UNIVERSITI TEKNOLOGI MARA

Programme and Abstracts

PIMES

PLANTATION MANAGEMENT EXHIBITION & SEMINAR

15th December 2018

Faculty of Plantation and Agrotechnology
Universiti Teknologi MARA
Melaka Branch, Jasin Campus
77300 Merlimau, Melaka, Malaysia

DEAN PREFACE

Assalamualaikum Warahmatulllahi Wabarakatuh

My heartiest congratulations go to the Committees for successfully organized PIMES September 2018. PiMES September 2018 enables lecturers and panels from strong industrial background to reflect and share significant ideas, experiences and research findings in the workplace and in partnerships. It is also hoped to encourage collaboration among the lecturers and enhance the quality and performance of the faculty. The research findings derived from this substantial event shall indicate the commitment of lecturers not only in teaching, but also in striving to unfold new knowledge and processes that will benefit the nation. The efforts of our lecturers need to be further extended to a wider audience so that the nation will benefit from the research findings. It is also hoped that, the proceedings will trigger serious thought and more robust research in the field of education as well as plantation and technology so as to help Malaysia achieve Vision 2020.

As we know, agriculture production has increased tremendously today because of the demand from various sectors in the world. To meet the challenges of increasing food demand, techniques and ways should be created to improve productivity, profitability and sustainability of the agricultural system. Industrial agricultural system has led to irretrievably changes in the landscape diversity, soil quality, environment integrity, and natural resource base. This has resulted major questions and curiosity worldwide in relation to the sustainability of agricultural production system. The most significant damage to natural ecosystems and the environment was caused by habitat conversion and corresponding climate change, loss of biodiversity and ecosystem functions, soil erosion and degradation, and pollution from fertilizers and pesticides. Concepts in plant protection have changed in past decades from exclusion or destruction of pest to pest management. Serious problems with pesticides, rapid development of pest resistance, environmental effects of pesticides, and high costs led to development of new approaches and techniques in pest management based on improved knowledge of pest dynamics and their natural enemies, and the interaction between the pest and the crop.

It remains only for me to thank all those who have helped to make this events such a great and wonderful success. Much appreciation is due to the board editor, and reviewers of all papers submitted as well as to all authors whose ideas and contributions ensured rich and lively discussion during the various sessions.

DEAN.
Assoc Prof Dr Asmah Awal

INTRODUCTION

The PiMES committee and UiTM (Melaka), Jasin Campus residents are very pleased to welcome all participants in the Plantation and Management Seminar (PIMES) which is organized by Faculty and Agrotechnology.

PiMES aims to give an exposure to the students about the procedure to make a poster by extracting information from their final year project. This seminar will sharpen their communication skill as well as they can exchange and share their research result, projects, experiences and new ideas related to all aspects of studies in plantation management and agribussiness, plant sciences, soil sciences, plant protection, plant biotechnology and agricultural engineering. We sincerely hope that you will enjoy and return home with plenty of inspiration to improve agro-industry plantation practices and research activities.

PLANTATION MANAGEMENT EXHIBITION AND SEMINAR 2018 (PiMES)
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SURVEY ON FARM TRACTOR (JOHN DEERE) TOTAL COST IN FIELD FFB EVACUATION. A CASE STUDY IN FAR EAST HOLDING BERHAD

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ABSTRACT

Estate Mechanization is becoming more important in overcoming labor shortage and enhancing labor productivity. That are more type of mechanization been used in plantation example is a farm tractor to easy the process evacuate the product from in-field to the mill). This study focus on survey the total cost in-field FFB evacuation. The study was conduct Far East Holding, Ladang Sungai Gayung, Pahang. The objective of this study is to study the total cost of FFB evacuation by tractor per year in field, factor that influence total cost of farm tractor per year and to study the effectiveness and efficiency of total cost toward the tractor operation. The farm tractor used is John Deere 5715 model. 89hp. Fixed cost like depreciation, tax and insurance not be calculated because this estate use old tractor. This study more focusing to the total operating cost which is Fuel, lubricants, repair, maintenance and labor. The higher total operating cost for year 2017 is at February which is RM 6442 because tractor was breakdown and go to workshop. Total repair for this tractor at this month is RM 5645 just for spares and RM 269, RM528 for servicing and lubricants. Based on 4 years data analysis, it shown 2017 is the highest operating cost which is RM 52273 and 2016 is the lowest operating cost with RM 37519. Based on the data analyse it shown that more life span of tractor, more expenses of total operating cost to be spent to maintain the farm tractor in good condition and to running maximize to increase the profitability of the company.

Keywords: operating cost, FFB evacuation, farm tractor, repair, fuel.