

Supportable Solutions for Productivity Solutions Grant (PSG) for Environmental Services (ES) Industry*
(with effect from 1 April 2020 to 31 December 2020)

Name of Solution	Mode of Purchase	Support Level % (Up to)	Things to note	Solution Description
Equipment				
Cleaning				
All Terrain Litter Vacuum	Direct/Hire Purchase/Leasing	80	<u>Specifications</u> Vehicle must be able to operate in rough terrains such as roads, concrete, turf, mud etc. Grant cap: Up to S\$49,000 per unit	The equipment is a ride on, outdoor vacuum system that is able to travel and perform cleaning operations on multiple terrains, climb curbs and navigate slopes.
Anti-Stain Vortex Flushing Water Closet System	Direct/Hire Purchase/Leasing	60	Grant cap: Up to S\$600 per unit	Equipment must be rimless in design with a coating finishing built into the base material that prevents the build-up of mould, waste and dirt resistant without the need to use aggressive cleaners. Solution must be fitted with vortex like 360 degree flushing that cleans every spot minimising the use of cleaning efforts. Solution must be deployed in either commercial or industrial premises.
Autonomous floor cleaner/scrubber	Direct/Hire Purchase/Leasing	80	Grant cap: Up to S\$84,000 per unit	The autonomous robotic floor cleaner/scrubber integrates sensors, cameras and AI navigation to clean floors without human intervention.
Autonomous robotic vacuum sweeper / cleaner	Direct/Hire Purchase/Leasing	80	<u>Specifications</u> • Cordless Technology (wireless) • Operating time: minimum 2 hours • Vacuum bag /dust receiver capacity: at least 4 litres Grant cap: Up to S\$105,000 per unit	Equipment is able to sweep and vacuum dirt and dust on both hard floor and carpeted surfaces with no human intervention, for commercial or industrial use.
Battery pack vacuum cleaner	Direct/Hire Purchase/Leasing	60	<u>Specifications</u> • At least 30 minutes run-time per full charge • Cordless technology • Battery pack with carrying frame Grant cap: Up to S\$1,000 per unit	Cordless vacuum cleaner with battery pack in carrying frame (i.e. back pack) for cleaning work in the confined spaces. The equipment should enable continuous cleaning of floors/carpets for at least 30 mins per full charge.
Centralised Foam Soap Dispensing Reservoir	Direct/Hire Purchase/Leasing	60	Grant cap: Up to S\$2,000 per unit	Equipment to support automatic refilling of foam soap to at least 3 dispensers per toilet.
Combi system (jetting & vacuum drain cleaning truck)	Direct/Hire Purchase/Leasing	80	<u>Specifications</u> • At least 1,500L sludge holding capacity • Cost of chassis is not supported Grant cap: Up to S\$350,000 per unit	Equipment that is used to carry out high pressured jetting and suction functions during conservancy cleaning such as the cleaning of canals, pipes, drains and/or drop inlet chambers. System must be equipped with storage unit for dispensing of water for cleaning purposes and containment of waste water.
Escalator Cleaner	Direct/Hire Purchase/Leasing	80	<u>Specifications</u> The machine must consist of minimally the following: • Brushing, to remove embedded dirt in the grooves. • Vacuuming, for removal of dirt and water. Grant cap: Up to S\$35,000 per unit	The escalator cleaner can work in either dry or wet mode to clean escalators and travellers.
Handheld Mini 2-in-1 System (Vacuum and Scrubber)	Direct/Hire Purchase/Leasing	60	<u>Specifications</u> • Cordless Technology (wireless) • Covers at least 800sqm/hour • Solution tank capacity (>1L) Grant cap: Up to S\$4,500 per unit	Compact handheld 2-in-1 system which combines the high power and performance of a commercial scrubber with built-in water dispensing and vacuuming function. Equipment must be able to clean different types of hard floor and to be used in commercial or industrial premises.
Industrial Steam Cleaner	Direct/Hire Purchase/Leasing	60	<u>Specifications</u> The industrial steam cleaner should have at least • Steam pressure > 1 bar/120 degree Celsius • Tank capacity > 1 litre Grant cap: Up to S\$5,000 per unit	The industrial steam cleaner comes with powerful steam pressure for continuously cleaning of dirt removal and grease cleaning easily. Besides cleaning, it can performs disinfection such as killing pathogens and bacteria. The equipment is an eco-friendly way of cleaning through steam pressure without any use of chemicals and not harmful to the user or the environment.

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Equipment (cont'd)				
Cleaning (cont'd)				
Leaf blower	Direct/Hire Purchase/Leasing	60	Grant cap: Up to S\$1,000 per unit	Battery-powered leaf blower is designed to maximize efficiency for cleaning of medium to large sized areas.
Outdoor road sweeper	Direct/Hire Purchase/Leasing	80	<u>Specifications</u> • At least 1400mm of sweeping width • Hopper volume (>500L) Grant cap: Up to S\$280,000 per unit	The outdoor road sweeper that is able to provide efficient cleaning of the public roads, site roads, expressways, etc., with only one operator.
Ride-on carpet extractor	Direct/Hire Purchase/Leasing	80	<u>Specifications</u> • Liquid solution tank with minimum capacity of 100 litres; and • Recovery tank with minimum capacity of 100 litres. Grant cap: Up to S\$21,000 per unit	A ride-on carpet cleaning machine provides deep cleaning extraction technologies, with liquid solution to remove embedded dirt and debris for carpet flooring.
Ride-on cleaner/scrubber	Direct/Hire Purchase/Leasing	80	<u>Specifications</u> • Cordless Technology (wireless) • Covers at least 800sqm/hour • Solution tank capacity (>1L) Grant cap: Up to S\$98,000 per unit	Ride-on scrubber machine driven by 1 operator that provides consistent cleaning performance with run-time of least 3 hours.
Ride-on industrial sweeper	Direct/Hire Purchase/Leasing	80	Grant cap: Up to S\$98,000 per unit	Ride-on motorised industrial sweeper machine driven by 1 operator that provides consistent sweeping for outdoor and indoor use.
Smart Toilet Monitoring System	Direct/Hire Purchase/Leasing	80	<u>Specifications</u> The Smart toilet monitoring system must consist of the following components: • Consumables tracking • Manpower scheduling system The following add-on items may be supported (optional): • Human Traffic count • Odour sensing • Odour removal system • Worker attendance wearables • Cubicle usage tracking Grant Cap: Up to S\$70,000 per unit	The system, which utilises smart technologies, allows the monitoring and analysis of toilet conditions by premises owners and cleaning contractors. The system must provide ease of work to the cleaners, allow cleaning contractors in workforce management and premises owners visibility of the cleaning regime, and also to support the outcome-based contracting model.
Telescopic system for high ceiling cleaning	Direct/Hire Purchase/Leasing	60	<u>Specifications</u> • At least 2m reach; • Camera system • A RO/DI pure water system generator and pump (optional) Grant cap: Up to S\$2,500 per unit	Extendable rods that can reach at least 2m to do cleaning of walls, ledges, piping, etc. and equipped with camera system to inspect/check cleanliness levels.
Treated Water Generator for Cleaning Purposes	Direct/Hire Purchase/Leasing	80	Grant Cap: Up to S\$35,000 per unit	A unique set of equipment which produced treated water/ solution that is 100% chemical free and biodegradable. The treated water/solution must not contain any types of chloramine, no colour compounds and not producing any odours/ smell. The treated water/ solution must be safe to use for general cleaning purposes. The equipment is to be used in industrial or commercial premises. Equipment should not produce any residue and the use of the treated water should be rinse-free.
Walk behind cleaner/scrubber	Direct/Hire Purchase/Leasing	60	<u>Specifications</u> • Cordless Technology (wireless) • Covers at least 800sqm/hour • Solution tank capacity (>1L) Grant cap: Up to S\$2,500 per unit	The equipment is operated by 1 operator to provide consistent cleaning performance.
Walk behind sweeper	Direct/Hire Purchase/Leasing	60	<u>Specifications</u> • Cordless technology (wireless) • Covers at least 1000sqm per hour • Hopper volume (>30L) Grant cap: Up to S\$10,000 per unit	The walk-behind sweeper that is able to provide consistent cleaning sweeping performance, with only one operator.

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Waste Management				
Battery waste collection cart	Direct/Hire Purchase/Leasing	80	Grant cap: Up to S\$14,000 per unit	Operated by 1 worker, the equipment has the capability to facilitate the collection of municipal solid waste from individual refuse chutes. Examples of such capability include bin-lifting, towing, transporting etc.
Electric pallet transporter/stacker	Direct/Hire Purchase/Leasing	80	<u>Specifications</u> Only applicable for licensed cleaning, waste management and pest management companies Grant cap: Up to S\$14,000 per unit	Pallet with load capacity ranging from 1.2 ton to 2.5 ton, that is able to transport or stack the pallets, with only one operator.
Electric reach truck	Direct/Hire Purchase/Leasing	80	<u>Specifications</u> Only applicable for licensed cleaning, waste management and pest management companies Grant cap: Up to S\$28,000 per unit	Reach truck with load capacity ranging from 1.2 ton to 2.5 ton, that is able to reach loads located high up in racks, with only one operator.
Engine/Electric- powered forklift	Direct/Hire Purchase/Leasing	80	<u>Specifications</u> Only applicable for licensed cleaning, waste management and pest management companies Grant cap: Up to S\$84,000 per unit	Forklift with load capacity from 1.5 ton to 10 ton, that is able to lift, move and/or stack materials, with only one operator.
Industrial crusher/shredder	Direct/Hire Purchase/Leasing	80	<u>Specifications</u> • Treatment capacity of at least 0.5 tonnes/hour Grant cap: Up to S\$210,000 per unit	Machine equipped with cutting or shearing or crushing system(s) to reduce the volume of solid waste/recyclables.
Mobile/static refuse bin washing system	Direct/Hire Purchase/Leasing	80	<u>Specifications</u> The system, comprising key components such as: • bin lifter • An enclosure compartment for washing of bins. Grant cap: Up to S\$280,000 per unit	The system is designed to lift and wash the waste bins automatically with only one man needed to operate the system.
On-site food waste recycling system	Direct/Hire Purchase/Leasing	80	<u>Specifications</u> System must comprise of: • food waste digester • In Feed station • conveyance system • holding tank (optional) • loading cell (optional) • in-sink grinder (optional) Minimum treatment capacity: 100kg per day. Grant cap: Up to S\$350,000 per unit	The food waste recycling system with the provision of the in-sink-grinder/ in-feed station is able to convert recycle food waste into organic fertilisers/ compost/ discharge in liquid form. It will reduce the needs for separation, transportation and collection of these food waste for disposal.
Plastic Recycling System	Direct/Hire Purchase/Leasing	80	<u>Specifications</u> System must comprise of: • Shredder • Extruder • Silo • Gravity Separator (optional) • NIR polymer separator (optional) Grant cap: Up to S\$350,000 per unit	The plastics waste recycling system with the provision of automated sorting, friction cleaning, and extrusion technology is able to process polymer streams (i.e. PET, LDPE, HDPE or PP) into high quality recycled plastic compounds such as processed pellets or flakes.

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Waste Management (cont'd)				
Plastics washing system	Direct/Hire Purchase/Leasing	80	<p><u>Specifications</u></p> <ul style="list-style-type: none"> • A plastic washing line must include: <ul style="list-style-type: none"> - a shredder or granulator(optional) - washer - separation tank - drying system • Minimum treatment capacity of 1,000kg per hour. <p>Grant cap: Up to S\$350,000 per unit</p>	A plastic washing line is used to wash and convert dirty plastic materials into dry clean plastics suitable for recycling.
Side-loader waste collection system	Direct/Hire Purchase/Leasing	80	<p><u>Specifications</u></p> <ul style="list-style-type: none"> • Minimum Compaction Ratio: 3 • Minimum Compactor Volume: 15 cubic metres • The compatible bins must be compliance to EN 12574 or equivalent with a minimum bin capacity of 1800L. • Cost of chassis is not supported <p>Grant cap: Up to S\$168,000 per unit</p>	The side loader system, which comprises of a side loading compactor body mounted onto a vehicle chassis and the use of compatible collection bins, allows the driver to remotely operate the collection process in the cabin. The collection vehicle must be fitted with an on board camera system for ease of visibility of remote side loading operation and safety, a tonnage monitoring system for the tracking of tonnage of waste/recyclables collected in each premises.
Smart Baler System	Direct/Hire Purchase/Leasing	80	<p><u>Specifications</u></p> <p>The Smart Baler system must be able to:</p> <ul style="list-style-type: none"> • handle high volume • allow hand-free automatic bailing • provide variable bale length control • conveyor feed compatible <p>Grant cap: Up to S\$140,000 per unit</p>	The equipment using sensors to detect and compacts materials automatically to facilitate the transportation of the materials.
Smart litter bin with compactor function	Direct/Hire Purchase/Leasing	60	<p><u>Specifications</u></p> <ul style="list-style-type: none"> • Integrated with fill- level sensor(s) and communication system(s) • Minimum Bin Capacity: 120 litres <p>Grant cap: Up to S\$4,000 per unit</p>	The equipment should allow Users to monitor bin fill levels with multiple fill level settings, send notifications to collectors when bins are reaching capacity and preferably with software to allow Users to gather data for trend analytics.
Smart mobile/static compactors	Direct/Hire Purchase/Leasing	80	<p>Grant cap: Up to S\$84,000 per unit</p>	Waste-handling system integrated with smart features to enable on-demand waste collection. The equipment must minimally be equipped with sensors such as fill-level or weight monitoring system which allows operators and premises owners to monitor and react to its usage, efficiency and fill level to enable on-demand waste collection.
Smart Waste Oil Collection System	Direct/Hire Purchase/Leasing	80	<p><u>Specifications</u></p> <ul style="list-style-type: none"> • Oil must be transferred directly from fryer to waste oil containment tank without an intermediate caddy • Containment tank must be equipped with fill-level sensors, data management system and diagnostics functions <p>Grant cap: Up to S\$63,000 per unit</p>	The Smart Waste Oil Collection System, which is equipped with diagnostics, fill-level sensors and data management system, transports waste oil from the fryer to the waste oil containment tank with minimal human intervention.

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Digital Solution				
Fleet Management System - ES Sector				
Fleet Safety & Management System	Subscription/ Leasing	80	<p>Solution provider: SmartComm Electronics Pte Ltd</p> <p><u>Available packages</u></p> <ul style="list-style-type: none"> • Fleet Safety & Management System Version 1 - Package (Standard) (Qualifying cost: up to S\$4,750 per system) • Fleet Safety & Management System Version 1 - Package (Standard with ADAS & DSM System) (Qualifying cost: up to S\$5,750 per system) 	<p>IVMS is a powerful fleet management software tool that provides real-time video and GPS information for time and motion study to increase productivity and lower operating costs. Built on analytics in the backend system, it is capable to generate a host of reports useful for fleet managers and decision makers. Coupled with Telematics Sensors ranging from temperature, driver identification, RFID, water flow, ultrasonic, weight and video, the solution helps companies to fulfil respective fleet management needs.</p>
iTrack Fleet Management System	Subscription/ Leasing	80	<p>Solution provider: Pivotal Pte Ltd</p> <p><u>Available packages</u></p> <ul style="list-style-type: none"> • iTrack Fleet Management Version 2.8.8 - Package (iTrack Personal) (Qualifying cost: up to S\$650 per system) • iTrack Fleet Management Version 2.8.8 - Package (iTrack Personal - Smartphone) (Qualifying cost: up to S\$350 per system) • iTrack Fleet Management Version 2.8.8 - Package (iTrack Asset Management) (Qualifying cost: up to S\$650 per system) • iTrack Fleet Management Version 2.8.8 - Package (iTrack Fleet Management Premium ES) (Qualifying cost: up to S\$1,660 per system) • iTrack Fleet Management Version 2.8.8 - Package (iTrack Vision) (Qualifying cost: up to S\$6,200 per system) 	<p>iTrack Fleet Management System offers GPS Tracking features to track location of vehicles, automate and monitor route taken with optimisation to improve efficiency of the delivery services. It helps companies to better plan and control the fleet journey, reducing cost, improve fleet utilization through its real-time map visualisation.</p>
Solotracking3G Solution	Subscription/ Leasing	80	<p>Solution provider: Solo Pte Ltd</p> <p><u>Available packages</u></p> <ul style="list-style-type: none"> • SoloTracking3G for ES Sector Version 2 - Package (with 3G) (Qualifying cost: up to S\$6,018.80 per package) 	<p>Solotracking3G solution is a visualized fleet management and deployment system in the market that has been servicing thousands of vehicles. Leveraging on 4G mobile network, the solution offers situation-awareness and makes use of multi-dimensional data to boost up operation efficiency and better overview monitoring on the status of fleet management.</p> <p>The solution's features include real-time tracking of location of fleet, fuel and mileage consumption, dynamic routing and planning, notification alert with geo-fencing in place to ensure vehicles are within defined areas and over speed detection of vehicles in event of speeding.</p>
Waste Tonnage Monitoring				
Baron Weighing System	Subscription/ Leasing	80	<p>Solution provider: Beng Hock Mechanical Engineering Pte Ltd</p> <p><u>Available packages</u></p> <ul style="list-style-type: none"> • Baron Static load cell – 4 points (Qualifying cost: up to S\$20,280 per package) • Baron Static load cell – 6 points (Qualifying cost: up to S\$21,280 per package) • Baron Static load cell – 8 points (Qualifying cost: up to S\$23,280 per package) • Baron On-board static weighing for hooklift (Qualifying cost: up to S\$24,280 per package) • Baron Dynamic load cell for bin lifter (Qualifying cost: up to S\$32,780 per package) 	<p>Baron Weighing System includes its fleet management module for real-time tracking for its fleet vehicles and monitoring of trash level of bins. This solution features includes: route optimisation, monitoring of bin collection status, time and cost analysis based on traffic to provide a complete solution for the waste management company.</p>

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Digital Solution (cont'd)				
Workforce Monitoring & Reporting Management				
iREP Workforce Management System	Subscription/ Leasing	80	<p>Solution provider: Gabkotech Innovations Pte Ltd</p> <p><u>Available packages</u></p> <ul style="list-style-type: none"> • iREP Workforce Management System Version 2 – Package (Basic) (Qualifying cost: up to S\$11,500 per package) • iREP Workforce Management System Version 2 – Package (Essential) (Qualifying cost: up to S\$16,500 per package) • iREP Workforce Management System Version 2 – Package (Advanced) (Qualifying cost: up to S\$23,000 per package) • iREP Workforce Management System Version 2 - Package (Professional) (Qualifying cost: up to S\$28,000 per package) • iREP Workforce Management System Version 2 - Package (Comprehensive) (Qualifying cost: up to S\$36,800 per package) 	iREP Workforce Management System is a mobile reporting, maintenance tracking and monitoring system which allows all the service aspects to be integrated using mobility from planning, development and delivery of services either to the organisation itself or to third parties. Within the service framework in this application, it allows mobile reporting, maintenance tracking and monitoring work progress to meet quality standards. It also in a way helps to manage the dynamic workforce and raise productivity for the industry.
Konnect Digital Software	Subscription/ Leasing	80	<p>Solution provider: Lexikon Pte Ltd</p> <p><u>Available package</u></p> <ul style="list-style-type: none"> • Konnect Digital Software (Qualifying cost: up to \$35,000 per package) 	Konnect Digital Software is a workforce management system which comprises of following modules: CRM, Sales, Operational (Job Order) via desktop & mobile application and HRM, launched since 2018 with the objective to facilitate and streamline the operational and administrative process in the industry.
V3Nity-WAM (Workforce Assignment & Mobility System)	Subscription/ Leasing	80	<p>Solution provider: V3 Smart Technologies Pte Ltd</p> <p><u>Available packages</u></p> <ul style="list-style-type: none"> • V3Nity-WAM (Workforce Assignment & Mobility System) Version 3 – Package A (Qualifying cost: up to \$9,800 per package) • V3Nity-WAM (Workforce Assignment & Mobility System) Version 3 - Package B (Qualifying cost: up to \$14,000 per package) • V3Nity-WAM (Workforce Assignment & Mobility System) Version 3 - Package C (Qualifying cost: up to \$21,800 per package) • V3Nity-WAM (Workforce Assignment & Mobility System) Version 3 - Package D (Qualifying cost: up to \$28,400 per package) • V3Nity-WAM (Workforce Assignment & Mobility System) Version 3 - Package E (Qualifying cost: up to \$33,800 per package) 	V3Nity-WAM (Workforce Assignment & Mobility System) offers an integrated solution to weave field workers and schedules into a tightly-functioning and optimised taskforce for day-to-day operation. WAM is a quality management tool for the assignment of daily work routines of environmental and facilities management services which assist to automate the daily field workers' operational tasks, monitoring of job status, records and reports on work done within the space of internal resources optimisation, governmental regulations and compliances requirements.

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