

USEPA Regional 9 Pacific Island Office

Annual Pacific Island
Environmental Conference
In Sapien (June 22-25, 2004)

The Purpose of this session is to continue discussion of the 2003 Pacific Island Legislature and Executive Resolutions to promote a regional approach to recycling in the pacific.

Factors to consider in doing Recycling Business in Micronesia

- **1. Shipping Cost from Micronesia to Far East Buyers.**
- **2. Cargo quantity and type of vessels to use.**
- **3. Type of recycle materials for processing**
- **4. Segregation & documentation.**
- **5. Handling & Stockpiling.**
- **6. Equipment and machinery.**
- **7. Marketing & Sale.**
- **8. Assistance from Government & Business entity's.**
- **9. Implementation of Recycling Fees.**
- **10. Sample of Financial analysis.**
- **11. Conclusion & Suggestion.**

Cost of Shipping

Far East Micronesia Line Established Cntr Recycling Rates as of May 2004

Guam to HK/Mnl/Tw/Busan;-

| <u>Cntr Type</u> | <u>From</u> | <u>To</u> | <u>Ocean Fr</u> | <u>Wfg</u> | <u>Hdlg</u> |
|------------------|-------------|-----------|-----------------|------------|-------------|
| 20' | Yap & Palau | Far East | 1,500 | All in | All in |
| 40" | Yap & Palau | Far East | 1,800 | All in | All in |

Mariana Express Line Established Cntr Recycling Rates as of May 2004

Guam to HK/Tai and China :-

| <u>Cntr Type</u> | <u>From</u> | <u>To</u> | <u>Ocean Fr</u> | <u>Wfg</u> | <u>Hdlg</u> |
|------------------|-------------|-----------|-----------------|------------|-------------|
| 20' | Micronesia | Far East | 1,500 | All in | All in |
| 40" | Micronesia | Far East | 1,800 | All in | All in |

Above 2 Carriers do not carry break bulk cargo, only containerized cargo Cy/Cy.

Kyowa Line Offer Break Bulk Cargo From Micronesia to Far Eastern Port :-
HK/Tai/Japan/Korea. However, Bulk shipment is based on case by case basis,
subject to cargo space availability & ocean freight rate to be negotiate, depend on
loading & discharging rate per day.

Container Rate :-

| <u>Cntr Type</u> | <u>From</u> | <u>To</u> | <u>Ocean Fr</u> | <u>Wfg</u> | <u>Hdlg</u> |
|------------------|-------------|-----------|-----------------|------------|-------------|
| 20' | Micronesia | Far East | 1,500 | All in | All in |

Cargo Quantity & Type of Vessel to Use

- Due to the cargo volume in the Micronesia Islands being approximately less than 500 metric ton per month. The carrier like Kyowa Line, have the break bulk capacity, but are unwilling to accept the small cargo tonnage, as it will jeopardize their empty containers returning to the loading port. If the export tonnage is over 3000 tons per shipment per port of call. Vessels chartering is feasible, depending on the charter rate.
- However, most suitable method of shipment, is to use container liner vessels.
- Such as FML, MEL and or Kyowa Line. Because their vessels calling regularly, either on a month to month or week by week basis. Shipper can depend of their own production merit with out big difficulty

Loading Scrap by Break Bulk Vessel



Loading scrap by Container



Collection of recycle materials for processing

Marketable Materials are as follow:-

- **Iron & Steel material:**Rebar, beam, plate, channel, angle, junk car etc.
- **Aluminum materials:** Cans, window frame, cable, engine block etc.
- **Copper and brass materials:** Electric cable, telephone wire, hot water pipe, copper plate, radiator, condenser, water meter, pump etc.
- **Lead materials :** Lead pipe & cable, battery etc.
- **Paper materials:** Newspaper, computer card, cartoon box, packing material etc.
- **Computer:** Motherboard, computer card, computer cable, monitor, keyboard etc.
- **Plastic:** Plastic bottle, computer casing, printer, keyboard tray etc.

Segregation & documentation recycle materials

It is very important to segregate products as per buyer's instruction. The price of each type of recycle material varies largely. Normally, buyers do not want material to be mixed in one container.

Shipping documents and reports must be carefully prepared, as arriving cargo will encounter large penalties by discharging port's customs. Full co-operation and understanding is the assurance of future continuous business, between seller and buyer.

- 1. No impurity or foreign material mixed with the product.**
- 2. Products combined shipments must be weight, pack and label.**
- 3. Bill of lading, invoice and package list must specify clearly .**
- 4. Cargo survey report regarding weight and type of commodity in loading port normally required by buyer. If there is no surveyor available in the Micronesia Island, prior arrangement must be made.**

Loading 3500 M/T of Break Bulk scrap on the Vessel. Using Ship's derricks, Shore side support with Tractor trailer. Hauling two 10 ton bucks with a 20 ton F/L moving the buckets from truck to ship side. The Loading rate about 750 M/T per day



Processing and segregation of Iron & Steel by cutting into sizes that can be loaded in the container or vessel.



Processing and segregation of Iron & Steel materials, baled it in to bundle size of 3'x4'X4'



Processing and segregation of light Iron & Steel baled it in to bundle size of 1'X1'x2'



Processing and segregation of Aluminum cans and baled it in to bundle size of 2'X2'x3' block.



Segregation of copper cable, radiator, mixed aluminum & battery



Handling & Stockpiling of Material

Processing of the recycling material must comply with the international scrap definition. Selling price is based on how the material is being prepared. Once the material is processed, it should be stockpiled appropriately.

Buyer frequently will inspect materials prior to shipment. Until working relation is built, inspection will apply. If materials are not stockpiled properly and materials become mixed together, buyer will refuse shipment or postpone payment.

From the stockpile, exporter/operator can determine the quantity of sale and what type of vessel to engage. Then enter into sales agreement with buyer.

The followings are materials being processed and make ready for shipment.:-

Equipment and Machinery.

In order to produce recycle product that is marketable.

The proper Facility, machinery and equipment is detrimental for a successful operation.

Followings requirement are:-

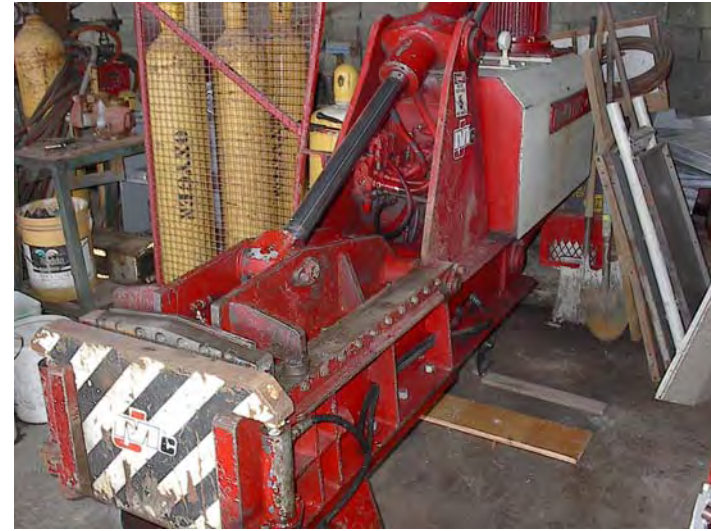
Land : 10,000 Sqft Meter – Collection Area 5,000 Sqm;
Stockpile & Loading area 2,000 Sqm; 3,000 Sqm for office
work shop etc.

Equipment : Cutting Machine, cable separating machine;
Oxygen & acct. set with hose, touch & tips; floor scale

Machineries : Baling machine for aluminum & iron and steel;
5 tons fork lift; excavator with clam shell and finger; 10 ton
dump truck and 3 ton flat bed.

Followings pictures of the equipment & machineries for
illustration purpose.

Cutting machine; cable separating machine; Ox & Acct Set



5 Ton Fork Lift



Heavy Duty Baling Machine



Iron & Steel Baling Machine From China

兴发液压机械制造

XINGFA hydro-machine manufacture co.,ltd.

立式打包机、卧式打包机系列



YG-81-100 卧式打包机

| YG-81系列液压打包机 |

主要适用于处理塑性金属废料(如:金属边角料、钢刨花、废钢、废铝等)。挤压成为高密度的冶炼原料。以降低运输和冶炼成本,是金属回收部门理想的加工设备。



YG-81-125A全自动卧式打包机

| 产品特点 |

- 1) 各种机型均采用液压驱动,有手动操作与PLC自动控制操作;
- 2) 出包有:前推包和翻包,还有侧出包;
- 3) 无电源的地方可配用柴油发电机作动力;

主要技术参数:

| 项目 | 单位 | 产品型号 | | | | | | | | |
|--------------|------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | | YG81-630 | YG81-1000 | YG81-1250 | YG81-1000 | YG81-1000A | YG81-1250 | YG81-1600A | YG81-2000A | YG81-3000B |
| 公称推力 | KN | 630 | 1000 | 1250 | 1000 | 1000 | 1250 | 1600 | 2000 | 2000 |
| 压缩室尺寸(长X宽X高) | mm | 1000X800X300 | 1000X1000X300 | 1250X1000X300 | 1300X1000X300 | 1300X1000X300 | 1200X1000X300 | 1600X1000X300 | 1600X1200X300 | 1800X1400X300 |
| 包块尺寸(长X宽X高) | mm | 1100-1200X200X200 | 1200-1300X200X200 | 1300-1400X200X200 | 1300-1400X200X200 | 1300-1400X200X200 | 1300-1400X200X200 | 1600-1800X200X200 | 1600-1800X200X200 | 1800-2000X200X200 |
| 包块密度 | kg/h | >>2000 | >>2000 | >>2000 | >>2000 | >>2000 | >>2000 | >>2000 | >>2000 | >>2000 |
| 生产效率 | kg/h | 1000-1200 | 1200-1500 | 1200-1800 | 1000-1200 | 1200-1500 | 1500-2000 | 2000-2500 | 2500-4500 | 2500-4500 |
| 单次循环时间 | s | 90 | 120 | 120 | 80 | 100 | 80 | 150 | 160 | 160 |
| 配用功率 | kw | 7.5 | 11 | 11或15 | 15或18.5 | 18.5或22 | 18.5或22 | 22 | 30或37 | 30或37 |
| 出包操作手法 | | 翻包,手动操作 | 翻包,手动操作 | 翻包,手动操作 | 翻包,手动操作 | 翻包,手动操作 | 翻包,手动操作 | 翻包,手动操作 | 翻包,手动操作 | PLC全自动 |



YG82系列双缸立式打包机

| YG82系列及YB81系列打包机 |

广泛用于棉纱布、麻、羊毛、纸皮、废铝、废铜、废铁、不锈钢边角料等松散料压缩打包,压出的包块外形尺寸统一,比重密度大,适合集中装箱运输的需要。



YG82系列单缸立式打包机

| 特点 |

- 1) 该系列无需地下基础,油缸立式安装,占地面积小,操作简单,实用。有手动控制和电动控制;
- 2) 有单缸、双缸、多缸设计。

主要技术参数:

| 项目 | 单位 | 产品型号 | | | | |
|-------------|----|------------|---------------|------------|--------------|--------------|
| | | YG82-250 | YG82-300 | YG82-500 | YG82-600 | YG82-1000 |
| 包型尺寸 | mm | 100X45X80 | 90X60X45 | 100X60X60 | 90X60X45 | 100X65X45 |
| 外型尺寸(长X宽X高) | mm | 180X65X370 | 128X94X320 | 160X96X590 | 129X95X335 | 143X105X320 |
| 包重 | kg | >>100 | >>50 | >>100 | >>150 | >>180 |
| 用途 | | 针纺织打包 | 纸皮、塑料、不锈钢、薄铁皮 | 化纤生产专用 | 不锈钢、废铝、废铜、废铁 | 不锈钢、废铝、废铜、废铁 |

Aluminum Baling Machine



Battery & Plastic Processing Machine From China

GUANGSHUN SULIAO JIXIE

廣順塑料機械廠



250型、400型塑料破碎机

采用先进技术参数、性能而改良设计，破碎机体是用45°钢板材料焊接制造，结构坚固耐用，产量比普通破碎机高出一倍多。
电功率：7.5KW、11KW



牵引机

此机设计简单合理，操作方便，是生产管材、生产线不可缺少的产品。



结构与特点：

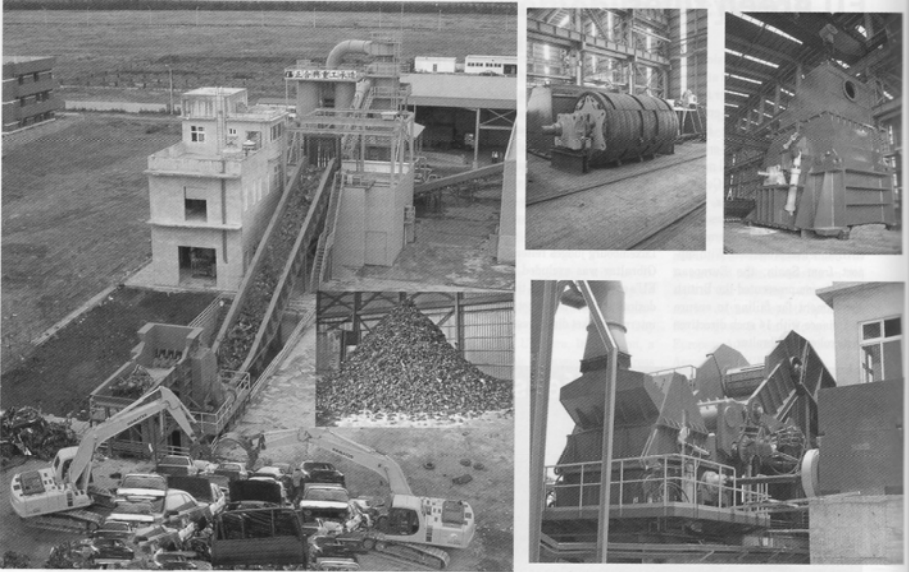
随着挤出机形成工艺的发展，提高挤出机的产品塑化效果要求，本机适用于有机玻璃、板材的挤出。机型规格可按客户要求订造。

Excavator with Clam Shell



Taiwan Manufacturer of Heavy Machinery for scrap

正合興重工業股份有限公司
CHENG HO HSING HEAVY INDUSTRIES CO., LTD.
SHREDDERS AND SEPARATION SYSTEMS



HYDRAULIC SCRAP SHEARS

PRESHREDDERS

- LOW INVESTMENT
- EASY OPERATION
- HIGH RETURN RATE

Manufacturer of Scrap Handling Equipment in States



All our machines are complete repaired, serviced and checked.
We can arrange worldwide transport. We are also specialised for spare part service worldwide. For more informations please call +49 751 500 425

Visit the biggest machinery show in the world.
www.kiesel.net

Materialumschlagmaschinen
material handling machines

Baumaschinen
construction machinery

Gebrauchsmaschinen
used equipment



FUCHS 713MU-C
7 units, with generator and grab



FUCHS 714MU-C
4 units, with generator and grab



FUCHS MHL320
3 units, 9,5 m reach
2000 / 1999



FUCHS MHL330
1997, 2780 hours
special price



FUCHS MHL330H
1996 log handler
all options



FUCHS MHL331
5 units
2001 / 2000 / 1999 / 1998 / 1996



FUCHS MHL340
4 units, 12,5 m reach
1999 / 1998 / 1997 / 1997



FUCHS MHL350
5 units, 15 m reach !!!
1993 - 2003 all options



FUCHS MHL360
2 units, 18 m reach, generator,
A/C, 2000 / 1999



FUCHS MHL430
original 400 hours, all options
2001, ask for price



LIEBHERR A912 Litr.
all options, complete repaired
new engine, 1992



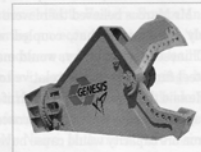
LIEBHERR A922 Litr.
generator, highlift cabin
very nice machine, 1996



KOMATSU WA470-5
2.100 hours, bucket, new tires
2002



with Genesis quick connect
change your tools in 10 seconds



GENESIS GMS1000
mobile monster scab here



GENESIS GMS300
mobile scab here
new + used

...100 more material handlers from 25.000 - 150.000 Euro

Kiesel GmbH, Baldnter Straße 21, D-88255 Baienfurt/Ravensburg
Telefon +49 (0)751 500 425 Telefax +49 (0)751 500 446

Marketing & Sale

Internet Website is a good place to learn about the trade, a lot of information is available for your reference.

Contact a broker, who can the connections with buyers in China, Korea, Japan, Hong Kong and Taiwan etc.

Good buyer: China is the biggest buyer in the Far East, they buy all kind of recyclable materials. Because their labor is cheap, they can segregate and still able to sell for profit. Japan only buy cleaned and well processed materials. Korea is kind of in the middle between China and Japan. They buy semi-segregated materials. Hong Kong basically working as broker or middleman. Sometimes, they will re-process the material and sell for a higher price. Taiwan is a good market for recycling materials, but they also very particular about the quality of the product they import.

The price levels, please reference to the following sample spread sheet, indicated in the Income & Expense projection on Guam.

The following are web sites you can contact and browse through.

Web Site 1

- [Automotive cores and scrap buyer Scrap and Cores.com pays cash](http://www.scrapandcores.com/automotive_cores.htm) Automotive **scrap** and automotive cores **buyer Scrap** and Cores.com pays cash for automotive **scrap**, industrial **scrap** and automotive cores. ... Automotive cores and **scrap** metal **buyer. Scrap** and Cores.com has been in business for over 15.
www.scrapandcores.com/automotive_cores.htm
- [Automotive Scrap, Diesel Engine Cores, Gas Engine Cores Buyer](http://www.scrapandcores.com) Automotive **scrap** and automotive cores **buyer Scrap** and Cores.com pays cash for automotive **scrap**, automotive cores, diesel engine cores, gas engine cores, transmission cores and differential cores....
www.scrapandcores.com
- [Industrial Plastic Scrap Buyer - Midwest Plastics Recycler](http://scrapplasticsrecycler.ersg.us) Industrial Plastic **Scrap Buyer** and Plastics Recycler. Plastics Identification. Recycling industrial plastic waste: polyethelene, polypropolene, pvc, polystyrene, poly vinyl chloride, pvc,
scrapplasticsrecycler.ersg.us
- [Scrap metal buyer, dealer high temperature alloy scrap - Globe Metal](http://www.globemetal.com/overview.php) Globe Metal is a **scrap** metal dealer and **buyer** of industrial metals such as high temperature alloy scraps. ... We are a **scrap** metal **buyer** and dealer, specializing in the processing of all industrially generated metals, high temperature alloy **scrap** and carbide as well as grinding ...
www.globemetal.com/overview.php
- [A+ Scrap Buyer in Global Recycling Network --- Industry Directory](http://grn.com/trade/aa658979.html) A+ **Scrap Buyer** is registered in the Industry Directory at Industry Directory. A+ **Scrap Buyer**. Buy **Scrap** Aluminum. A+ **Scrap Buyer**. Fresh Meadows New York ...
grn.com/trade/aa658979.html
- [11-97 New Steel: Scrap: How to improve scrap buying: Define specs better, communicate more](http://www.newsteel.com/features/NS9711f6.htm) ... Quality is the hottest issue in today's **scrap** market. Unlike a few years ago, www.newsteel.com/features/NS9711f6.htm
- [Scrap Page](http://www.jupiteraluminum.com/SCRAP.htm) ... OUR **SCRAP BUYER** IS: TAMMY RINKEMA ... Assistant to **Scrap Buyer**. MARI JO KINSEY ...
www.jupiteraluminum.com/SCRAP.htm

Scrap Web site 2

- [MetalWorld -- Scrap Metal Recycling Section](http://www.metalworld.com/a/0100.html) is a business-to-business trading community hub for raw material commodity exchanges in **Scrap** Metal Recycling and other similar kinds of materials. www.metalworld.com/a/0100.html
- [Scrap Magazine - People](http://www.scrap.org/people.htm) ... as well as new and ongoing projects for the company in **scrap** optimization, **scrap** handling, and **scrap** processing ... was a copper and brass **scrap buyer** for ingotmaker Colonial Metals Co ... www.scrap.org/people.htm
- [Want Ad: BUYER OF SCRAP COPPER WIRE AND ALUMINUM WIRE!](http://www.ioffer.com/viewWantAd.do?wantedID=14947) Community. My offer. Search. Help / FAQ. **BUYER OF SCRAP COPPER WIRE AND ALUMINUM WIRE!** Want Ads > Miscellaneous > Other > Want Ad # 14947. Looking for: WILL BUY YOUR **SCRAP COPPER AND SCRAP ALUMINUM WIRE**, WILL NEGOTIATE SHIPPING, CONTACT US NOW! www.ioffer.com/viewWantAd.do?wantedID=14947
- [Non~Ferrous Scrap Metal Recycling -- Scrap Aluminum Recycling Category](http://www.recycle.net/Metal-N/Aluminum) Recycle.Net is a business-to-business trading community hub providing Global Access to Recycling Markets in **Scrap** Aluminum Recycling and other similar kinds of materials. ... A Recycling Center. A+ **Scrap Buyer**. A-1 Hauling Inc. A-1 Recycling (CA) A-1 **Scrap**. A-Ten-C, Inc ... Burnaby,BC) ABC Salvage and **Scrap** Metal. ABC Traders Ltd ... www.recycle.net/Metal-N/Aluminum
- [Global Recycling Network -- Scrap Metal Recycling Section](http://www.metalworld.com/a/0100.html) is a business-to-business trading community hub for raw material commodity exchanges in **Scrap** Metal Recycling and other similar kinds of materials.

Assistance from Government & Business Entity (Page 1)

Recycling in Micronesia requires Government and private businesses participation and financial assistance.

The fact is that most of the Micronesian islands are thousands of miles away from Guam. Therefore the shipping rate is more than double in comparison to Guam.

Local Government should allot free land usage for construction of a recycling facility and also purchase of all major essential machineries and equipments for recycling all the material.

Assistance from Government & Business Entity (Page 2)

Private enterprises, to negotiate a semi-donation shipping rate with carrier which serve the islands in Micronesia. Oil companies such as Mobil Oil Company and Air Lines such as Continental, should participate and help the recycling project to move ahead.

As we believe that “ALL LIVING THINGS OF THE EARTH ARE ONE” recycling is the major objective.

A recycling fee for all kind of materials, should be implemented. The funds received should be put forward for financing the continuation of the recycling projects.

Recycling Fees

- **The following is the recycling fees presently being implemented on Guam**

| | |
|--|-----------------|
| • Standard Price: Including pick up Automobile | \$150 |
| • Appliance w/o Freon | \$20 |
| • Appliance w/ Freon | \$28-\$32 |
| • Passenger Tires | \$5.50 |
| • Commercial Truck Tires | \$10.50-\$20.50 |
| • Loose Metals (Pick-up truck load) | \$50 |
| • Loose Metal dump truck load per cubic yard | \$5.00 |
| • Batteries | \$10 |
| • Wood Pallets | \$2 |

A Sample of a Guam Scrap Operation

Income and Expense Projection

| | | Buying | Metric Ton | Monthly | |
|------------------------------|---------------|-----------------|-------------------|-----------------------------|------------------|
| | In Lbs | Per lbs | Per month | Income & Expense | |
| Name of Material | 2204 | | | | |
| Sales : | | Price/MT | | | |
| Aluminium Cans | | \$1,350.00 | 35.00 | 47,250 | |
| Mixed Aluminium | | \$1,350.00 | 25.00 | 33,750 | |
| Copper | | \$1,750.00 | 25.50 | 44,625 | |
| Computer Scrap | | \$125.00 | 24.00 | 3,000 | |
| HMS - Iron & Steel | | \$85.00 | 500.00 | 42,500 | |
| Bundle Scrap Iron & Steel | | \$88.00 | 1000.00 | 88,000 | |
| Battery | | \$0.00 | 2.00 | 0 | |
| Total Sales | | | | \$259,125 | |
| | | | | | |
| Recycling Fee: | | | | | |
| Aluminium Cans | | \$0.00 | 37.00 | 0 | |
| Mixed Aluminium | Per M/T | \$0.00 | 27.50 | 0 | |
| Copper | Per load | \$50.00 | 2.00 | 50 | |
| Computer Scrap | Per Load | \$50.00 | 3.00 | 50 | |
| HMS - Iron & Steel | Per Load | \$150.00 | 25.00 | 3,750 | |
| Bundle Scrap Iron & Steel | None | \$0.00 | 0.00 | 0 | |
| Battery | Per Piece | \$15.00 | 160.00 | 2,400 | |
| Total Collected Fees: | | | | \$6,250 | |
| Gross Monthly Revenue | | | | | \$265,375 |

| | | | | | |
|-------------------------------------|---------------|----------|---------|--------|------------------|
| Cost of Goods Sold: | | | | | |
| Aluminium Cans | | \$0.30 | 37.00 | 24,464 | |
| Mixed Aluminium | | \$0.30 | 27.50 | 18,183 | |
| Copper | | \$0.40 | 26.00 | 22,922 | |
| Computer Scrap | | \$0.05 | 25.00 | 3,000 | |
| HMS - Iron & Steel | | \$45.00 | 650.00 | 29,250 | |
| Bundle Scrap Iron & Steel | | \$48.00 | 1000.00 | 48,000 | |
| Battery | | \$0.00 | 120.00 | 0 | |
| Total Cost of Goods Sold | | | | | \$145,819 |
| Gross Profit | | | | | \$119,556 |
| Operating Expenses: | | | | | |
| Salaries and wages | | | | 1,500 | |
| Manager | 1 | | | 2,750 | |
| Field worker | 5 | | | 5,100 | |
| Machanic | 1 | | | 1,750 | |
| Equipment Operator | 2 | | | 2,380 | |
| FICA Tax | 7.65% | | | 1,031 | |
| Scrap Yard Rental | | | | 750 | |
| Management Fee | | | | 1,750 | |
| Utilities | | | | 375 | |
| Repairs and maintenance | | | | 575 | |
| Insurance | | | | 1,750 | |
| Travel | | | | 1,000 | |
| Telephone | | | | 250 | |
| Postage | | | | 50 | |
| Office supplies | | | | 135 | |
| Advertising | | | | 350 | |
| Freight Guam to Far Eastern | Per Container | \$650.00 | 81 | 52,374 | |
| Guam Inland Trucking | Around Trip | \$150.00 | 79 | 11,824 | |
| GRT | 4% | | | 10,615 | |
| Total Expenses per month: | | | | | \$96,309 |
| Profit Before Tax per month: | | | | | \$23,247 |
| | | | | | |

Conclusion & Suggestion P-1

The set backs of recycling in Micronesia are:-

(1) High Cost of Shipping. Almost 200% higher than Guam.

(2) The lack of experience in handling & processing of the recycling materials.

(3) The high cost to purchase the necessary equipments and machineries.

(4) The lack of contacts and experiences in marketing and the sale of materials.

Conclusion & Suggestion P-2

To over come the above we suggest:-

- (1) To discuss with existing liner services, such as Kyowa Line, Far East Micronesia Line and Mariana Express Line to give a special recycling rates to the Micronesia Inlanders.**
- (2) To solicit a recycling Company who has the knowledge and experience to handle processing and marketing of the recycling material in Micronesia. The qualification must meet the following Criteria :-**
 - a. 5 year working experience in processing ferrous & non-ferrous materials.**
 - b. Owned and managing recycling equipments and machineries no less then two years.**
 - c. Proof of exporting recycling material to other country no less than 50,000 M/T per year.**
 - d. Have chartering vessel experience for at least 3 to 5 voyage a year.**
 - e. Evidence to show contract of sale no less than 10,000 M/T per year.**
- (3) To discuss with the Micronesian government to implement a recycling fee in their island, so that money can be generated to help finance the purchasing of the equipment and machineries.**

END OF PRESENTATION