Green and Gracious Builder Scheme (GGBS) Version 2.1
Synergising Quality with Productivity

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GGBS Milestones & Achievements

Launch in 2009

Announcement of Mandatory Requirement in October 2013

Launch GGBS v2 in April 2014

Launch GGBS v2.1 in October 2016

Launch GGBS(SMC) in April 2014

Under Contractor Registry:
- A1 & A2 by 1 January 2015
- B1 & B2 by 1 January 2016

GGBS v2 focus on:
- Noise and Vibration
- Manpower Management

GGBS (SMC) tackles:
- Builders doing Landed projects

As of 5 Sep 16 there are:
- 407 certified builders under GGBS
- 3 certified builders under GGBS(SMC)
Outlines

- Objectives for GGBS Version 2.1
- Key changes
- Application process
- How certified builders can maintain/improve
Outlines

Objectives for GGBS Version 2.1

Key changes

Application process

How certified builders can maintain/improve
Objectives for GGBS Version 2.1

A. Align GGBS with productivity and quality
   - Raise awareness and encourage productive practices

B. Greater emphasis on Gracious Practices & Continual Improvement
   - recognising good practices to lead sub-contractors
Outlines

Objectives for GGBS Version 2.1

Key changes

Application process

How certified builders can maintain/improve
# Key Changes

## Key Changes in GGBS Version 2.1

1. Recognise and award dedicated points (3 points) for builders that use prefabrication technology and/or productive construction methods.

2. New Criteria: Incentivise GGBS without excessive fines (up to 5 points).

3. New Criteria: To recognise improvement in KPIs.

4. New Criteria: To include GGBS and/or GGBS (SMC) as one of the considerations during selection of contractors.

5. New Criteria: To review performance of GGBS at regular interval.

6. Increase weightage of Gracious practices from 50% to 55%.

7. Recognise Quality Mark projects and additional awards such as Construction Productivity Awards and Quality Excellence Awards under Bonus Points.
Key Changes

Version 2

- All innovations and exemplary practices share the 10 allocated points

Version 2.1

- Recognise and award dedicated points (3 points) for builders that use prefabrication technology and/or productive construction methods
- Under innovation and exemplary practices

To encourage/ increase the adoption of productive technologies eg. PPVC, PBU, BIM, CLT etc
<table>
<thead>
<tr>
<th>Version 2</th>
<th>Version 2.1</th>
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<tbody>
<tr>
<td>Points allocated under bonus points for recognition and/or awards for builder’s outstanding performance/achievement (maximum award of 5 points)</td>
<td><strong>Incentivise GGBS without excessive fines (up to 5 points)</strong></td>
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**Maximum of 5 points would be deducted for builders with excessive violations** and will be weaved in 4 areas, namely:
- Noise pollution (NEA)
- Poor housekeeping / Mosquito breeding (NEA)
- Water pollution (PUB)
- Unsafe structures/damage to public or neighbours’ properties (BCA or other relevant agencies).

Based on compound fines/stop work orders received in the past 12 months from the date of audit.
Key Changes

Version 2

• Points allocated under KPI for materials wastage and utilities consumption
• Does not award points for continual improvement

Version 2.1

• New criteria: To recognise improvement in KPIs
• Recognise and award points for continual improvement

To demonstrate continuous improvement in KPI on a year-on-year basis.
Based on average performance rating tabulated from submission by builders.
Key Changes

Version 2

• Not considered

Version 2.1

• New criteria: To include GGBS and/or GGBS (SMC) as one of the considerations during selection of contractors

To emphasise on consistent green and gracious practices across the construction industry
Key Changes

Version 2

- Require only regular briefing/sharing sessions

Version 2.1

- New criteria: To review performance of GGBS at regular interval

To encourage builders to review GGBS at organisational level with the involvement of top management
## Key Changes

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<th>Version 2</th>
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<th>Version 2.1</th>
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<tbody>
<tr>
<td></td>
<td>Points</td>
<td>Weightage</td>
<td>Points</td>
<td>Weightage</td>
</tr>
<tr>
<td>Green</td>
<td>50</td>
<td>40%</td>
<td>50</td>
<td>35%</td>
</tr>
<tr>
<td>Gracious</td>
<td>70</td>
<td>50%</td>
<td>70</td>
<td>55%</td>
</tr>
<tr>
<td>I&amp;E</td>
<td>10</td>
<td>10%</td>
<td>10</td>
<td>10%</td>
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<tr>
<td>Bonus</td>
<td>5</td>
<td>5%</td>
<td>5</td>
<td>5%</td>
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</table>

*Incentivise GGBS without excessive fines (up to 5 points)*

Weightage of Gracious practices has been increased from 50% to 55%. (Maximum possible points remain unchanged at 70 for Gracious.
Greater emphasis on Gracious practices.
Key Changes

Version 2

- Green Mark award (Gold plus and above)
- HR/CSR/other Environmental related awards

Version 2.1

- Recognition of more awards
- Eg. Quality Mark projects, Construction productivity award, Quality excellence award, Building Information Modelling Awards etc

Encourage doing things the first time right through emphasis on Quality => reduce re-work => reduce wastages and disamenities to public
Outlines

- Objectives for GGBS Version 2.1
- Key changes
- Application process
- How certified builders can maintain/improve
Application Process

- Effective date of Version 2.1: 20\textsuperscript{th} October 2016
- New application submitted after 20\textsuperscript{th} Oct 2016: Grace period of 6 months (19\textsuperscript{th} April 2017)
- Certified Builders (including renewal and recertification application submitted before 20\textsuperscript{th} Oct 2016): Transition period of 1 year will be provided (by 19\textsuperscript{th} Oct 2017)
Application Process

Renewal/recertification application (for certified builders) submitted or RSV conducted within this period can either choose version 2 or 2.1

New application (for new builders only) submitted can choose either version 2 or 2.1

Launch of version 2.1

Renewal/recertification application (for certified builders) submitted or RSV conducted within this period can only use version 2.1

New application (for new builders only) submitted can only use version 2.1

Before 20th Oct 16

20th Oct 16

19th Apr 17

19th Oct 17
Outlines

- Objectives for GGBS Version 2.1
- Key changes
- Application process
- How certified builders can maintain/improve
How certified builders can maintain/improve:

- Planning
- Implementation
- Review
- Maintain/Improve
Planning

**Top Management**
- Demonstrate commitment to GGBS eg. Providing necessary resources
- Implement GGBS at organisational level

**Team Formation**
- Formation of dedicated GGBS corporate team to implement GGBS at organisational level
- Eg. PM, QS, HR, safety officers, ECO etc
- Develop internal guidelines for GGBS

**Project level**
- Identify stakeholders eg. Project team members, sub-contractors
- Adapt and customise internal guidelines to suit project needs
Implementation

Dedicated GGBS corporate team to standardise direction and minimum requirement (internal guidelines)

Formation of Site/ Project GGBS team

Adapt and enhance the internal guidelines to suit project needs

Educate/ brief the stakeholders and implement on site (Engaging the stakeholders)

CONSISTENT IMPLEMENTATION
Review

Continual Improvement

- **External Feedback**
  - Eg. Sub-contractors, clients, suppliers, or even the public etc

- **Internal Feedback**
  - Eg. Engineers, safety officers, ECO, HR, PM etc

- **Analysis**

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Source: Image from [www.ingeniousgadgets.com](http://www.ingeniousgadgets.com)
Maintain/ Improve

Through regular reviews to identify gaps and to ensure consistent implementation. Top management is the push factor

- Feedback, sharing sessions, internal audits etc

Be innovative and gracious to the public

- Weightage allocated for Innovation & Exemplary Practices is high!

Attend GGBS workshop

- New version, new content for the workshop
New GGBS workshop

OLD (1/2 Day)
- Introduction to GGBS and GGBS (SMC)
- Site Visit

NEW (1 Day)
- Introduction of GGBS and GGBS (SMC)
- How to implement GGBS
- Site Visit
- How to improve GGBS
Thank you