MDSG Research Group
Thailand Chapter

CONFERENCE PROGRAM

SYDNEY, AUSTRALIA
29 NOVEMBER - 01 DECEMBER 2019
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2019 MDSG CONFERENCES SYDNEY, AUSTRALIA

SYDNEY, AUSTRALIA
29 NOVEMBER-01 DECEMBER 2019

Welcome to MDSG Conferences 2019

Dear Professor, Dr and distinguished delegates,

Welcome to the MDSG Conferences 2019 in Sydney, Australia. On behalf of ***MDSG-RG Thailand Chapter***, I would like to thank all the Conference Chair, Program Chairs and the Technical Committees. Their high competence and professional advice enable us to prepare the high-quality program. For the participants, we hope all of you have a wonderful time at the conference and also in Sydney, Australia.

We believe that by this excellent conference, you can get more opportunity for further communication with researchers and practitioners. For the conferences **ICEMBS 2019, ICCECMA 2019 and ICABES 2019,** more than 25 submitted papers have been received and 12 papers have been accepted and published finally.

In order to hold more professional and significant international conferences, your suggestions are warmly welcomed. And we are looking forward to meet you again next time.

Best Regards,
Thank you.

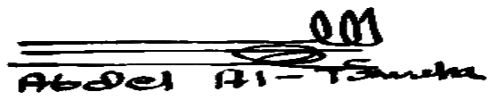
Yours Sincerely,

Datin MZ Zainab
Director – Conference Management
Chairman, MDSG Conferences 2019 Sydney, Australia

Message from MDSG Honorary Advisor

On behalf the MDSG-RG Thailand Chapter, it is my privilege to welcome you to the MDSG-RG Thailand Chapter Sydney, Australia 2019. MDSG-RG Thailand Chapter is an independent, non-political, non-governmental organization of distinguished scientists dedicated to advancing science around the world. We aim to help scientists and researchers to publish their findings in scientific journals and to promote and help to organize worldwide conferences. We believe that has no boundaries, regardless of the great distances between countries and continents. Thus, MDSG-RG Thailand Chapter welcomes contributions from researchers from all concern irrespective to the race, colour, religion and nationality.

Best Regards



Prof. Dr. Abdel Rahman Mohammad Said Al Tawaha
Honorary Advisor
MDSG Conferences 2019 Sydney, Australia

About MDSG-RG THAILAND CHAPTER

The MDSG-RG Thailand Chapter is a non-profit international association dedicated to the promotion of international education and university cooperation in the field of Business, Art, Social Science, Management, Education, Science, Technology, Engineering and any other related field.

Through the organization of different international events, it brings together institutions, bodies and organizations from different countries of the world for discussion and cooperation MDSG-RG Thailand Chapter Mission is to promote and enhance the dialogue in education among the institutions devoted to field mentioned above through:

- Promotion of best practice standards in the service of international education.
- The facilitation of relevant forums, training and information exchange.
- Creation and dissemination of knowledge; exert an influence in public policy.
- Production of publications used as a database document for research works, projects and innovation activities held on the international education field.

MDSG-RG Thailand Chapter believes that this is best achieved through international cooperation and promotes the development of closer links among relevant institutions and individuals around the world. MDSG-RG Thailand Chapter supports that such international cooperation can help countries learn from each other and promotes the dissemination of scientific and engineering activities. MDSG-RG Thailand Chapter intends to achieve the mentioned objectives and get an international visibility by the organization of international conferences and by interacting with public and private organisms from all parts of the world.

MDSG Research Group Thailand Chapter

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ANNOUNCEMENT

All accepted papers will be published in:

- Active Scopus Indexed Journal
- ESCI Journal
- Active ERA Journal
- Chemical Engineering Transactions (CET) (Issn: 2283-9216)
- International Journal of Mechanical and Production Engineering Research and Development (IJMPERD) (EISSN: 2249-8001/ISSN: 2249-6890)
- Management Science Letters (MSL) EISSN:1923-9343/ISSN:1923-9335
- Journal Of Mechanics Of Continua And Mathematical Sciences EISSN:0973-8975, ISSN: 2454-7190
- Amazonia Investiga Journal (ISSN: 2322-6307)
- Journal of Asian Scientific Research EISSN:2223-1331, ISSN:2226-5724
- International Journal of Asian Social Science EISSN: 2224-4441 ISSN:2226-5139
- Advances in Environmental Biology (AEB) (ISSN 1995-0756)

One Best Presenter Award will be selected from each oral session. The Certificate for Best Presenter award will be awarded after presentation session.

KEYNOTE SPEAKER:

Dr. Noor Ashikin Mohd Rom
Multimedia University

Dr. Noor Ashikin Mohd Rom is a Senior Lecturer at Faculty of Management, Multimedia University, Cyberjaya, Malaysia. She received her MBA and Ph.D from Universiti Teknologi MARA, Malaysia and graduated her Accounting and Finance degree from Liverpool John Moores University, United Kingdom. She has vast experiences in corporate sectors; banking, investment and insurance industries for more than thirteen years. Dr. Noor Ashikin is co-founder of Nura Food Innovation, a spin-off company established under Entrepreneurship Department Centre (EDC), Multimedia University. The social entrepreneurship business aspiration is the outcome from research on poor and low income studies. The spin-off company has won a few gold medals from the international competitions and has gain the reputation from its innovation. She is very active in research and has spearheaded more than six external research grants and a team member for another five external research grants. Most of her studies are on the poverty, low income communities, welfare, financial protection, zakat (alms) and micro-franchise. She has voluntarily conducted sequence of financial trainings to street traders via Knowledge Transfer Program (KTP).

Abstract

How to Spin-off Your Research Project?

There are millions of academic research have been produced by researchers around the world. There are many new journals emerged to cater the enormous volumes of the research outputs. These research may have the opportunities to be commercialized thus contributing to publics' needs. One of the means to commercialize the outcome of the academic research is by the creation of spin-off companies. The spin-off company is an outcome of an entrepreneurial process based on research carried out by researchers in the universities. The formation of a university spin-off usually from a research-based of creative idea or technology and innovation of processes or products based on the intellectual property. The spin-off projects normally lead by a university's researcher or a team of researchers (entrepreneurs). Nowadays, there are many government and agencies' backed programs, such as new seed funds, incubators and crowdfunding with the objective to provide funding to the new spin-off companies or entrepreneurs. Most of the universities today has transforming themselves into an entrepreneurial university by playing a major role in social and economic development. This entrepreneurial activity has mainly been carried out by transferring business ideas and technology to industry.

LIST OF THE CONFERENCE COMMITTEE

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MDSG Conferences 2019 Sydney, Australia, Chairman

Datin MZ Zainab

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Nurul Faezah Mohd Talib

Nurul Izzati binti Mohamad Zaini

Noor Hidayah Abdullah

INSTRUCTION FOR ORAL PRESENTATION

Devices Provided by the Conference Organizer:

- Laptop (with MS-Office & Adobe Reader)
- Projector & Screen
- Laser Sticks

Materials Provided by the Presenters:

- PowerPoint or PDF files

Duration of each Presentation (Tentatively):

- Regular oral presentation: about 15 minutes (including Q&A)
- Keynote speech: about 40 minutes (including Q&A)

Notice: Please keep your belongings (laptop and camera etc) with you!

During registration:

Original Receipt
Representative / Pass Card with lanyard
Printed Program
Lunch Coupon
Participation Certificate (collected from Session Chair after the session)
Conference Bag

MDSG Conferences 2019 Sydney, Australia
Conference Program

November 29, 2019	Venue: **Foyer Cabaret**	1000 - 1100	Registration	
November 30, 2019	Venue: **Cabaret**	0830 - 0930	Opening Remarks	**Opening Remarks & Keynote Speech**
		0930 - 1000	Group Photo and Coffee Break	
	Venue: **Cabaret**	1030 - 1230	Session 1	
	Venue:	1300 - 1400	Lunch	
	Venue:	1400 - 1600	Session 2	
December 01, 2019	Lobby hotel	0800 - 1200	Networking	

Session 1
Time: 1030 - 1230
Venue: **Cabaret**
Session Chair: **Assoc. Prof. Dr. Chong Khim Ping**

No	Paper ID	Presenter
1	001-syd	**Characterization of Antibacterial Compounds from *Ganoderma boninense* against Selected Pathogens** Syahriel Abdullah, Ling Yee Soon, Sylvia Jerome Daim, **Khim Phin Chong** *Universiti Malaysia Sabah, Malaysia*
2	002-syd	**Bio inactivation of furazolidone by the novel soil fungal strain *Aspergillus tamarii*** Nurul Izzati Abdul Rahman, Shahrul Hisham Zainal Ariffin, Muhd Fauzi Safian, **Zaidah Zainal Ariffin** *Universiti Teknologi MARA, malaysia*
3	004-syd	**Toward Quality Control of Biogas Product in Indonesia: A Brief Overview** **Oman Zuas**, Arfan Sindu Tistomo, Muhammad Rizky Mulyana, Melati Fajra Azizka, Harry Budiman, Veny Luvita, Ayu Hindayani, Toto Sugiharto, Wahyu Purbowasito *National Standardization Agency of Indonesia (BSN), Indonesia*
4	010-syd	**Autonomous Language Learning, Language Proficiency and Academic Performance of EFL Middle School Students in China** **Gurnam Kaur Sidhu**, Wang Man Li Yuan, Jaslinder Kaur Param Jit Singh *SEGi University, Malaysia*
5	011-syd	**Living Society in Scarce Resources** **Noor Ashikin Mohd Rom,** Mohamad Lusfi Yaakob, Nurbani Md. Hassan *Multimedia University, Cyberjaya, Selangor, Malaysia*
6	012-syd	**Mobile Entrepreneur Program for *Asnaf* : Is Lembaga Zakat Selangor Doing The Right Thing?** **Nurbani Md Hassan,** Dr. Noor Ashikin Mohd Rom *Multimedia University, Cyberjaya, Malaysia*
7	013-syd	**GC-MS Analysis and Fumigant Activity of *Lantana camara* Essential Oil** Atikah Liyana Ahmad, Zhafiran Shamsol, Mohd Muzamir Mahat, Shahrul Hisham Zainal Ariffin, Zaidah Zainal Ariffin, **Muhd Fauzi Safian** *Universiti Teknologi MARA, Shah Alam, Malaysia*
8	015-syd	**What are the Sustainable Benefits of Projects?** **Ross Yates,** Richard Hughes, Denise Gengatharen, Alistair Campbell, Reza Kiani Mavi *Edith Cowan University, Western Australia, Australia*
9	001-syd-sices	**Development of High Speed Train Door System for Improving Maintenance** **Kye-Seung Lee** and Cha-Jung Yun *Korea Railroad Corporation, 240, Jungang-ro, Dong-gu, Daejeon, Republic of Korea*

Session 2
Time:
Venue: **TBA**
Session Chair:

No	Paper ID	Presenter
1	003-syd	**Investigation on Quasi Static Indentation of Natural Fibre Metal Laminate** Naziatul Fazilah Mohd Zalani, Noordiana Mohd Ishak, Sivakumar Dhar Malingam, Siva Irulappasamy *Universiti Teknikal Malaysia Melaka, Malaysia*
2	005-syd	**Gratification And Continuance Intention Of Watching Movies On YouTube Among Malaysians: A Business Opportunity** Mohd Syuhaidi Abu Bakar, Jusang Bolong, Rosmiza Bidin *Universiti Teknologi MARA, Malaysia*
3	006-syd	**Study about pre-launch survey and observation of B2B customers.** Rishabh raj, Ankit sharma, Nitish km sinha *Chandragupt institute of management, Patna, India*
4	007-syd	**A Study of Anticancer Activity in Ethanolic Extract and Ethyl Acetate Fraction from Rodent Tuber Superior Mutant (Typhonium flagelliforme Lodd.) by PrestoBlue Assay Method** Nesti Fronika Sianipar, Yuni Elsa Hadisa Putri, Khoirunnisa Assidqi, Partomuan Simanjuntak, Ragapadmi Purnamaningsih *Bina Nusantara University, Indonesia*
5	008-syd	**Lessons Learned from Eye Tracking Analysis of Farm Shop Interior** Elena Horská, Ľudmila Nagyová, Jakub Berčík, Marek Petriľák, Miroslava Kačániová *Slovak University of Agriculture in Nitra, Nitra, Slovak Republic*

Conference Venue

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Note

List of Abstract

No	Paper	Abstract
1	001-syd	**Characterization of Antibacterial Compounds from *Ganoderma boninense* against Selected Pathogens** Syahriel Abdullah[1], Ling Yee Soon[2], Sylvia Jerome Daim[3], **Khim Phin Chong[4]** *[14]Biotechnology Programme, Faculty of Science and Natural Resources* *[2]Biotechnology Research Institute* *[3]Pathobiology and Microbiology Department, Faculty of Medicine and Health Sciences* *Universiti Malaysia Sabah, Jalan UMS, 88400, Kota Kinabalu* *Sabah, Malaysia* *[4]chongkp@ums.edu.my* **Abstract:** *Ganoderma boninense* is the causal pathogen of basal stem rot of oil palm which has been known to contain many bioactive compounds that might be potential to be developed as a new source of therapeutic agent. Liquid-liquid extraction (LLE) using methanol:chloroform:water (1:1:1) was developed for preliminary isolation of antibacterial compounds from *G. boninense*. Active fractions from the LLE were screened for their antibacterial activity using High Performance Thin Layer Chromatographic (HPTLC) bioautography through gradient solvent system separation. The composition of the compounds from the active bands of HPTLC bioautography against *Staphylococcus aureus Streptococcus pyogenes*; Methicillin Resistant *Staphylococcus. aureus*, *Pseudomonas aeruginosa*, *Klebsiella pneumonia* and *E. coil* and was further identified with various dereplication methods including the combination of Gas Chromatography-Mass Spectrometry (GC-MS) and Two Dimensional-Nuclear Magnetic Resonance (2D-NMR) spectrometry. Compound identification using various dereplication methods revealed the possible antibacterial compounds are Ergosta-5,7,22-trien-3β-ol or Ergosterol (m/z= 396.65, M.F= $C_{28}H_{44}O$) and 1,5,5′-Trimethyl-4,8-dioxo-6-isopropenyl -8′-ethyl-5′, 8′-epoxy-4a,8a-didehydro-1,4′- ethanospiro [decalin-2,3′-oxocane]-5-propionic acid methyl ester or Ganoboninketal (m/z= 498.66, MF= $C_{30}H_{42}O_6$) which belong to family of 3,4-seco-27-norlanostane triterpene. Both compounds exhibited promising antibacterial activity against selected pathogens.
2	002-syd	**Bio inactivation of furazolidone by the novel soil fungal strain *Aspergillus tamarii***

		Nurul Izzati Abdul Rahman[1], Shahrul Hisham Zainal Ariffin[2], Muhd Fauzi Safian[3], **Zaidah Zainal Ariffin[4]** *[134]Faculty of Applied Sciences, Universiti Teknologi MARA, Shah Alam, 40450, Selangor, Malaysia* *[2]Faculty of Science and Technology, Universiti Kebangsaan Malaysia, 43600, Bangi, Selangor* *[4]drzaidah@uitm.edu.my* **Abstract:** The present study used laboratory-scale experiments to develop methods for the bio inactivation of furazolidone from the environment. A fungus was identified as *Aspergillus tamarii* by morphological observation and sequencing the PCR-amplified ITS fragments of its rRNA-coding genes, it has the potential to bio inactivate furazolidone via submerged fermentation. *Aspergillus tamarii* was isolated from poultry farm soil with the GPS coordinates of N3.093219 E101.40269. This study observed that the best conditions for the *Aspergillus tamarii* to bio inactivate furazolidone are at 30°C, 150 rpm, pH 6 and 96 hours. The bio inactivation efficiency of furazolidone exceeded 97% by day 4 under optimized culture conditions which indicates its potential for future use in large-scale bio inactivation of furazolidone.
3	**004-syd**	**Toward Quality Control of Biogas Product in Indonesia: A Brief Overview** **Oman Zuas[12]**, Arfan Sindu Tistomo[1], Muhammad Rizky Mulyana[1], Melati Fajra Azizka[1], Harry Budiman[1], Veny Luvita[1], Ayu Hindayani[1], Toto Sugiharto[1], Wahyu Purbowasito[2] *[1]Centre for Research And Human Resource Development, National Standardization Agency of Indonesia (BSN), Kawasan PUSPIPTEK, SNSU Building 420, Setu, 15314, Tangerang Selatan, Banten, Indonesia* *oman@bsn.go.id* *[2]Directorate for Standard Development of Agro, Chemical, Health, and Halal, National Standardization Agency of Indonesia (BSN), BPPT Building 1, 14th Floor, Jl. MH. Thamrin No. 8. Jakarta, 10340, Indonesia* ***Abstract:*** The quality control of the final product of biogas is essential for providing a maximum level of consumer's satisfaction. The most important criteria for any biogas products are its regulatory compliance and safety. Based on a desk study of document and laboratory experiment, this paper overviews the development of quality infrastructure for controlling the quality of a final product of biogas, aiming at summarising the experience, problems and demonstrating development status of quality infrastructure in Indonesia in the hope of providing references for the present condition. The discussion is made to cover issues related to biogas that are emphasised on three pillars of quality infrastructure in Indonesia, i.e., standardization, metrology, and conformity assessment. From the overview, the critical conclusion where understanding and continuing the development quality infrastructure of assuring the safety and quality of biogas remain essential.

4	**010-syd**	**Autonomous Language Learning, Language Proficiency and Academic Performance of EFL Middle School Students in China** **Gurnam Kaur Sidhu**[1], Wang Man Li Yuan[2], Jaslinder Kaur Param Jit Singh[3] *Faculty of Education, SEGi University Kota Damansara, PJU5, Petaling Jaya, 47810 Selangor, Malaysia*[12] *gurnamgurdial@segi.edu.my*[1] *skyeamida95@gmail.com*[3] *Perdana University- Royal College of Surgeons in Ireland*[2] *(PU-RCSI) School of Medicine, 43400 Serdang, Selangor, Malaysia*[3] *jaslinder.kaur@perdanauniversity.edu.my*[2] **Abstract:** Autonomous language learning is critical for learners learning a new language in a homogeneous learning environment where there is limited exposure to the target language. Therefore, the aim of this paper was to investigate learner readiness for autonomous language learning and the relationship between autonomous language learning, language proficiency and academic performance of EFL Middle School students in China. The study was conducted in one Middle School located in northwest China and it involved a total of 300 Grade Nine EFL students. Data were collected through a questionnaire and semi-structured interviews. The quantitative findings revealed that students' perceived they possessed a moderate level of readiness for autonomous language learning but qualitative findings indicated they were not ready for autonomous learning in all four aspects of managing learning namely planning, organizing, monitoring and evaluating. Findings also indicated a significant difference between student readiness for autonomous learning and their English language proficiency but no significant difference was witnessed between the student readiness for autonomous learning and their academic performance. A significant and moderate relationship was also found among all the four aspects of managing learning. Students' lack of readiness for autonomous learning imply that EFL teachers need to empower their learners with learner training and current technological approaches so that they can take responsibility for their own language learning process.
5	**011-syd**	**Living Society in Scarce Resources** **Noor Ashikin Mohd Rom**[1]**,** Mohamad Lusfi Yaakob, Nurbani Md. Hassan[2] [12]*Faculty of Management, Multimedia University, Cyberjaya, Selangor, Malaysia* [1]*ashikin.rom@mmu.edu.my* [2]*lusfiyaakob@gmail.com, nurbani.hassan@mmu.edu.my* **Abstract**: The research is conducted in surburban area of Selangor, Malaysia, focusing on low income and poor people. Low income is categorized of income less than RM2,000 in 2014, however it has been increased by RM3,000 per month since 2017. The objective of the study is to examining the low income and poor people's wellbeing in terms of income, food, housing, health and education. The study employed qualitative method and twenty participants were interviewed. The result shows that the low income and poor are far away from having appropriate basic necessities due to their insufficient income.

6	**012-syd**	**Mobile Entrepreneur Program for *Asnaf* : Is Lembaga Zakat Selangor Doing The Right Thing?** **Nurbani Md Hassan[1],** Dr. Noor Ashikin Mohd Rom[2] [12]*Faculty of Management, Multimedia University, Cyberjaya, Malaysia* *Nurbani.hassan@mmu.edu.my[1]* *Ashikin.rom@mmu.edu.my[2]* **Abstract:** Zakat Institutions in Malaysia have initiated various capital assistance program aiming to transform the Asnaf and nurture the Asnaf to become entrepreneur. One of the program is Mobile Entrepreneur Program (MEP) by Lembaga Zakat Selangor which has been implemented in year 2007. The objective of this research is to explore the implementation of MEP, since little are known about this program. The second objective is to identify the challenges faced by Lembaga Zakat Selangor in managing this program. This research adopts qualitative method, where semi-structured interviews and documents analysis method are used to gather the data. Content analysis is used to analyze the data. The findings of this research shows that the implementation of Mobile Entrepreneur Program is not only for the Asnaf to actually become successful entrepreneurs but also to ensure that Asnaf can be transformed to non-Asnaf via this program. In addition, MEP has proven to be the most successful program with success rate of more than 90% Though the program was successful, the findings also revealed that Lembaga Zakat Selangor faced some challenges in the program such as the Asnaf are not ready to transform due to lack of confidence and fear. Lack of experienced and knowledgeable staff, high turnaround time for the business license application are also part of the challenges that Lembaga Zakat Selangor has to deal with.
7	**013-syd**	**GC-MS Analysis and Fumigant Activity of *Lantana camara* Essential Oil** Atikah Liyana Ahmad[1], Zhafiran Shamsol[1], Mohd Muzamir Mahat[1], Shahrul Hisham Zainal Ariffin[2], Zaidah Zainal Ariffin[1], **Muhd Fauzi Safian[1]** [1]*Faculty of Applied Sciences, Universiti Teknologi MARA, Shah Alam, 40450, Selangor, Malaysia* [2]*Faculty of Science and Technology, Universiti Kebangsaan Malaysia, 43600, Bangi, Selangor* *mohdf956@uitm.edu.my* **Abstract:** The objective of this study was to identify the chemical constituents of essential oil from the leaves of *Lantana camara* plant that is planted locally in Malaysia. The leaves of *L. camara* plant were freshly collected and air-dried at 25°C. Then the essential oil of *L. camara* was collected through hydrodistillation method using Clevenger type apparatus. The essential oil was analysed using Gas Chromatography – Mass Spectrometry (GC – MS) and there were 17 chemical constituents present in the essential oil and confirmed by using MS data bank. The essential oil of *L. camara* showed positive results with fumigant toxicity assay against *Sitophilus* species. Based on the chemical constituents present in the oil, β-caryophyllene and

		caryophyllene oxide were believed to be responsible towards the insecticidal property against the *Sitophilus* species and it was proven that essential oil from leaves of *L. camara* can be developed as a biofumigant.
8	**015-syd**	**What are the Sustainable Benefits of Projects?** **Ross Yates,** Richard Hughes, Denise Gengatharen, Alistair Campbell, Reza Kiani Mavi *School of Business and Law, Edith Cowan University, Western Australia, Australia* *Edith Cowan University, 270 Joondalup Drive, Joondalup 6027, Western Australia, Australia.* *r.yates@ecu.edu.au* **Abstract:** A project's deliverables and outcomes can impact many aspects of human life and those impacts may continue beyond project completion. In the contemporary project landscape, many projects attempt to achieve sustainable benefits by protecting the natural environment along with accomplishing economic and social benefits. While different categorisation schemes have been provided for the benefits such as end/intermediate benefits, and tangible/intangible benefits, this paper presents a new classification of project benefits from a sustainability perspective, which includes economic, social, environmental, and policy benefits. Using a systematic literature review protocol, these benefits are further categorised at the project level, to provide a greater understanding and assist businesses in implementing appropriate practices and policies in their benefit realisation decisions. It also seeks to draw attention to a new angle in assessing a project's benefits through comprehensive identification, investigation, evaluating and ranking different aspects of them. Along with its contributions to the knowledge of project management, this study supports decision-makers by providing more accurate classification and measurement of a project's benefits. So, instead of paying attention to many small benefits, business managers can focus on more strategic and sustainable benefits to achieve their objectives.
9	**001-syd-sices**	**Development of High Speed Train Door System for Improving Maintenance** **Kye-Seung Lee** and Cha-Jung Yun *Korea Railroad Corporation, 240, Jungang-ro, Dong-gu, Daejeon, Republic of Korea* **Abstract:** The train door of the high speed train currently operation in Korea is consist of 46 train set(1,656 units) and they are all made up of imports. The problem is that it is difficult to service parts at the right time for breakdown or replacement as parts are imported. Moreover, it is difficult to secure service parts when they are discontinued due to characteristics of imported parts, this leads to an increase in overall maintenance cost. As a result, the Korea Railroad Corporation has developed localization of the high speed train door system and currently progress the on-track test to verify reliability. In this paper, the design and production process of development product and result of performance test are summarized. In addition, the technical improvement of the developed product compared to the existing product was confirmed and the method for securing the reliability was considerate.