

Such systems have been deployed and are presently operating satisfactorily without maintenance for several years at Wanawasala, Boy's town and Blue Water's Hotel Level Crossing at Wadduwa. This system developed entirely out of Sri Lankan expertise has been found to be a suitable, durable and reliable system for operation in Sri Lanka at a fraction of the cost of a similar imported system.

Automated Vehicle Park Management System

Parking of vehicles has become a major issue in recent times in Sri Lanka, particularly in and around major cities. To overcome this, several vehicle parks have been planned at various locations and are managed manually, or with electronically operated barrier gates. All such electronic systems are imported and cost millions of Rupees each.

The largest vehicle park in Sri Lanka was constructed at Kandy with a parking facility to accommodate 900 vehicles. This park has 6 entry points and 4 exit points. The Engineering Design Centre (EDC) of the University of Moratuwa had the privilege of designing and developing this first locally developed computerized and automated Vehicle Park Management System (VPMS) in Sri Lanka.

In this system, issuing of tickets at entrances, opening and closing of barrier gates to control the flow of vehicles, calculation of parking fees under a pre-determined tariff structure have been computerized and automated.

It also comprises infra-red vehicle sensors, motorized barrier gates controlled and interfaced by computers.

**Engineering Design Centre,
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Development and adaptation of technologies for SMEs

Development of suitable devices for improving worker productivity and quality of tea made

Harvesting and pruning are considered to be labour intensive operations in tea cultivation. Fertilizer losses have also been high in young tea due to poor ground cover and surface application. With indepth studies undertaken, a selective tea harvester, collapsible tea plucking basket, pruning machine and a deep fertilizer applicator have been designed, patented and first two inventions commercialized for increasing worker productivity, reducing cost of production and enhancing quality of made tea.



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