

**COMPILATION OF FEASIBILITY STUDIES ABSTRACTS
BS in INDUSTRIAL ENGINEERING
2010-2015**

This compilation will serve as a guide to support the faculty and students in their search for recorded researches. The printed copies are available in the Reference Section of the LPU-Batangas S.H.L. Learning Resource Center - LIMA Campus.

SUBJECT	THESES NO.	AUTHOR/S	TITLE	ABSTRACT
CHARCOAL MAKING	BSIE / 27 / 2012	Colina, Kuster Kar C. ; Marasigan, Michael Angelo I. ; Tarcelo, April B.	Charcoal Briquetting From Water Lily and Abandoned Biomass	MCT Company founders will introduce its product named "Green Charcoal" which is made from water lily and abandoned biomass like plants waste, agricultural wastes, yard wastes, kitchen wastes and urban wastes. Proponents do think that making this proposed charcoal helps reduce the mounting growth of water lily and waste especially in the areas where there is an abundance of the said materials. All products are assured to give no harm to the environment and consumers before the launch of any products to the market place. The firm will be located at Mabacong, Batangas City because the demand of the charcoal higher there and one of the raw materials needed in the production will be gathered in Batangas. Restaurant in Lipa and Batangas City will be the target market area of the company. The development of the product will greatly reduce deforestation and the rapid growth of water lily and solid waste material. The study aims to inspire people and give concern to our environment.

CHARCOAL MAKING ; COAL	BSIE / 36 / 2015	Guarte, Geron F. ; Kalaw, Kayseelene I. ; Lopez, Fernando D. ; Salvador, Roxette D. ; Villanueva, Kenneth Kim A.	Coco Coal Biomass Briquette	<p>One of the cheapest cooking fuels is charcoal or coal. On the process on making these charcoals, however, is where the adverse effects come. Some charcoal makers cut down trees to be able to provide the main material they need in making one which is wood. As an alternative and also a solution to this, biofuels are introduced, which is biomass briquette. Biomass briquettes are biofuel substitute to coal and charcoal. It is mostly made of green waste and other organic materials, and is most commonly used for electricity generation, heat and cooking fuel. The proponent aimed to introduce COCO COAL BIOMASS BRIQUETTE to the market. Coco coal is necessary because it is a cheaper alternative to the usual charcoal used, LPG and electric stove. It will help for the reduction of the carbonizing of woods that sometimes lead to illegal deforestation. The project aimed to capitalize on new ideas that will contribute to the improvement of the quality of the product and to boost their profit by utilizing and maximizing the capacity of the machine used in making the product and finding other raw materials that can be used in making alternative fuel and briquettes.</p>
COCONUT JUICE	BSIE / 20/ 2010	Bacay, Mary Rose A. ; Lasin, Geri Ada E. ; Leyma, Rozel A. ; Pentinio, Juana M.	Kobu-Kobu - Coconut Water Powdered Juice Drink of Juzer Manufacturing Firm	<p>Amidst the increasing economic crisis that the Philippines encounter, JUZER Mfg. Firm took the risk of entrepreneurship. They manufacture an innovative product that is Kobu-Kobu Coconut Water Powdered Juice Drink. It is a premix sachet that will satisfy the Filipinos craving for fresh coconut water. Instead of the traditional coconut juice in the nut, Kobu-Kobu can be easily stored and conveniently be consumed whenever. It will be marketed throughout the selected stores and supermarkets in Taal Public Market and the Batangas City. In due time, the proponents anticipate the business expansion. JUZER Mfg. firm will serve as an advocate towards better economy and a catalyst for the betterment of the common good.</p>

CRAYONS	BSIE / 32 / 2014	Atienza, Gary G. ; Chongco, Evans Jommelle Angelo ; Hornilla, Darwin Z. ; Hosmillo, Mark U.	Hach Beeswax Crayon	Hach Beeswax Crayon is different from existing crayons in the Philippine market. Because it is conceptualized to be more environmental friendly and safer to the future consumers. The company will use beeswax rather than paraffin wax in these crayons. DEMG manufacturing firm will make use of pigments similarly used in food products to ensure the safety of the product. DEMG manufacturing firm will be located at Brgy. Alupay, Rosario Batangas due to accessibility of utilities and labor force. The target market for the product will be all crayon users from artist, pre-elementary and elementary students from Rosario and Batangas City and its labor community after it has established its operation. The proponents started to produce pack of sixteen as their initial product. The proponents plan to expand their business in the future aspect in producing eight and twenty-four packs of crayons.
DETERGENT POWDER	BSIE / 26 / 2012	Alvar, Mark Kevin E. ; Del Rosario, Renato F. ; Mapa, Jay Kristofer V.	Bio-detergent Powder With Kamias	The Bio detergent powder with Kamias, the proposed product, is unique, original and effective. It may appeal like other detergent powder, but unlike the other detergent powders, it has the power of kamias fruit. It is effective because of its oxalic acid content, useful for bleaching stains from the hands and rust from white clothes. The proponents will plan to manufacture new detergent powder because nowadays people are experiencing different skin problems with detergent powder that they are using for their clothes. The study aims to bring the acceptability of bio detergent powder with kamias in the market. The proponents will decide to put up the plant in Barangay Manghinao I Bauan Batangas for the reason that the target market and ingredients are near to that said plant location. The proponents will acquire new machines to provide quality products for the consumers.

DISHWASHING LIQUID	BSIE / 34 / 2014	Del Rio, Francis T. ; Lescano, Jerome D. ; Maquimot, Norielyn I. ; Santorce, Mary Jean N. ; Simbulan, Aileen F.	Queen Cleaner Dishwashing Liquid	<p>The Queen cleaner dishwashing liquid have similar characteristics with existing items. The product has a smooth and sticky texture, yellow in color and has a high density. It has permeability property where water can penetrate to the product. The advantage of QCD liquid are it is in liquid form which is easy to rinse off and it is more economical since it can be mixed with water. The main purpose of the company is to provide a sustainable livelihood to the residence of SHL Restoration Village by producing a quality dishwashing liquid to its target market. Queen cleaner dishwashing liquid is essential to people especially those who deal with food related industry since they use dishes and kitchen utensils. The researchers gathered information through survey to determine the demand of the product.</p>
ESSENTIAL OIL	BSIE / 23 / 2011	De Ocampo, Ralph D. ; Godoy, Joel A. ; Hosmillo, Jim Aldrich O. ; Lescano, Bryn Miguel B. ; Villanueva, Reymart T.	Puresse Citronella Oil JMRJR Manufacturing Firm	<p>JMRJR Manufacturing Firm manufactures an innovative product that is essential oil. It is a pure and essential oil which is free from impurities; an oil that has many uses and can help the company to produce a product like soap, perfumes, medicines and food flavoring. It can also be an insect repellent. In due time, the proponents anticipate the business expansion. JMRJR manufacturing firm will serve as an advocate towards better economy and a catalyst for the betterment of the common good.</p>

ETHANOL	BSIE / 39 / 2015	Cantos, Abigail B. ; Catipay, Kevin Louie ; Limbo, John Darzy A. ; Lopez, Joshua C. ; Reyes, Kristine Joyce R. ; Solayao, Paul John B.	Ethanol Production from Buri Palm	<p>The study aims to bring the acceptability of bio ethanol from buri palm. The researchers will promote their product in Brgy. Liponpon, Isla Verde Batangas City by using gallons as containers. If this study will be feasible, the distribution of the product will expand to other barangays of Isla Verde. The researchers decided to put the plant in Brgy. Liponpon Isla Verde Batangas City since the target market and materials are abundant in the said location. Bioethanol fuel is mainly produced by the buri palm fermentation process, although it can also be manufactured by the chemical process of reacting ethylene with steam. Ethanol is produced from buri palm. Ethanol is an excellent substitute for kerosene and burns better than without any particulate output or unpleasant smell. Its combustion is almost as clean as that of LPG. Hence the use of ethanol fuel for cooking and lighting for rural areas needs to be encouraged.</p>
FEED MILL	BSIE / 37 / 2015	Castillo, Edvic Angelo S. ; De Castro, Alex M.; Del Pilar, Maria Isabel T. ; Medina, Lex Morgan G. ; Silang, Dominic C. ; Sumera, Arabelle	Pelletized Spent Grain Feed of Ideal Feed Mill Manufacturing	<p>Ideal Feed Mill Manufacturing offers Pelletized spent grain feeds which is made from brewer's spent grains. It is composed of spent grain, molasses, salt and pre mix vitamins. It can provide more crude protein and crude fibre which is the basic need nutrient of cattle to produce milk and high quality of meat. It can be used as alternative feed for cattle. Compared to other commercial feeds it has cheaper price and it is good for the cattle's production of milk and for the meat production of the ruminants. Ideal feed mill manufacturing will be located at Barangay Alupay Rosario Batangas. It shall be initially distributed in selected towns of Batangas such as Batangas City and Rosario. The target markets of Ideal feed mill manufacturing are BADACO Lipa City and BADACO Malvar. The product will become in demand in the market because compared to other existing feeds it has cheaper price and is equipped with different vitamins and nutrients.</p>

FERTILIZER	BSIE / 33 / 2014	Asio, Rheyman Fidel F. ; Blay, Jeffrey T. ; Dalhag, Ryan C. ; Dela Pena, Ranniel D. ; Gumapac, Edward D.	Organic Fertilizer Green Garden Compost	Compost is one of the nature's best mulches and soil amendments and they can use it instead of commercial fertilizers. The Green garden compost will be located in SHL Restoration Village at Sitio Gugo, San Jose Brgy. Sico Batangas City. The researchers want to help the residents in the chosen location to have a better job in order to sustain and fulfill the needs of every family living there. Green garden Compost will expand the supply to the plant nurseries businesses, garden centers and plant suppliers in Batangas City. Green garden compost comes up with this organic fertilizer, because it can increase physical and biological nutrient storage mechanisms in soils, mitigating risks of over-fertilization. It aims to satisfy the consumer by providing them high quality organic fertilizer. For the Green garden compost the study will help them to develop their facilities for better working condition of their workers and provide a quality fertilizer for their customers.
FURNITURE MANUFACTURING	BSIE / 29 / 2013	Cuevas, Michael M. ; Dimaunahan, Lemuel L. ; Manalo, Teotimo R. ; Mendoza, Gilbert D.	Working with Puzzle-niture	Inspired by successful furniture businesses, CD2M furniture manufacturing company offers "Puzzle-niture", a newly improved furniture made of fly wood, wvinyl, hinges, wheels and screws. CD2M furniture manufacturing company is located in Diversion road, Brgy. Bolbok Batangas City with a total land of 3225 square meters. The proponents choose this place because of its is belonging to the industrial zone with the certification from the City Planning and Development Office and it is the most appropriate location for our manufacturing process because it is along the highway. CD2M furniture manufacturing company is one of the aspiring manufacturing of puzzle-niture because of the raw materials needed. CD2M furniture manufacturing company will then become one of the largest and leading manufacturers of furnitures in the Philippines.

<p>NEWSPRINT MANUFACTURING</p>	<p>BSIE / 22 / 2011</p>	<p>Aguirre, Philip Rey S. ; Areglado, Jayson M. ; Bacsa, Darrell Jay L. ; Diomampo, Ilmer M.</p>	<p>Newsprint Made From Ubiquitous Banana Stalk Fiber</p>	<p>There is good opportunity for the establishment to enter the newsprint manufacturing industry since there is a sufficient amount of unsatisfied market which indicates that there will be enough space in the market that the establishment could occupy. The establishment could also help both the environment by utilizing banana stalk and could also help the people in terms of providing employment and give opportunity to banana farmers to gain extra money by selling banana stalk to the establishment. The company will gain profit from its operations which is supported by the tests and computations done to measure the company's solvency, stability and profitability. Technically, the establishment could manufacture the intended market share of 39.85%, since the machines that will be used are capable of manufacturing the demand.</p>
<p>NOODLES MANUFACTURING</p>	<p>BSIE / 21 / 2010</p>	<p>Barza, Marlon, M. ; De Castro, Nonilon D. ; Ocampo, Allan Christian D. ; Panganiban, Marquis U. ; Singh, Gurdip Q.</p>	<p>Quin Charl Flavored Noodles Manufacturing</p>	<p>Quin Charl Flavored Noodles is the name that has come to signify and freshness in noodles products. The enterprise, Quin charl flavored noodles manufacturing will have a start up operation of one plant throughout Batangas Province. Initially we are going to launch it in Batangas, having factory in Barangay Bilogo. Quin charl flavored noodles is an innovated and adopted Pinoy(Filipino) cuisine, connecting us to our Asian roots. It is also veritable Pinoy comfort food - easy to cook than rice, more versatile and food combination friendly. Quin charl flavored noodles management team recognized early on that to be a contender in the noodles industry. The company needs to comply with international processing standards. Since the company was starting, they were not able to give fringe benefits to some employees and other discount on their products to the customers. The installation of machines and equipments were free as part of the package deal between company and the dealers of the machines and equipments.</p>

OLIVE OIL MANUFACTURING	BSIE / 18 / 2010	Cabra, Oliver M. ; Caniete, Jayvee G. ; Ponce, Vincent Andrew P. ; Ramirez, Jay-r C. ; Villanueva, Richard M.	Batangas olive vegetable oil manufacturing (BOVOM)	Batangas olive vegetable oil manufacturing was chosen to manufacture edible oil that can be used both in high and low smoke point of cooking and temperature which will be named batangas olive vegetable oil manufacturing. The Batangas olive vegetable oil manufacturing will establish multi-purpose edible cooking oil. The business will propose an olive vegetable oil processed with their own facilities which carry the option of a home-made olive vegetable oil for the community of Batangas City. BOVOM foresees itself to be one of the fastest growing manufacturing of olive vegetable oil.
PAPER MANUFACTURING	BSIE / 31 / 2013	Cercenia, Mc Kevin C. ; De Leon, Melvin M. ; Florendo, Kristoper C. ; Poquiz, Mark Harold B.	Batangan Paper From Sugarcane Bagasse and Recycled Paper	To develop paper that will meet the needs of the present generation without compromising the environment is the reason why proponents chose the diversified paper manufacturing project. This is how the Regala paper manufacturing corporation will exist. The company will provide the customers with paper products from biodegradable materials which will maintain environmental sustainability and exhibit excellent quality. The product will be named "Batangan Paper" because this paper will be a pride of Batangas Province and shall be produced from Batangas. The product is of high quality that is widely used in everyday activities at home, schools, offices and any industry who needs cheaper, durable and reliable copy paper drawn from natural biodegradable wastes which degrades more rapidly compare to virgin and recycled papers. Batangan paper will distributed to different business establishments in batangas City, Lipa City, Taal and other neighboring towns. The company will be situated at Brgy. Muzon II, Alitagtag Batangas, with initial capital of Php32,000,000. It is believed that establishing an alternative paperproducing company , given the right economic conditions and management is feasible.

PAPER PLATES	BSIE / 35 / 2014	Herrera, Ma. Alleth Dianne M. ; Neria, Jessie Kristian M. ; Sapungan, Kathleen L. ; Solis, Karen L. ; Villanueva, Kristine Kelly A.	Papyrus Plates by RV Industry	<p>The industry is a paper plate manufacturer which used white recycled papers, water and corn starch as their main ingredients. The product was named "Papyrus Plates" which is a derivation from latin that means paper. It is a semi-bowl paper plate and an eco-friendly product which has affordable price and high-quality brand. The proponents decided to name the firm as Rv Industry which stands for Restoration Village for the reason that they want to dedicate this project for the residents and this will be a pride of their place which is in San Jose, Sico Batangas. The firm will provide the customers with paper plates from recycled paper which will help the environment to lessen the increasing rate of plastics and has a mission of achieving a sustainable and profitable growth. Papyrus plates are being distributed in LPU-Batangas canteens and in Brgy. San Jose, Sico, Batangas City. The industry is situated in the SHL Restoration village in Sitio Gugo, Brgy. San Jose, Sico, Batangas City with initial capital of Php314,962.00. After conducting the study, it is believed that establishing an paper plates producing company, given the right economic conditions and management is feasible.</p>
PLASTIC MANUFACTURING	BSIE / 25 / 2011	Atienza, Kenney Ross H. ; Casa, Jefferson A. ; Gulla, Cliff Hershey A. ; Ilao, Elrodd J. ; Ligaya, Marlon R.	Majeck Plastic Bag Manufacturing "Happy Bag"	<p>Majeck plastic bag manufacturing, the producer of happy bag is an oxo-biodegradable plastic that will help the community and mother nature sustain to its beauty. Majeck plastic bag manufacturing also is the first oxo-biodegradable plastic bag manufacturing in Batangas P. The proponent will launch this in Barangay Simlong, Batangas City. Happy bag is a plastic bag that has a very small amount of pro-degrading additive introduced into the conventional manufacturing process, thereby changing the behavior of the plastic. The proponents aimed to sustain the needs of market and to satisfy their needs on plastic bags that are not harmful to use and environment friendly. In the near future, majeck plastic bag manufacturing will supply the entire outlets in Batangas.</p>

STARCH	BSIE / 30 / 2013	Aala, John Kenneth P. ; Velasquez, Michelle E. ; Flores, Rey Ryan M.	All-Purpose Arrowroot Starch of AVF Enterprises	All-purpose arrowroot starch is a product made by AVF enterprise which aims to provide quality starch. It is an effective substitute for corn in broiler ration. AVF enterprises will be located at Brgy. Sta. Cruz, Rosario, Batangas due to the proximity of the raw materials, accessibility to utilities and labor force, no floods, no tenants, far from residential houses, with electricity and flat land. In the near future, AVF enterprises will expand the firm to supply non-food sectors such as paper manufacturing companies and manufacturers of medicines.
TABLEWARE	BSIE / 24 / 2011	Domingo, Jessica M. ; Lucero, Krisciene J. ; Sales, Cindereela B.	Yucamaize Tableware of Eco Go Green Industry	As the Philippines create a new start for a big change of the Filipino society, Eco go green industry supports government in making this change possible. The world is unpredictable; there are some cases right now that no one can imagine will happen. It is undeniably that people themselves are the reason why its happening. For them to contribute in saving the earth in just even a simple way the industry become the path for this act. The industry produced biodegradable tableware which is called Yucamaize Tableware which helps in decreasing the number of plastics consumed by Filipino people. It is mostly similar to the tableware in terms of features and performance that is commonly seen on food chains nowadays. The big difference is that yucamaize tableware decomposes itself in specific number of days and would not stay forever on earth. This will market at selected food chains located at Batangas City which are greatest contributors and users of tableware. In the near future, the company sees itself as the supplier of all food chains in the Philippines. The company is looking forward for expansion and establishment of its own building. Eco go green industry serves as the innovator for a better change and will make the present case resolvable.

VEGETABLE OIL	BSIE / 28 / 2012	Malabanan, Jaquemay D. ; Perlas, Keycelyn L. ; Ramirez, Carissa Mae B.	Coscifera Methyl Ester	KCJ Manufacturing products will be called "Coscifera Methyl Ester" where the name came from the scientific name which is cocosnuscifera refering to vegetable oil. The coscifera methyl ester is made from coconut sap known as copra, the dried flesh of nut. The company is trying to be known in producing coconut biodiesel not only in Batangas City but also in other provinces. The firm aims to be connected not just on local refineries but also to the biggest refineries in the other country. Supplying coscifera biodiesel to the other manufacturing companies as a source of energy is also one of the plans of the firm. The researchers use questionnaire in gathering information. This study emphasizes the concern of petroleum companies to an environment friendly product. The proponents objective is to gain knowledge in establishing a business.
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WASTE MANAGEMENT	BSIE / 38 / 2015	Barro, Jessilyn L. ; Borsoto, Liezel D. ; Castor, Rey-Ryan Christopher M. ; Comendador, Manilyn C. ; Garcia, Ethel Deonna A. ; Pormento, Odrareg G.	JMELCO Fuel from Municipal Solid Waste	<p>The Philippines, like all developing countries today is facing an increase in the generation of waste. The management of municipal solid waste has been subject to major developments during the past 20 years. Major progress was made in all areas of waste management but the introduction of anaerobic digestion into the treatment of MSW is one of the most successful and innovative technology developments observed during the last two decades in the waste management field. The researchers gained ideas to create JMELCO Fuel Company that supports the environment and ecosystem to be green and healthy. It will be located at Brgy. Antipolo, San Pascual, Batangas. This is the preferred place for it is accessible for marketing, seeking labor supply, with electricity and is a flat land. The proponents believe that producing this proposed fuel may help in organic waste management and climate change mitigating potential as well as methane production. JMELCO fuel is made mainly from municipal solid waste from San Pascual Batangas which emits landfill gas or LFG, consisting of CH₄, CO₂ and other gases. The municipal waste from the landfill at Antipolo, San Pascual Batangas will be the raw materials of JMELCO fuel.</p>
WINE MANUFACTURING	BSIE / 19 / 2010	Manalo, Maj A. ; Martinez, Laura Flor D. ; Ontiveros, Richard M. ; Verdan, Lorelyn S.	Manufacturing of Don Juan - Tomato Wine	<p>The VOMM Royale Winery Manufacturing took the risk of entrepreneurship. VOMM manufactured the product - Don Juan Tomato Wine which main ingredient is tomato and was put up to develop and sell a high quality but affordable tomato wine to serve the needs of people in Batangas and other neighboring provinces.</p>