EXECUTIVE SUMMARY

TITLE	:	ARTIFICIAL INTELLIGENCE FOR SMES (AI4S) PROGRAM (JUNE-SEP 2021)
OBJECTIVE	:	To create awareness and promote AI-based Machine Vision technology which is a key element of I4.0
IMPACT TO BUSINESS	:	i. To transfer 'AI-based machine vision' knowledge to 100 SMEs by 2021 ii. Proliferation of EEPN's Plugfest programmes to nationwide iii. Bring big business and SMEs together "under one roof" and promote electrical and electronics sector.
DURATION	:	July-Oct 2021
VENUE	:	Kuala Lumpur/Online
TOTAL COST	:	**RM25,000**
BUDGET	:	MPB - EEPN
RECOMMENDED BY	:	
Comment/ Signature by PCT	:	

Artificial Intelligence for SMEs (AI4S) Program

1.0 Purpose

The purpose of this paper is to request approval from Board of Management (BOM) to conduct Intel Artificial Intelligence for SMEs (AI4S) Program with the total estimated cost of **RM 25,000.00** using the SPC2.0.

2.0 Background

EEPN established under MPC has the charter of enhancing the competitiveness of our E&E industry; particularly in increasing the productivity, capability and competency of the E&E subsector. One of the key focus areas is to create value towards the Industry 4.0 ecosystem and EEPN has conducted Plugfest 1.0 IIOT and Plugfest 2.0 AIOT. This programme aimed to kick-start the SMEs to embark on the Industry 4.0 journey in a simple way, yet with great impact that the engineer have to conduct proof of concepts (POCs) back to their factory.

Hence, EEPN, MPC, MIDA and INTEL would like to accelerate this initiative through Intel's sponsoring on the Artificial Intelligence for SMEs (AI4S) starter kits. This programme's objective is to transfer AI-based Machine Vision knowledge to 100 SMEs by 2021 with proliferation nationwide. This six half-days hands-on workshop aims to educate and empower the participants to able to adopt machine vision system in their work environment, upon completion of the workshop.

The starter kit (hardware and software suite) will be wholly developed by the Technical Principal, which comes complete with the workshop package. The Technical Principal will also provide coaching resources to assist participants in developing their Proof of Concept (POC) for machine vision systems.

3.0 Objective

This workshop aims to achieve the following specific objectives:
  i. To create awareness and promote AI-based Machine Vision technology which is a key element of I4.0
  ii. To support, coach, prepare and enable participants to carry out AI-based Machine Vision project within their company using the Plugfest 2.0 starter-kit.
  iii. Each participant will be able to present the project outcome within 6 weeks, upon completion of workshop.

4.0 MPC Roles and Scope of Work

Among other things, the MPC roles in the AI4S workshop are as follows:

a) <u>Partnering with Technical Principal to:</u>
- Planning of the entire activities leading to the actual event day
- Design the program materials and publications
- Facilitate promotional and invitation activities
- Manage communications with all stakeholders and participants
- Monitor progress with respect to program timelines
- Ensure that venue and facilities are set-up to host the event (venue can be actual classroom/virtual classroom)

b) <u>Actual event day management</u>
- Assign a dedicated program coordinator to be on-site, to manage the actual event day
- Ensure that all activities related to the actual AI4S workshop are performed as planned
- Assign the necessary resources to ensure overall success

5.0 Output

The output expected from the participants is to developed and established Proof of Concept (PoC) project which includes data acquisition and remote monitoring capability to improve productivity by each company participated.

AI4S Milestones

Milestones	Progress	2021										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Launching Event (27th Jan 2021)	0%	X										
Company signed up for the programme and agreement	5%		X	X								
Company received Starter Kits	10%		X	X								
1st, 2nd & 3rd training event	20%			X	X							
4th & 5th training event						X						
Registered project in PMS	30%			X	X	X						
Company submitted POCs project proposal	40%				X	X	X	X				
Company completed 50% of POCs	70%					X	X	X	X	X		
Company fully completes POCs	90%						X	X	X	X	X	X
Submission of report & Video	100%							X	X	X	X	X

7.0 Actual Spending for Feb – May 2021

The table below shows the overall budget for the programme

#	Activity	Cost per unit (RM)	Total (RM)
1	Food Voucher For participants, secretariat, and trainers	Workshop 1 : RM30 x 29pax = RM870 Workshop 2 : RM30 x 40pax = RM1200	2,070.00
2	Lead Facilitator	RM3000 x 2 workshops	6,000.00
3	Facilitator	RM2500 x 2 workshops	5,000.00
		TOTAL	**13,070.00**

8.0 Estimated Cost for July-October 2021

The table below shows the budget for June-Sep 2021 of the programme

#	Activity	Cost per unit (RM)	Total (RM)
1.	Food Voucher For participants, secretariat, and trainers)	RM30 x 50 pax x 2 workshops	3,000.00
2.	Lead Facilitator	RM3,000 x 4 months	12,000.00
3.	Facilitator	RM2,500 x 4 months	10,000.00
		TOTAL	**25,000.00**

9.0 Approval from BOM

The consideration and approval of the Board of Management (BOM) is sought for to conduct Artificial Intelligence for SMEs (AI4S) Program with the total estimated cost of **RM 25,000** using the SPC2.0 and Operational budget.

Prepared by:	Reviewed by:	Approved by:
Nurul Nadia Zainal Adnan	Lee Wan Wei	Dr. Mohamad Norjayadi Tamam
Project Manager	Programme Manager	Director
Date: 22 July 2021	Date: 22 July 2021	Date: 23 July 2021