ASSESSMENT SUMMARY FOR GREEN AND GRACIOUS BUILDERS AWARD

Company:

ITEMS	MAXIMUM POSSIBLE POINTS	POINTS SCORED	AWARD CATEGORY
Green Practices	50		
Gracious Practices	40		
Innovation	10		
Bonus Points	5		
Total	105		

SCORE	CATEGORY		
STAR	Above 90		
EXCELLENT	Above 75 to 90		
MERIT	Above 60 to 75		
CERTIFIED	50 to 60		

ASSESSMENT SCORE SHEET FOR GREEN AND GRACIOUS BUILDERS AWARD Company:

GREEN PRACTICES (50%)

GREEN PRAC	TICES CRITERIA	MAXIMUM POSSIBLE POINTS (50)	POINTS SCORED	FINDINGS/ OBSERVATIONS
Company Policy		Subtotal: 5		
Procedure/ Planning	Does the builder have procedures to inculcate and raise awareness of green best practices to all levels of staff? 1 point for setting up procedures that raise awareness, educate and inculcate green best practices across all levels of staff. 0.25 point for implementing any of the following measures: a) Briefing session b) Sharing session c) In house quiz d) Green campaigns	2 pt		
	Has the builder set specific goals and KPIs to address the various factors: a) Reduce / Reuse /Recycle b) Energy c) Environmental / Water d) Housekeeping & Air Quality 0.5 point for the specific goal or KPI that is set to address each of the factor stated.	2 pt		
Practices	Does the builder include "Green" as one of the considerations when selecting its suppliers and subcontractors? 1 point for including "Supplier/ subcontractor is conscious about green issues" or similar statement as a criteria during pre-qualification and evaluation of suppliers and subcontractors.	1 pt		
Reduce / F	Reuse / Recycle	Subtotal: 19		
Planning	Has the builder put in place procedures or measures to encourage recycling or reduction of construction waste and office waste? 1 point for setting up procedures to separate, recycle and reduce construction waste such as timber, plastic packaging. 1 point for implementing separation of construction waste on the site and arrangements to recycle construction waste. 1 point for implementing arrangements to recycle office waste such as paper.	3 pts		
	Is there a monitoring system of wastage on site? 0.25 point each for monitoring of the following wastage on site: a) Concrete wastage b) Rebar wastage c) Waste disposal cost d) Office waste recycled	1 pt		

GREEN PRA	CTICES CRITERIA	MAXIMUM POSSIBLE POINTS (50)	POINTS SCORED	FINDINGS/ OBSERVATIONS
KPI	Performance rating of waste on site a) Concrete Wastage b) Rebar Wastage c) Waste Disposal Cost - proxy to amount of waste generated Performance that meets/exceeds the industry KPIs: a) Concrete wastage (1.5 point) b) Rebar wastage (1.5 point) c) Waste disposal cost (1 point)	4 pts		
Technology	Is there any use of systems and technology to reduce waste: a) Formwork systems to reduce use of Timber (2 pt) b) Platform systems (to reduce use of scaffolding) (2 pt) c) Use alternative methods or systems to reduce masonry work (2pt) 1 point for using formwork systems that result in reduction of use of timber formwork to ≥ 70%. 2 points for using formwork systems that results in reduction of use of timber formwork to ≥ 90%. 1 point for using platform systems that result in reduction of use of scaffolding to ≥ 70%. 2 points for using platform systems that result in reduction of use of scaffolding to ≥ 90%. 1 point for using alternative wall systems that result in reduction of masonry work to > 70%. 2 points for using alternative wall systems that result in reduction of masonry work to > 90%.	6 pts		
Practices	Is there use of recycled and sustainable materials for non-structural applications? (e.g. cement replacements, aggregate replacements, etc) O.5 point for use of recycled and sustainable materials for each non-structural element. These could include: a) Drains b) Road kerbs c) Wheel stoppers d) Others (e.g. playgrounds, road base)	5 pts		
Energy		Subtotal:		
Procedure/ Planning	Is there a monitoring system for energy consumption on site? 0.5 point each for monitoring of the following energy consumption on site: a) Electricity consumption b) Diesel consumption	1 pt		
KPI	Performance Rating of energy consumption. KPIs include a) electricity consumption (For sites using AC Power) b) Diesel consumption (For sites using Diesel Generators) Performance that meets/exceeds the industry KPIs: a) Electricity consumption (2 point) b) Diesel consumption (1 point)	3 pts		

GREEN PRAG	CTICES CRITERIA	MAXIMUM POSSIBLE POINTS (50)	POINTS SCORED	FINDINGS/ OBSERVATIONS
Technology	Is there any use of energy-saving/efficient or "Green Label" appliances, equipment and/or devices? (both site and office environment) For minimum 50% usage in Site office • Energy efficient lightings 0.5 point for using T8 & PLC/s lightings (or other types of lighting with at least 60 lumens/watt). 1 point for using T5 lightings (or other type of lighting with at least 100 lumens/watt). • Energy efficient air conditioning systems Using Singapore's Energy Labeling Scheme-2 point for 4 ticks, 1.5 point for 3 ticks, 1 point for 2 ticks, 0.5 point for 1 tick. • Green Label appliances/ equipment Using the Singapore Green Labeling Scheme-0.5 point for using Green Label printers/ faxes & multifunctional devices.	4 pts		
	Is there use of alternative energy/fuels (e.g. solar for site office, biodiesel for construction plant)? 1 point for using solar cells for site office. 1 point for using biodiesel for construction machinery.	2 pt		
Practices	Do the sites use AC grid power supply instead of diesel generators? 1 point for partial usage of AC grid power supply. 2 points for full usage of AC grid power supply.	2 pt		
Environm	nental / Water	Subtotal:		
Procedure/ Planning	Is there monitoring of usage of water on site? 0.5 point each for monitoring of the following on site: a) Water consumption b) Total Suspended Solids Readings	9 1 pt		
KPI	Performance Rating of water consumption Performance that meets/exceeds the industry KPIs: a) Water consumption (2 points)	2 pt		
	Performance Rating of Total Suspended Solids (TSS) Readings 1 point for TSS reading below 40 mg/l. 2 points for TSS reading below 30 mg/l.	2 pt		
Technology	Does the builder have water saving or recycling equipment or devices (both site and office) to conserve water usage? E.g. Equipment to treat and recycle water for non-portable / construction use? Using water recycling equipment for useful purpose like washing of vehicles, housekeeping. 1 point for chemical type, 2 points for	3 pt		

GREEN PRA	CTICES CRITERIA	MAXIMUM POSSIBLE POINTS (50)	POINTS SCORED	FINDINGS/ OBSERVATIONS
	membrane type			
	For minimum 50% usage in Site office			
	 Water efficient fittings Using Water Efficiency Labeling Scheme – point for 3 ticks, 0.5 point for 2 ticks, 0.25 points for 1 tick. 			
Practices	Do the builder use environmentally friendly products (e.g. pesticides, cleaning products, etc) for its office and sites?	1 pt		
	1 point for using environmentally friendly products that are non toxic or biodegradable.			
Houseke	eping & Air Quality	Subtotal: 5		
Procedure/ Planning	Are there any in house procedures to encourage good housekeeping in construction sites?	1 pt		
	0.5 point for setting up procedures on housekeeping on the site.			
	0.5 point for designating a storage space to ensure that materials are properly stored on site.			
	0.5 point for implementing good management steps that encourages subcontractors to adopt good housekeeping measures.			
	Has the builder adopted measures to address dust generated from material storage and vehicles?	1 pt		
	 0.25 point for carrying out each of the following measures that mitigates the generation of dust: a) Cover dust generating materials during storage and transport. b) Provide water sprays to dampen dust generating materials during transportation/storage. c) Provide hard paving on main haul road. d) Spray main haul road with water. e) Control vehicle speed on site. f) Properly secure and cover all loads on vehicles before leaving the site. 			
	Has the builder adopted measures to address rubbish and refuse accumulation and collection?	1 pt		
	O.25 point for carrying out each of the following good practices on site pertaining to rubbish/refuse collection and disposal: a) Provide properly covered containers. b) Provide suitable designated refuse points. c) Inculcate good practice among the staff, including subcontractor workers. d) Store refuse that is pending removal in receptacles with close fitting covers.			
Practices	Are there planned regular maintenance of construction vehicles and machinery to reduce emission rates?	1 pt		
	1 point for implementing regular maintenance of construction vehicles and machineries.			

GREEN PRACTICES CRITERIA	MAXIMUM POSSIBLE POINTS (50)	POINTS SCORED	FINDINGS/ OBSERVATIONS
Does the builder appoint a designated personnel or controller to overhousekeeping and cleanliness on site? 1 point for appointing a designated site personnel to oversee housekeeping and cleanliness on site. The duties should incluregular inspection on the effectiveness of housekeeping measures.	ersee		

GRACIOUS PRACTICES (40%)

GRACIOUS P	PRACTICES	MAXIMUM	POINTS	FINDINGS/ OBSERVATIONS
		POSSIBLE POINTS (40)	SCORED	
Company	/ Policy	Subtotal:		
		4		
Procedure / Planning	Does the builder have an established policy to adopt gracious practices? Is the plan endorsed by top management? 1 point for establishing a policy that specify the adoption of gracious practices. The policy should be endorsed by top management. 0.25 point for specifying each of the following aspect of gracious practices: a) Accessibility b) Public safety c) Noise & vibration d) Communication e) Workforce management	2 pts		
	Does the builder have procedures to inculcate and raise awareness of gracious best practices to all levels of staff? 0.5 point for setting up procedures that raise awareness, educate and inculcate gracious best practices across all levels of staff. 0.25 point for implementing any of the following measures: a) Briefing session b) Sharing session c) In house quiz	1 pt		
	Does the builder have procedures in place to address (with regards to gracious practices): a) Continual improvement and feedback to management and site staff b) Communicating such procedures and requirements to suppliers and subcontractors 0.5 point for setting up a system of sharing of information and feedback between the management and staff with regards to gracious practices. 0.5 point for setting up a procedure to communicate gracious practices to suppliers and subcontractors.	1 pt		
Accessib	ility	Subtotal: 4		
Practices	Are the site accesses well signed? Is the access/entry into site generally clean and unobstructed?	1 pt		

GRACIOUS P	RACTICES	MAXIMUM POSSIBLE POINTS (40)	POINTS SCORED	FINDINGS/ OBSERVATIONS
	0.5 point for keeping the site entrance/ access properly maintained and unobstructed. 0.5 point for putting proper signage from entrance to site office to facilitate entry by visitors.			
	Has consideration been given to accessibility wheelchairs (e.g. use of temporary ramps)? 1 point for designing passageways/ walkways that include barrier free considerations.	1 pt		
-	Does the builder adopted measures to address possible causes of traffic obstruction?	1 pt		
	 0.25 point for implementing each of the following measures that address possible causes of traffic obstruction: a) Identify and address factors such as parking, location of rubbish skips, delivery routes. b) Arrange for traffic controllers to ensure smooth traffic in and out of site and guide the traffic during concreting operations to minimize inconvenience to other traffic users. c) Set restricted delivery times for the site so that heavy delivery vehicles would not cause obstructions, particularly during peak hours. d) Provision of reflective mirrors. Has the builder put in efforts to ensure sufficient and good signages around the construction site (For both motorists and pedestrians?) 0.25 point for implementing each of the following measures that ensure sufficient and good signages around the site: a) Put up signages and directional signs to guide motorists an pedestrians in situations of road/ traffic diversion. b) Ensure that existing road names, signboards, directional signs are not blocked by hoardings or construction works. Additional signages should be erected if blockage is unavoidable. c) Present signages in different languages. 	1 pt		
Public Sa	d) Provision of electronic road signs	Subtotal:		
r ublic 5a		7		
Practices	Does the site provide covered walkways around site (for passageways which are used heavily by general public)?	1 pt		
	1 point for providing covered walkways around the site.			
	Are the hoarding and walkways sufficiently designed, well-maintained and in good condition?	1pt		
	1 point for maintaining hoarding and walkways. Walkways should be clean, neat, well lit and have even platforms for ease of walking. Hoarding should be asthetically pleasing.			
	Do the sites provide full-height safety netting and catch platform to mitigate risk of falling debris?	1 pt		
	0.5 point for providing full height safety netting		n l	İ

GRACIOUS F		MAXIMUM POSSIBLE POINTS (40)	POINTS SCORED	FINDINGS/ OBSERVATIONS
	0.5 point for providing catch platform.			
	Has consideration being given to the provision of footpaths? E.g. 1) Is the width of the footpath/passage ways sufficient to cater for pedestrian volume/demand? 2) Is there provision of alternate footpath when the existing footpath or walkway is being used for the construction works?	1 pt		
	1 point for providing passageways around the construction site that are sufficiently wide to handle the volume of human traffic. Alternate route should be provided when the existing passageways are being used for construction works.			
	Are vehicular barriers provided for passageways located close or next to roads? (Public safety) 1 point for providing vehicular barriers at	1 pt		
	passageways located close or next to roads.			
	Is site safety information made clear to visitors on site? (Safety information could include the dos and don'ts on site, fire safety evacuation information, etc)	1pt		
	0.5 point for displaying safety information, including dos and don'ts on the site.			
	0.5 point for displaying fire and emergency evacuation routes on the site.			
	Are there comprehensive assessment and monitoring of surrounding buildings?	1 pt		
	point for carrying out comprehensive assessment and monitoring of surrounding buildings so as to prevent settlement, movement or damage to surrounding buildings.			
Noise & \	/ibration	Subtotal: 9		
Procedure/ Planning	Does the builder set specific goals and KPIs to address the various factors: a) Noise b) Vibrations	1 pt		
	0.5 point for the specific goal or KPI that is set to address each of the factor stated.			
	Does builder have procedures and standards to manage the piling subcontractors in terms of noise and vibrations?	1 pt		
	0.5 point for setting up a procedure to manage the noise and vibration level for piling works.			
	0.5 point for appointing a designated site personnel to conduct regular inspection on the effectiveness of noise control measures.			
	Are there any efforts done to minimise noise disturbance through careful scheduling of noisy activities?	2 pt		
	1 point for scheduling noisy activities in order to avoid sensitive time periods such as evenings, weekends and public holidays.			
	1 point for not working on Sundays and public			0

	MAXIMUM POSSIBLE POINTS (40)	POINTS SCORED	FINDINGS/ OBSERVATIONS
r put in place operational mitigate noise and vibrations? carried out to plan and locate e.g. vehicles, generators, etc) idents? ures to ensure that construction hery are properly maintained? ose panels, replace defective to train workers to handle fully to reduce impact noise? noise barriers for construction hery? (eg. tower crane and generating) mitigates and particular to the fully to reduce impact noise?	1 pt		
er have procedures, measures mitigate issues arising from night	1 pt		
nd construction works (where Iementing procedure to notify noisy work or permit-to-work			
ht construction works.			
se of measures or alternative ethods/machines to address ations?	2 pts		
using each of the following struction methods/ machines to and vibrations: sion piling. senerators. sher. atrolled wall saw. blitter.			
er install noise and vibration n and off site? (E.g. at property/building) nstalling noise and vibration ters on site	1 pt		
stalling noise and vibration ters off site (at neighbouring ing).			
	Subtotal: 7		
ave a policy on public as to residents / tenants town councils around te? ing up a policy that ensure pro- nication to the various segments nity around the site.	1 pt		
er send out letters to esidents to inform of key major works? etters send out to neighbouring ach of the following key	1.5 pt		
eside major letters ach of	nts to inform of key works? send out to neighbouring	nts to inform of key works? send out to neighbouring the following key	nts to inform of key works? send out to neighbouring the following key

GRACIOUS I	PRACTICES	MAXIMUM POSSIBLE POINTS (40)	POINTS SCORED	FINDINGS/ OBSERVATIONS
	b) Commencement of demolition work. c) Commencement of piling work. d) Diversion of traffic or disruption of parking. e) Other major works.			
	Is there a designated hotline for public to call? Do the banner and posters contain the hotline number?	1pt		
	0.5 point for providing a designated hotline for the public to contact the builder.			
	0.5 point for banner and posters containing hotline number.			
Practices	Are the banners and posters clearly visible to public?	0.5 pt		
	0.5 point for clearly displaying banners, posters and other publicity item to the public.			
	Does the site have a designated person to handle complaints and feedback and to coordinate with the project staff to improve the site activities?	1 pt		
	1 point for appointing a designated site personnel to handle complaints and feedback on the site. The duties should include supervising, coordinating complaints/ feedback and ensuring that valid complaints/ feedback are attended to.			
	Does the builder have guidelines and documents on the handling of feedback cases?	1 pt		
	0.5 point for setting up a guideline to handle feedback cases, particularly for common issues like noise and vibration.			
	0.5 point for keeping proper site record of feedback received. The record should include the follow up actions taken.			
	Does the builder adopt measures or procedures to minimise security concerns of neighbouring residents? This may include: 1) Encouraging workers participate in the "Workers on Watch" (WOW) programme administered by SPF. 2) Out of office security arrangements in place to mitigate security concerns when the site is not in operation.	1 pt		
	 0.5 point for implementing each of the measures to enhance security on site and in the neighbourhood of the site: a) Workers participate in the "Workers on Watch" programme administered by SPF. b) Set up out of office security arrangements to mitigate security concerns when the site is not in operation. c) Other suitable measures. 			
Workford	ce Management	Subtotal:		
Practices	Are site personnel and sub-contractors familiarised with the Award and what this means?	1 pt		
	0.5 point when site staff are familiar with the Green & Gracious Builder Scheme.			

GRACIOUS PRACTICES		MAXIMUM POSSIBLE POINTS (40)	POINTS SCORED	FINDINGS/ OBSERVATIONS
	0.5 point when sub-contractors' staff are familiar with the Green & Gracious Builder Scheme.			
Practices	Does the company show consideration and provide welfare to the workers? O.25 point for implementing each of the following measures: a) Provision of medical benefits. b) Provision of infrastructure for recreational activities. c) Provision of proper transport. d) Provision of uniforms. e) Regular cleansing of toilets. f) Career progression.	3 pts		
	Does the builder have a system to manage their workers? This may include: 1) Briefing of workers on dos and don'ts in and around site (e.g. behaviour around site, no loitering in public spaces)? 2) Setting up of disciplinary procedures. 3) Instructions clearly presented to workers, e.g. through handbooks. 4) Conducting tool box meeting. 0.5 point for implementing each of the measures stated.	2 pts		
	Has the builder achieved safety results better than the industrial average (based on AFR and ASR statistics)? 0.5 point for achieving results that is better than the Accident Frequency Rate (AFR) industrial average. AFR: No. of accidents per million man-hours worked. 2007 industrial average is 3.0 0.5 point for achieving results that is better than the Accident Severity Rate (ASR) industrial average. ASR: No. of mandays lost to accidents per million man-hours worked. 2007 industrial average is 257	1 pt		
	Does the builder have procedures, measures and/or rules to enhance on-site living conditions and mitigate issues which may arise from onsite housing (where applicable) 1 point for setting up on-site dormitories away from residential developments. 1 point for setting up house-rules to control possible disturbances, e.g. provision of food and banning of cooking on site. 2 points for providing 100% off-site accommodation	2 pts		

INNOVATION (10%) AND BONUS POINTS (5%)

INNOVATION	MAXIMUM POSSIBLE POINTS (10)	POINTS SCORED	FINDINGS/ OBSERVATIONS
Innovation	Subtotal: 10		
Has the builder adopted procedures or innovative use of technology and/or special construction methods to address environmental concerns, site challenges and/or to minimise the concerns of the public?	10 pts		
 0.5 point for the following innovations: a) Application of renewable energy sources in the site office. b) Greater use of greenery or conservation of trees on site. c) Improvement of indoor air quality in the site office. d) Improvement in the indoor visual comfort and lighting energy efficiency in the site office. e) Innovative construction method that reduce energy consumption during construction. f) Innovative construction method that reduce water consumption during construction. g) Innovative method to reduce air pollution, water pollution and noise pollution. h) Innovative methods to reduce waste generation during construction. 			

BONUS POINT	MAXIMUM POSSIBLE POINTS (5)	POINTS SCORED	FINDINGS/ OBSERVATIONS
Bonus Point	Subtotal: 5		
Has the builder received recognitions and/or awards (both public and private sector) in recognition of its outstanding performance / achievements? 1) No. of completed projects certified under Green Mark Gold Plus and above. 2) Awards 0.5 point for each project certified under Green Mark Gold Plus & above. 2 points for each environmental related award. 1 point each for other awards.	Up to 5 points		