



Responsible Business Fund (RBF) Myanmar



Why RBF Myanmar was established?

- **MSMEs in Myanmar are critical for driving economic growth, job creation and poverty alleviation. - Source of livelihoods for over 80% of the population.**
- **MSME and Private Sector Development strategies carry the risk of ‘carbon-intensive’ and ‘not-so-responsible’ growth as observed in several countries.**
- **Since Myanmar embarked on an intensive economic growth relatively late, MSMEs have the unique opportunity of benefitting from the latest technologies that make ‘low carbon’ / ‘green’ / ‘responsible’ growth, a commercially viable option.**
- **Due to several decades of exclusion from the global markets, MSMEs in Myanmar are unaware of new technologies/responsible practices, still relying on old methods.**
- **Hence the need to use demonstrations by MSMEs to prove the ‘commercial feasibility’ and ‘business case’ for private sector investments in responsible technologies/business practices.**

About RBF

- RBF was established with the intent of leveraging local private sector abilities to deliver ‘economic’ and ‘environmental’ development results in a sustainable manner.
- RBF is a DKK 125 Million ‘Challenge Fund’ to “increase the competitiveness and responsible behavior of Myanmar enterprises” by providing partial grants to MSMEs for the implementation of projects with a potential to demonstrate ‘Responsible Technologies/Business Practices’.



Established

August

2017

Grants to MSMEs

19,827

Million MMK

Number of Grantees

617

MSMEs

Coverage

15

States & Regions

RBF Support

7 Areas



Area 1

Energy Efficiency

- **Solar Photovoltaic (PV) Systems**
- **Solar Submersible Pumping Systems**
- **Biomass Boilers**
- **Energy Efficient Motors and Compressors**
- **Energy Efficient Sewing Machines**
- **Energy Efficient Dryers**



Area 2

Water Efficiency

- **Dissolved Air Flotation (DAF) System**
- **Drip Irrigation System**
- **Sprinkler Irrigation System**
- **Hydroponics and Aeroponics**



Area 3

Waste Treatment & Recycling

- Biomass Briquetting and Pelleting Systems
- Waste Minimizing Rice Husk Gasifiers
- Plastic Washing and Recycling Line
- Agro-waste to Organic Fertilizer Production Line
- Waste-Water Treatment Plants
- Biomass Grain Dryers
- Production of Tissue Paper from Waste-Paper



Area 4

Occupational Safety & Health

- **Evaporative Cooling System**
- **Fire Safety System**
- **Ventilation System**
- **Modernized Rice Milling Facility**
- **Farm Mechanization Equipment (Combine Harvesters, Spray Drones)**



Area 5

Food Safety

- Solar Dryer Dome
- Electric Dryer
- Heat Pump Dryer
- Epoxy Floor
- Food Packaging Equipment
- Cold Storage and Transport System



Area 6 & 7

Managerial & Supervisory Skills

Practical & Technical Skills

- Managerial & Supervisory Skills Training at: Garment; Construction; Wholesale & Retail; Health & Hospitality Sectors
- Environmental Management System (EMS) Training
- Practical & Technical Skills Training at: Manufacturing; Restaurant; Tourism; and Electronics Sectors
- Human Resource/Social Compliance and Productivity Improvement Program within Garment Sectors



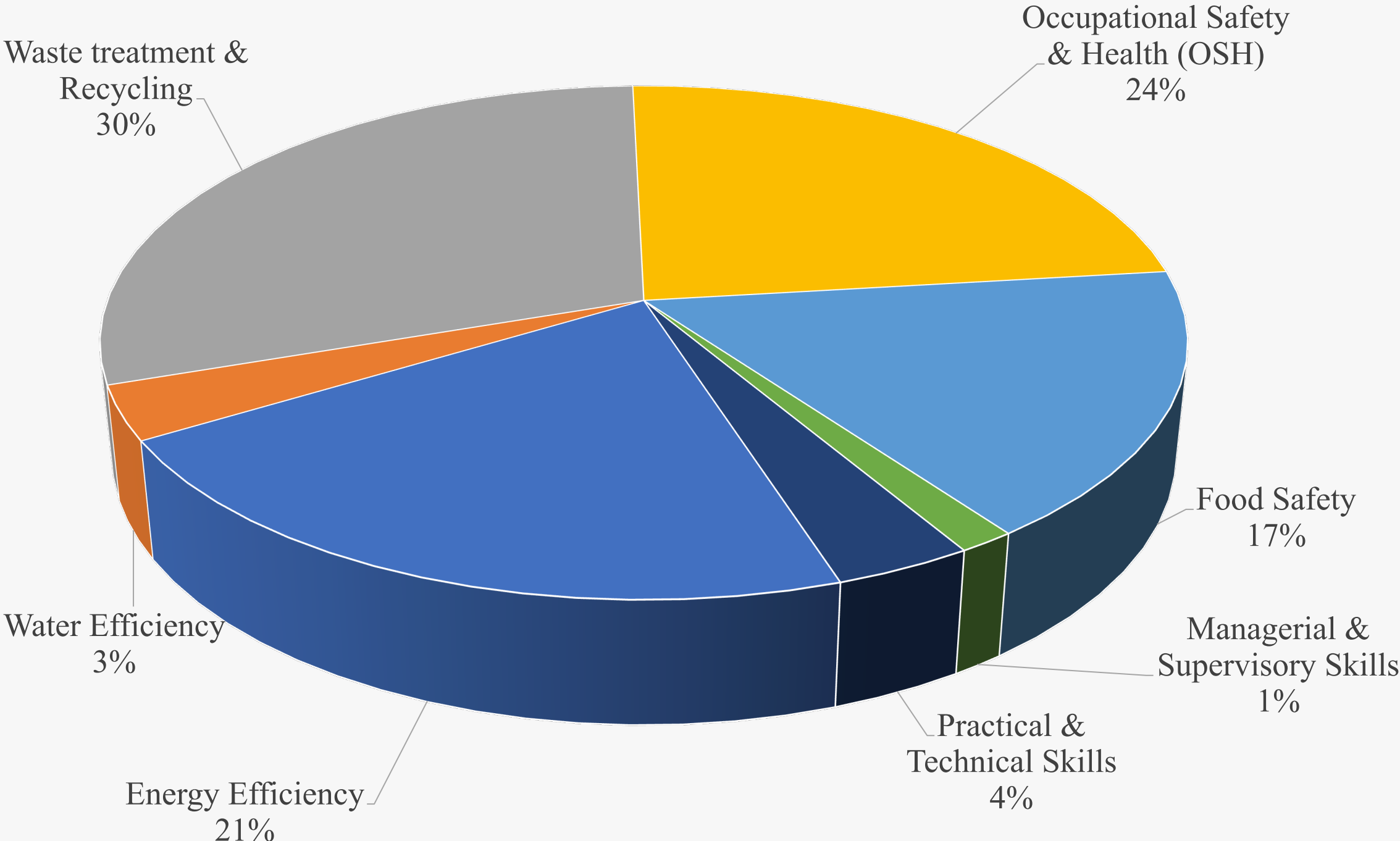
Overview - Calls for Proposals – 2017 to 2022

Number of	1st Call	2nd Call	3rd Call	4th Call	5th Call	Total
SMEs submitting Concept Notes	163	233	366	355	402	1,519
Project ideas approved	160	224	188	168	284	1,024
Project ideas disqualified by RBF-SEC	34	25	150	163	118	490
Project Proposals submitted by SMEs	114	181	148	143	258	844
Project Proposals disqualified / withdrawn	8	3	10	5	12	38
Project Appraisal Notes submitted to RBF Board	106	178	138	138	175	735
Number of Grants Requests submitted to RBF Board	120	202	210	141	248	921

Implementation Overview - Approved RBF Projects

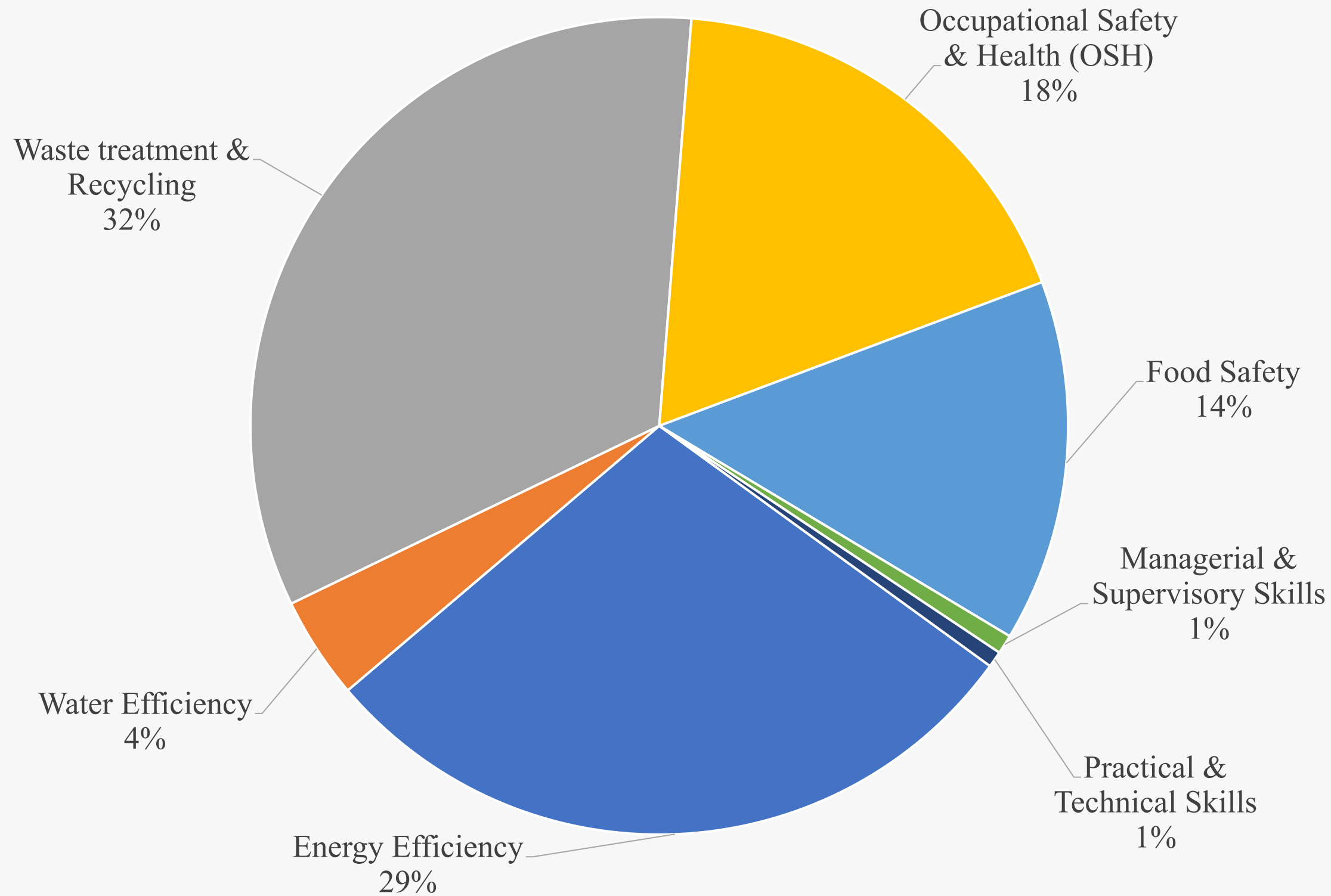
Status	1st Call	2nd Call	3rd Call	4th Call	5th Call	Total
Number of Grants approved	117	185	202	141	248	893
Number of Drop-Out Cases Unable to fulfill conditions of approval	31	27	78	56	84	276
Number of Projects Implemented	86	158	124	85	164	617

Number of RBF supported Demonstrations - 7 Areas



Area	Number of Grants
Energy Efficiency	132
Water use Efficiency	21
Waste treatment and Recycling	184
Occupational Safety & Health (OSH)	145
Food Safety	104
Managerial & Supervisory Skills	9
Practical & Technical Skills	22
Total	617

Distribution of RBF Grants – 7 Areas of support



Area	RBF Grants in Million MMK
Energy Efficiency	5,709
Water use Efficiency	802
Waste treatment and Recycling	6,626
Occupational Safety & Health (OSH)	3,575
Food Safety	2,840
Managerial & Supervisory Skills	150
Practical & Technical Skills	126
Total	19,827

Geographic/Gender Distribution - RBF Supported Demonstrations



States & Regions	1 st Call	2 nd Call	3 rd Call	4 th Call	5 th Call	Total	Managed by Women	Owned by Women
Ayeyarwady	3	2	11	3	5	24	6	1
Bago	4	7	5	4	10	30	4	2
Chin	1	3	1	2	0	7	2	2
Kachin		1		19	45	65	32	26
Kayah		2		1	1	4	1	1
Kayin				1	11	12	4	2
Magway	1	4	6	5	5	21	6	6
Mandalay	5	51	7	14	8	85	21	18
Mon	3	2	1	2	2	10	2	2
Naypyidaw	1	2	2	2	5	12	2	2
Rakhine			2	14	52	68	6	11
Sagaing	1	9	46	10	4	70	12	7
Shan	20	31	10	4	2	67	19	14
Tanintharyi	3	1	2		2	8	0	0
Yangon	44	43	31	4	12	134	58	50
Total	86	158	124	85	164	617	175	144

Demonstrated Responsible Technologies/Practices

Area 1 – Energy Efficiency

No	Technologies
1	Solar Thermal Water Heating Systems
2	Induction Furnace Powered by a Micro Hydropower Project
3	Replacement of Fossil Fuel Boilers with Biomass Boilers
4	Energy Efficient Inverter Welding Machines
5	Energy Efficient Digital X-Ray Machines
6	Energy Efficient Printing Machines
7	LED Lighting Systems
8	Replacement of a Fossil Fuel (Gas) Fired Bakery Oven with a Biomass Fired Oven
9	Replacement of Polluting Traditional Tubular Furnaces with Energy Efficient Induction Furnaces
10	Replacement of Inefficient Engine with a Modern Energy Efficient Marine Engine for a Passenger Boat
11	Solar Photovoltaic (PV) System Installation
12	Solar Powered Pumping System
13	Energy Efficient Modernized Compressors
14	Energy Efficient Tea Dryer and Heat Pump Dryers
15	Energy Efficient Laser Cutting Machines

Demonstrated Responsible Technologies/Practices

Area 1 – Energy Efficiency

No	Technologies
16	Energy Efficient Hydraulic Vertical Baling Press for Cotton Mill
17	Energy Efficient Servo Motors for Sewing Machines
18	Modernization - Traditional Clay Brick Production to Cellular Light Weight Concrete Block Production
19	Replacement of Outdated Edible Oil Milling Equipment with Energy Efficient Edible Oil Expellers
20	Energy Efficient Mixer and Freezer for Bakery Business
21	Energy Efficient Automated Machines for Barbed Wire Manufacturing Factory
22	Energy Efficient Automated Machines for Metal Fabrication Factory
23	Energy Efficient Flexible Wide Weaving Loom Machines
24	Energy Efficient Metal Shredder and Crusher for Foundry Business
25	Energy Efficient Waste Minimizing Rice Husks Gasifier

Area 2 – Water Efficiency

No	Technologies
1	Drip and Sprinkler Irrigation System
2	Water Saving System in Automobile Washing Service
3	Hydroponics and Aeroponics in Agricultural Production

Demonstrated Responsible Technologies/Practices

Area 2 – Water Efficiency

No	Technologies
4	Steel Grit Shot Blasting to Substitute Aqua Blasting for the Elimination of Waste Water Pollution
5	Dissolved Air Flotation (DAF) System

Area 3 – Waste Treatment & Recycling

No	Technologies
1	Biomass Burners and Waste Wax Distillate Burners
2	Waste Water Treatment Plants in Leather, Food, Dairy, Rubber, Hotel and Plastic Recycling Sectors
3	eMarket Platform for Smart Waste Management and Recycling solutions
4	Upgrading Waste Management System at a Boarding House
5	Production of Organic Fertilizer from Agricultural Waste
6	Production of Ropes for Construction Industry from Plastic Waste
7	Coconut Coir Ropes and Organic Fertilizer from Coconut Shells, Fibre and Husk
8	Recycling of Waste Wood Cutting and Planks into Wooden Boards
9	Wood Processing Dust and Shavings (Waste) to Soft Wood Powder
10	Wood Cutting Waste to Plywood in a Guitar Production Facility

Demonstrated Responsible Technologies/Practices

Area 3 – Waste Treatment & Recycling

No	Technologies
11	Production of Joss Paper and Bamboo Handicrafts from Bamboo Waste
12	Recycling of Waste Lubricants (Engine Oil, Gear Oil, Hydraulic Oil, Turbine Oil etc.) through a 3 rd Party Mobile Oil Purification Service
13	Grain Dryer Using Waste Rice Husk
14	Recycling of Used Battery Waste and Scrap to Produce Reusable Lead, and Plastic
15	Biomass Briquetting and Pelleting Systems
16	Plum Seed Shell as a Source of Heat for a Modern Frying Machine at a Bean Snacks Production
17	Recycling of Plastic Waste to Plastic Flakes, Granules, Lumber and Nursery Bags
18	Production of Tissue Paper from Waste-Paper Using Heat from Waste Bamboo
19	Production of Yarn and Wrapping Paper from Waste Banana Stems and Pineapple Leaves
20	Areca Nut Tree Leaves Waste to Biodegradable (Disposable) Tableware and Cutlery items
21	Waste (Plastic Bottles and Metal Cans) Compacting and Baling by a Waste Recycling Business
22	Hydraulic Injection Machines and Moulds for Recycling of Plastic Waste
23	Waste Rice Husk to Animal Feed Supplement for Livestock Industry

Demonstrated Responsible Technologies/Practices

Area 4 – Occupational Health & Safety (OSH)

No	Technologies
1	OSH Infrastructure and Personal Protection Equipment (PPE) in Construction, Engineering, Food Processing, Welding and Furniture Sectors and OSH Training
2	Evaporative Cooling Systems
3	Fire Safety Systems
4	Ventilation Systems
5	Combine Harvester
6	Spray Drone
7	Modern Rice Mill
8	Mechanization Equipment for Agriculture

Area 5 – Food Safety

No	Technologies
1	Biomass Based Flatbed Dryers and Electric Dryers to Replace Sun Drying
2	Solar Powered Micro Cold Storage and Containerized Cold Storage Systems
3	Modern Safe Broiler Slaughter Systems

Demonstrated Responsible Technologies/Practices

Area 5 – Food Safety

No	Technologies
4	Safe Food Packaging Systems
5	Biosecurity Improvements to Achieve Food Safety System (FSSC) 22000 Certification
6	Dish washing, Steamers/Sanitizing Services for Restaurants
7	Geo-membrane Installation for Production of Salt without Soil Based Contaminants
8	Third Party/In-house Testing Laboratories for Food Safety
9	Solar Dryer Dome Installation
10	Food Safety Infrastructure in a Wide Range of Food Processing and Food Retailing Establishments and Food Safety Training

Area 6 & 7 – Skill Development – Managerial & Practical

No	Technologies
1	Training Managerial & Supervisory Skills Training at Garment, Construction, Sanitary Ware and Bathroom Fittings Distribution, Book Distribution and Health & Hospitality Sectors
2	Human Resource/Social Compliance and Productivity Improvement Program within Garment Sectors
3	Environmental Management System (EMS) Training
4	Practical & Technical Skills Training at Restaurant, Elephant/Eco Tourism, Mobile Phone Distribution and Food Processing Sectors

Annual Results & Benefits – RBF Supported MSMEs

Reduction in
Operational Cost



2,475

Million MMK (26%)

Improvement in
Profit

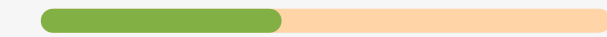


10,177

Million MMK (20%)

Annual Results & Benefits – RBF Supported MSMEs

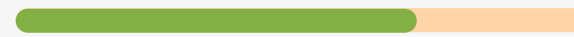
Reduction in **Electricity**



5,474,782

Kwh (36%)

Reduction in **Diesel Usage**



479,613

Liters (61%)

Reduction in **Coal Usage**



536

Tons (93%)

Reduction in **Water Usage**



1,810

Million Liters (53%)

Solid Waste Handled



177,942

Cubit Meter (557%)

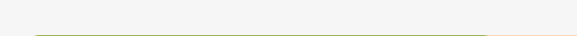
Liquid Waste Handled



614

Million Liters

Reduction in **Food Spoilage**



618

Million MMK (78%)

Sustainability through Replication

- Study Tours and Events Organized by MSMEs
- Produced Factsheets using data from Demo Projects
- Benefits Sharing on the social media platforms of MSMEs
- Organizing Series of Networking Events
- Over 200 known replications till date



Myat Zaw and Young Brothers Value Added Wooden Products Production
19 Sep 2019 · 🌐

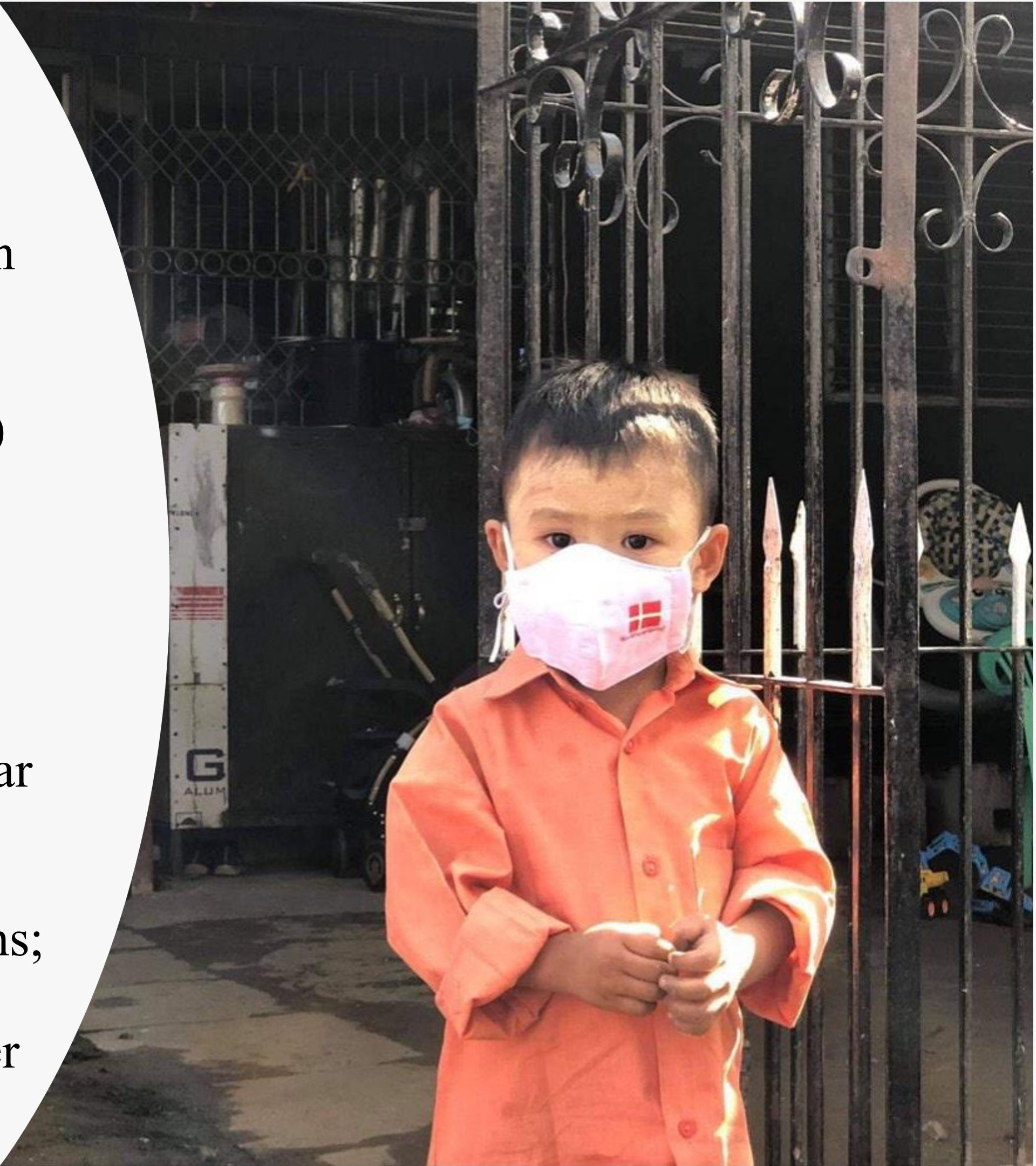
RBF-Myanmar မှ RBF grant ရရှိထားသော Clamp carrier နှင့် Sanding Machine စက်များအား လာရောက်ကြည့်ရှုပြီး waste to value project အတွက် ထားရှိရမည့် data system များ အကြောင်း ဆွေးနွေးမှုများ ပြုလုပ်ခဲ့ပါတယ်။

[Zawgi]
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COVID-19 Response Support

- Using the RBF's network of 11 garment factories, MMK 2.05 Billion was invested in the production and donation of:
 - 3,228,000 face masks - 2,898,000 reusable cloth face masks and 330,000 medical grade masks
 - 90,000 isolation gowns
- Distributed to healthcare staff, sanitation workers, street vendors, daily wage workers, and women and children throughout Myanmar using 60 organizations that include: YCDC; MCDC; Quarantine Centres; COVID-19 Prevention Committees; Medical Associations; Refugee Camps; Chambers of Commerce; Volunteer Organizations; Hospitals and Fever Clinics.



Thank You

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