Acousto-Scan Pty Ltd

44/59 Halstead street, South Hurstville, NSW 2221
Sydney, Australia

- Established in 1993 – 25 years old laboratory
- ISO 17025 / NATA international laboratories
- 6 persons in Australia + 5 in Asia & worldwide
- Asian Operations from Bangkok since 2014
Acousto Scan India Pvt Ltd

- Regus Level-1, Redfort Capital, Parsvnath Towers, Gole Market, Delhi-110001, India.
- Operate since 2017
- Tested more than 50 FIH fields in INDIA
- First FIH Global Elite In India at INA Ezhimala
- First FIH 5S in Agra at Eklavya Sports Stadium
- And many more…
References (over 300 certifications...)

Beijing Olympics Stadium – Bird Nest 2008
Youth Olympic Stadium – Singapore 2010
Youth Olympic Games – Buenos Aires 2018
IAAF World Championships – Daegu 2011
South East Asian Games – Singapore 2015
South Asian Games – Guwahati 2016
South East Asian Games – Bukit Jalil 2017
PON Games – Bandung 2016
Asian Games – Jakarta and Palembang 2018

And all over the world !!!
FIH QUALITY PROGRAMME FOR HOCKEY TURF

http://www.fih.ch/inside-fih/fih-quality-programme-for-hockey-turf/
<table>
<thead>
<tr>
<th>Class of Hockey Turf</th>
<th>Global Elite Field</th>
<th>Global Field</th>
<th>National Field</th>
<th>Multi-Sport Field</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Global</td>
<td>National Class 1</td>
<td>National Class 2</td>
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<tr>
<td>FIH Tier 1 International Competitions</td>
<td>✓</td>
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<tr>
<td>Other International Competitions</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Top level Continental Competitions</td>
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<tr>
<td>International Development Competitions</td>
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<tr>
<td>Community Club Competitions</td>
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<tr>
<td>Schools Competitions</td>
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<tr>
<td>Community &amp; School Hockey Field also used for sports such as small sided football, futsal etc.</td>
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<tr>
<td>Community &amp; School Hockey Field also used for sports such as tennis</td>
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<tr>
<td>Community &amp; Basic Development Hockey Field designed for football with hockey as a secondary sport</td>
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</tbody>
</table>

**TIER LEVELS**

**CERTIFIED FIELD**
- **ELITE**
- **GLOBAL**
- **NATIONAL**
- **MULTI-SPORT**
- **Two years** certification (Global, National and Multi-Sport: 3 years)
- The field must be **irrigated** (sprinklers system) – using GLOBAL product
- Compulsory **run-offs size**: end run-offs ≥ 5.0 m and side run-offs ≥ 3.0 m
- Minimum **operational zone** (camera) of 1m wide.
- Longitudinal gradient ≤ 0.2% and lateral gradient ≤ 0.4% and symmetrical
- **North/South alignment** with a maximum deviation of 15%
- Require a **FIH Quality Programme logo** within the run-offs
- **Fencing**: Side ≥ 1.0 m + Ends Mesh ≥ 3.0 m with a suspended net ≥ 7.0 m
- **Sports Equipment** (goal with side and back boards, corner flags) mandatory
- **Maintenance Equipment** and movable hoses on-site + records in maintenance log
- **Technical Officials’ table** (minimum 6m wide by 3m deep centered on halfway line)
- **Two team benches**, providing seating for 11 people with water supply and power
GLOBAL ELITE
Players cabin
Technical Table

ACOUSTOSCAN
Global Elite Hockey Field – Conceptual Layout

- Operational zone
  - Player access gates (min. 1.2m wide) – position site specific
  - Team bench and kit area
  - Area for Technical table
  - Perimeter fence (min. 1m high)
  - Vehicle access gates (min. 3m wide) – position site specific
  - Perimeter fence, min. 7m high. Ball catch netting above 3m acceptable

Global Elite Hockey Field – Conceptual Layout
**DIMENSIONS**

Length 91.40

Width 55.00

Quarter 22.90 Middle 45.70

Shooting circle 14.63

Penalty 6.475

Line widths (75 ± 10mm)

Tolerances

50 mm (lengths)

30 mm (otherwise)
- **Logo in the Field of Play**
  - Not authorized in Global Elite
  - Permitted but may exclude field from Competition

- **Other lines markings**
  - White lines only for Elite
  - Permitted (UV tested)

- **5m broken lines outside shooting circles**
  - Mandatory for Global Elite
  - Optional for other Tiers
Shock Absorption
Vertical Deformation
Energy Restitution
Shoe-Surface Friction
Ball Rebound
Ball roll + Deviations
Field irrigation
Surface Regularity
Field gradients