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RESTROOM ASSOCIATION (SINGAPORE) AWARDS FIRST SIX-STAR RESTROOMS

The Shoppes at Marina Bay Sands is first to be awarded six-star ratings for adopting smart restroom solutions

1. At a media briefing held today, the Restroom Association (Singapore), RAS, announced The Shoppes at Marina Bay Sands as its first six-star rating recipient. The luxury mall is the first and only establishment in Singapore to be accredited six stars for six (male and female) of its newly revamped restrooms after undergoing an audit conducted by the RAS.
2. The six-star rating is the top rating of RAS' grading system (**Annex A**). Apart from meeting excellent service and cleanliness requirements, six-star restrooms need to adopt smart solutions that will increase productivity and efficiency, through the use of automated feedback and cleaning systems. Cleaning attendants will also need to be certified with the Singapore Workforce Skills Qualifications (WSQ) in washroom cleaning. The six-star rating is due for renewal on an annual basis.
3. A Marina Bay Sands spokesperson said, "Marina Bay Sands is constantly looking at ways to enhance productivity by leveraging technology. The implementation of these smart toilet solutions in the mall, such as the toilet visitliser technology, allows our cleaning supervisors to monitor the restrooms in real time, so as to improve response time, and better manage our manpower and consumables inventory". The mall plans to upgrade the rest of its 30 five-star restrooms progressively.
4. RAS' partners also presented its holistic Detect Feedback Eliminate Save (DFES) Smart Restroom Solutions (**Annex B**) which have been adopted by The Shoppes at Marina Bay Sands. The partners, including Adsec Global Pte Ltd, Aqua Tech Pte Ltd, Convergent Smart Technologies Pte Ltd and Infinergy Systems Solutions Pte Ltd, also unveiled upcoming plans to enhance smart toilets to meet future needs.

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About Restroom Association (Singapore)

The vision of the Restroom Association (Singapore) or RAS is A Gracious Society Embracing Excellence in Restroom Culture. Started in 1998 as a non-profit organisation, RAS is dedicated to building an excellent restroom culture by actively engaging owners, the cleaning industry and users to play their part. Some of its programmes or activities – supported by the National Environment Agency (NEA) – initiated and conducted include the Happy Toilet Programme, Happy Toilet School Education programme for Preschools, STAR (Sustaining Toilets As Restrooms) Awards Programme, Eco-Assessor Programme and LOO (Let's Observe Ourselves) Carnival & Awards. RAS is a strategic partner in national community events like Clean & Green Singapore and is also a founding member of the World Toilet Organization and the Keep Singapore Beautiful Movement.

Glossary of Chinese Terms (In alphabetical order)

- The Shoppes at Marina Bay Sands
滨海湾金沙购物商城
- President Tan Puay Hoon
会长陈培芬
- Restroom Association (Singapore)
新加坡卫浴文化协会
- Happy Toilet Programme
康乐公厕计划
- Detect Feedback Eliminate Save (DFES) Smart Restroom Solutions
检测反馈消除节省 (测馈除省) 智能卫浴系统

ANNEX A

Happy Toilet Programme

The Happy Toilet Programme (HTP) was launched by Mr Lim Swee Say, the former Minister for the Environment on 1 July 2003. The HTP was developed and implemented by RAS with the strong support from the National Environment Agency (NEA).

The HTP is a star-grading initiative for public toilets which focuses on five main areas - Design, Cleanliness, Maintenance, Effectiveness and Satisfaction. Users will also leave the toilet happy, as the programme will ensure that they have the best experience, with all their needs met.

The cornerstone of the HTP is a grading system, based on minimum and progressive standards that start at 3 stars, to 4 stars, 5 stars and a maximum of 6 stars.

Application is open to all owners of public toilets in Singapore, anytime throughout the year. Once graded, the certification of quality has 12 months' validity. "Happy Toilets" will be promoted through the RAS website so that the public can identify star graded facilities.

3 stars (at least 60 out of 108 points) = Clean Restroom

- Facilities in working condition
- Provision of basic amenities i.e. hand soap, toilet paper, etc
- No odour, litter-free
- Reasonably dry floor and facilities
- Customer Satisfaction

4 stars (at least 86 out of 108 points) = Good Restroom

- Meet all the above-mentioned 3 stars' requirements
- Special delights and user-friendly facilities

5 stars (at least 96 out of 108 points) = Premium Restroom

- Meet all the above-mentioned 4 stars' requirements
- Eco-friendly facilities

6 stars (at least 104 out of 108 points) = Magnificent Restroom

- Meet all the above-mentioned 5 stars' requirements
- Adoption of technology to increase productivity and efficiency such as automated feedback system, odour monitoring and automated cleaning is required.
- All cleaning attendants completed the Singapore Workforce Skills Qualifications (WSQ) module in washroom cleaning.

For more details, please visit <http://www.toilet.org.sg/happytoilets>

ANNEX B

Detect Feedback Eliminate Save (DFES) Smart Restroom Solutions

The DFEC Smart Restroom Solutions is a joint initiative by five partners of the RAS namely Adsec Global Pte Ltd, Aqua Tech Pte Ltd, Convergent Smart Technologies Pte Ltd, Infinergy Systems Solutions Pte Ltd and Viso Pte Ltd.

The holistic DFES solutions consist of the following:

DETECT

- People Traffic sensor
- Ammonia Gas sensor
- Auto sensing
- Auto alert & notification

FEEDBACK

- Intuitive feedback system
- Fault & defect reporting
- Maintenance eChecklist
- Workforce management

ELIMINATE

- Ozone Water System (Environmental Friendly)
- Replaces the use of Chemicals/Detergents
- Highly effective against toilet odour

SAVE

- Dyson AirBladeV with HepaFilter Hand Dryer
 - Replaces the use of paper towels
 - Green Mark certified
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- URIMAT waterless urinal (upcoming product yet to be installed)
 - Unique odour trap technology with integrated cleaning system
 - Static or digital signage for advertisement