1. ASSA Recognition Award

1.1 The ASSA Recognition was first introduced by the Employees Provident Fund (EPF) of Malaysia in 2015. The purpose of the Award is to recognise ASSA member organisations' achievements.

1.2 The criteria and categories for the ASSA Recognition Award are as follows.

No.	Categories of Recognition	Description of the Categories
1.	Innovation Recognition Award	Creation of an innovative technology, product or service which has led to improvements in services or products.
2.	Transformation Recognition Award	A practice that has resulted in improvement in the overall effectiveness, efficiency, and success of the organisation.
3.	Customer Service Recognition Award	Organisations that have implemented successful customer service strategies which are able to meet customers' expectations in terms of delivery and quality of service.
4.	Continuous Improvement Recognition Award	Organisations that are in a never-ending effort to expose and eliminate root causes of problems. It usually involves many incremental steps towards improvements rather than one overwhelming innovation.
5.	Strategic Communication Recognition Award	Organisations that have pushed the boundaries when it comes to their communications strategy in order to ensure they truly engage with their members using various communication channels.
6.	Information Technology Recognition Award	Organisations that run their business using effective and reliable technologies that are essential to drive efficiency and productivity, and improve organisational outcomes and performance.
7.	Insurance Coverage Recognition Award	Insurance and social security schemes that have developed their proposition with a clear focus on retirement, health and meeting members' needs.
8.	Financial Literacy Recognition Award	Organisations that have introduced and provide advisory services on financial literacy and retirement planning to address issues on adequacy of members' savings for retirement.

1.3 The write-up should include the following:

WRITE UP TEMPLATE

CATEGORY	:	**Innovation Recognition Award**
ORGANISATION	:	**Social Security Organisation Malaysia**
CONTACT PERSON	:	**Dr Hafez bin Hussain / Dato' Sri Dr. Mohammed Azman bin Dato' Aziz Mohammed**
NAME OF PROJECT	:	**Neuro Robotics Rehabilitation & Cybernics Centre located at Tun Razak Rehabilitation Centre, Melaka**
OBJECTIVE AND NATURE OF PROJECT	:	Social Security Organization (SOCSO) in collaboration with Cyberdyne Inc. Japan has established the Neuro Robotics Rehabilitation & Cybernics Centre in November 2018 to offer the state-of-the art Cybernics HAL® (Hybrid Assistive Limb) technology as a treatment for functional improvement of patients with cerebral, nervous and muscle disorders including spinal cord injury and cerebral embolism.
WHY IT SHOULD BE RECOGNISED	:	• HAL® (Hybrid Assistive Limb) Robot Suit is the world's first wearable cyborg-type robot that is developed by Cyberdyne Inc. Japan for the treatment of paralysis and weakening of limbs. • Malaysia is the fourth country in the world and the first in the ASEAN region to offer Cyberdyne HAL treatment to patients at the Neuro-Robotics Rehabilitation and Cybernics Centre in November 2018. It is currently the largest cybernics treatment centre out of Japan, consisting of 24 units of HAL Robot Suits. • The Neuro-Robotics Rehabilitation and Cybernics Centre serves as regional referral hub for cybernics treatment and professional training in South-East Asia. • SOCSO is the distributor of Cyberdyne HAL ® products in the Middle East-South Asia-South East Asia Region (MESASEA).
SUMMARY OF THE PROJECT	:	The cybernics treatment is a revolutionary robot treatment system that combines interaction between man, machine and information to improve, enhance, and support the wearer's limb mobility function. It will regenerate the patient's own brain-neuro-physical functions through the signals interaction between the human and robot. This in turn, accelerates the learning process of signals from the brain that enables muscles to move the paralysed leg, resulting in dramatic changes in patient's mobility functions. The Cyberdyne HAL treatment supports early stage rehabilitation by providing intensive, task-oriented and repetitive training to the patients. This way, the treatment will facilitate faster and greater recovery. In the healthy body, each muscle is able to receive signals destined from the brain to it and move as strongly and fast as intended. However, injuries to the nervous system (brain and spinal cord) often cause transmission disruptions of brain signals to the muscles for movement generation e.g. walking. Signals sent to muscles by the brain leak on the skin surface as very faint signals, so called "bio-

electric signals [BES]. Cyberdyne HAL Robot Suit can detect this weak bio-electric signals through the electrode or detectors attached on the surface of the leg muscles and then analyse the signal through the control system on the robot suit. This means that even though the leg muscles cannot respond to the brain signal to walk, the robot suit can accelerate the learning process of the brain and muscles to move the leg again. By consolidating various information, HAL® recognizes what sorts of motions the wearer intends and assist the wearer's intended motions by exerting bigger power than he or she ordinarily exerts.

There are three types of Cyberdyne HAL rehabilitation treatment available at this Centre, HAL Lower Limb Type, HAL Single Joint Type and HAL Lumbar Type. HAL Lower Limb Type is a robotic suit that helps the patient to regain the walking ability while HAL Single Joint Type is for the strengthening of the arm and knee joints. Whereas, HAL Lumbar Type is to strengthen the lumbar muscles and increases the ability to perform industrial-type activities such as lifting loads.

Since November 2018 to date, **more than 100 patients** have undergone Cyberdyne HAL rehabilitation treatment at the Neuro-Robotics Rehabilitation and Cybernics Centre. Most of these patients suffered from spinal cord injury or stroke. The Cyberdyne HAL rehabilitation program involves therapy sessions between 60 to 90 minutes a day, three to five days a week for 12 weeks, depending on the condition and problem of each patient.

The revolutionary medical technology for rehabilitation offered at this Neuro-Robotics Rehabilitation & Cybernics Centre is the result of SOCSO's long-term vision and relentless efforts in achieving continuous improvements and innovations. The establishment of the centre enhances not only the reputation of SOCSO as the leading social security provider in the country but also elevates Malaysia's image.

Attached are photos of patients undergoing the cybernics treatment:


NEURO-ROBOTICS REHABILITATION
AND
CYBERNICS CENTRE
POWERED BY CYBERDYNE INC.


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