

Submit your design details and claim of novelty, in the form of write-up, drawings, picture and/or video in a single .ppt file of max 100Mb by the deadline (30th September 2021) 10th December 2021.

Revised Dates:

Last date for Registration & submission: 10th Dec'2021

Shortlisting by: 30th Dec'2021

**Final Presentation (shortlisted submission) 3rd March 2022
at the conference venue, Jodhpur, Rajasthan.**

Problem Statement (requirement of as many features as possible)

1. Sanitization of sports surface
2. Removal of surface dirt from on and around the pitch
3. Removal of any organic growth on and around the surface
4. Removal of inorganic material from on and around the surface and the surrounding including glass, bottles, food wrappers, and general rubbish items/debris.
5. Removal of contamination such as bird and animal droppings ensuring the area is neutralized

Artificial turf and synthetic Sports Surface are widely used around the world in sports facilities for all weather availability, standard ground response and performance enhancement. Their usage is expected to increase in India and elsewhere. However, maintenance of such surfaces is a very important factor in the short-term use and long-term viability of a synthetic playing field. In the short-term, quick sanitization and cleaning to enhance playability, minimization of injury potential and added enjoyment are the major considerations. While in long term, an appropriate maintenance schedule to reduce surface degradation and wear and tear are important.

Quality assurance systems for elite and community level artificial surfaces demand different maintenance schedule. But in both cases it is important have appropriate automated



machinery for sweeping, cleaning, disinfecting and repairing the turf carpets. There is a range of maintenance techniques available in the markets however there is ample scope of development of new technologies. This contest aims to encourage Indian innovators and entrepreneurs to come out with novel design of mechanized and automated cleaner with multiple features for maintenance of artificial sports surfaces without disturbing the actual nature of the surfaces. The design should provide a unique insight into the short-term and long-term benefits of these intervention processes.

Judgment/ evaluation procedure

The panel of Judges and Experts will include people from industries and Technical Institutes to evaluate the presentation of designs during the ICSE-21. The decision of the committee will be final and binding on the contestants.

Attractive Cash prizes

There are cash prizes offered for the top three designs as well as an opportunity to present their work at inaugural of International Conference for Sports Engineering scheduled to be held in Jodhpur (Rajasthan) during 03-05 March 2022. Besides the cash price, the winners will have the opportunity of getting Mentorship from the Industry and funding for possible commercialization of their product. The final results will be declared on 3rd March 2022 base on presentation at the conference venue.

Cash Prizes:

First Prize:	Rs. 50,000/-
Second Prize:	Rs. 35,000/-
Third Prize:	Rs. 25,000/-

Detailed Guideline

It is highly recommended that you go through the following Detailed Guidelines document carefully before Participating.

Eligibility

Any Indian citizen can register and participate in the contest. ICSE-21 reserves the right to verify eligibility and to adjudicate on any dispute at any time.

Additional requirements

- Submission must be entirely the original work of the participant – whether it is of an individual or team (excluding use of open source or other code and resources created for Common use).
- Submission must not contain any advertisement or solicitation.
- Submission must not contain anything that is or may be construed as (i) threatening, harassing, degrading or hateful; (ii) defamatory; (iii) fraudulent or tortious; (iv) obscene, indecent or otherwise objectionable; or (v) protected by copyright, trademark or proprietary right without the prior consent of owner of such right;
- Submission must not contain any material that would give rise to criminal or civil liability or that encourages conduct that constitutes a criminal offence
- Submission must otherwise completely comply in all respects with those prevailing rules and policies of the country. Any and all works created during the contest are



developed under the Creative Commons Attribution 4.0 International Public License.

ICSE-21 and its representatives will have no responsibility for, and will have the right to refuse at its sole and absolute discretion, any entries that have been altered, tampered with, misdirected, incomplete, non-conforming, corrupt, lost, late, or ineligible, whether due to Internet or e-mail server failure or otherwise. Proof of transmission of a submission shall not constitute proof of receipt. It is each entrant's responsibility to keep ICSE-21 and their representatives informed of any changes to entrant's contact or other information during the competition. By agreeing to participate in this event and signing these rules, the contestants who have created the open source application(s) waive any future claims for compensation.

Publicity

All entrants of the competition agree to the use of his or her name or likeness, affiliation and contact details for promotional purpose by ICSE, its representatives, and their agencies without additional compensation, unless prohibited by law.

Prizes

Couple of business houses including **Shiv Naresh Sports Pvt. Ltd** and **The International Sports Engineering Association (ISEA)** has expressed interest in honoring the winners of various contests with suitable prizes in cash, kind and service. The first announcement prize money notified (1.1 L) is, therefore, the base amount and ICSE reserves its right to modify the same depending on situation.

Organizing committee of ICSE-2021