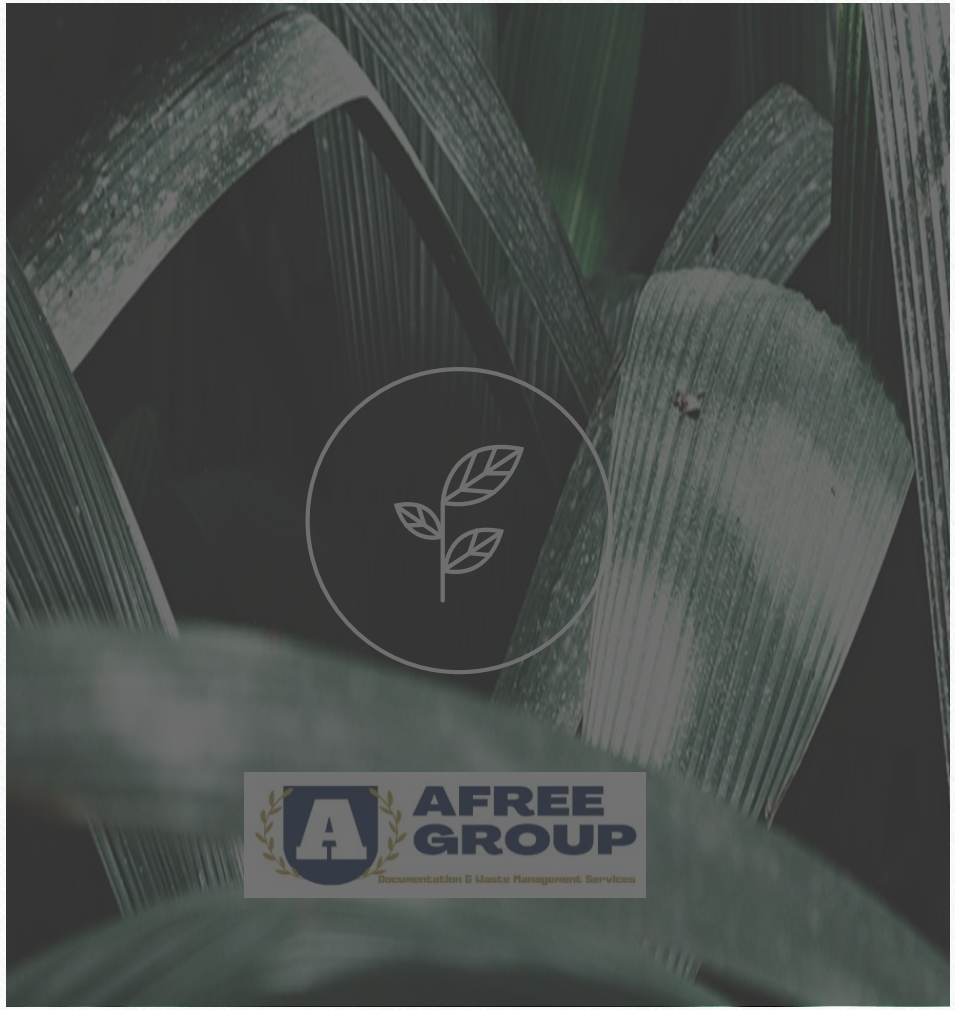
AFREE GROUP
Documentation & Waste Management Services

Afree Group

Documentation
&
Waste Management Services

OUR COMPANY



Afree Group is the closest firm to the Zinc Flake Coating and Waste Management Companies. However it is a bit smaller than globally recognized companies.

our major aim to provide a geninue services and become a most valuable brand of the country.

We are well known firm in Zinc Flakes Coating Business set-up and documentation services.We are establishing a new waste management Unit in Gurgaon HR (India)

MISSION STATEMENT

Our Mission is to be ,
and to recognized as,
The Premier Engineering Documentation & Waste Management company of the Indian Market.

CORE VALUES

Team Work

We are working together to make Afree Group Better.

Integrity

We model ethical behaviour.

Innovation

We are driven by continuous improvement..

Professionalism

We are qualified, skilled and committed..

Organization Chart

Mr. Bhagwan Rao
Chairman

Mr. Vijay Shailani
Chairman

Mr. Vivek Shalani
Director & Plant Head

Mr. Pankaj Rao
Project Manager

Mr. Mahendra Chaudhary
Maintenance Engineer

Mr. Diwakar Singh
Business Development Manager

Mr. Apurva Srivastva
Project Manager

Mr. Vishaka Patel
Customer Support Executive

Mr. Neeraj Rao
Founder & CEO

Mr Bhavesh Shalani
Plant Manager

Mrs Neelam Singh
Finance Manager

AFREE GROUP
Documentation & Waste Management Services

OUR SERVICES

PFD/Control Plan

It's a crucial document for automobile companies. It ensure all the parameters and its characteristics.PFD indicates the flow diagram of the process.

E-mail Fraudulent Verification

We verify the fraudulent email. We do not charge for this services.

ISO-Certification & Its Documentation

ISO Documentation and Its Certification by Registered Firm.

Zinc Flake Business Set-up Contract

Complete Business Set-up Support.

Waste Management & Recycling

Running MRF Center & Looking forward to establish Bio-Gas Unit and as well CNG.

Company Profile

Major in Coating,Plating & Waste Management Industries.

AFREE GROUP
Documentation & Waste Management Services

Documentation & Waste Management

Specialist in Zinc Flake Coatings Documentation.

-Free hand Layout

-Professional 2d/3d Layout.

-Incoming check sheet/Standard/Sop.

-Process verification/validation.

-Fire & Safety Documentations.

-Process Flow Diagram.

-Control Plan.

-Certificates Designer.

-Business Card/Letter Pad

-Interior Designer.

-Real Estate Map. And many more.

Reproduction Product.

1- PET.

2- Metals.

3- Carton Box.

4- Glass.

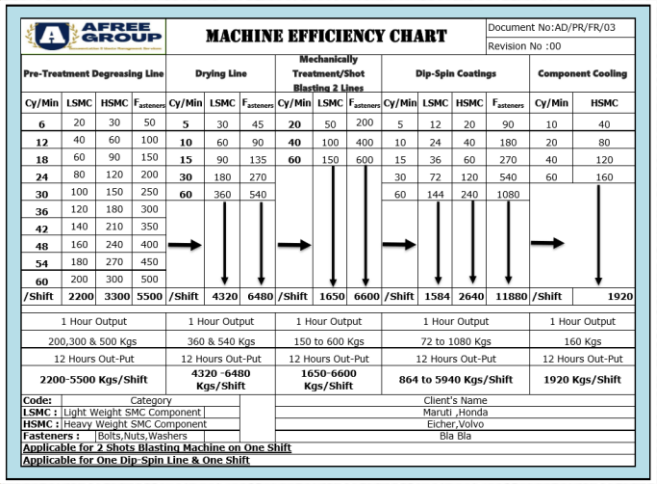
5- Aluminium.

6- Papers.

AFREE GROUP
Documentation & Waste Management Services

Document Sample

Machine Efficiency Chart



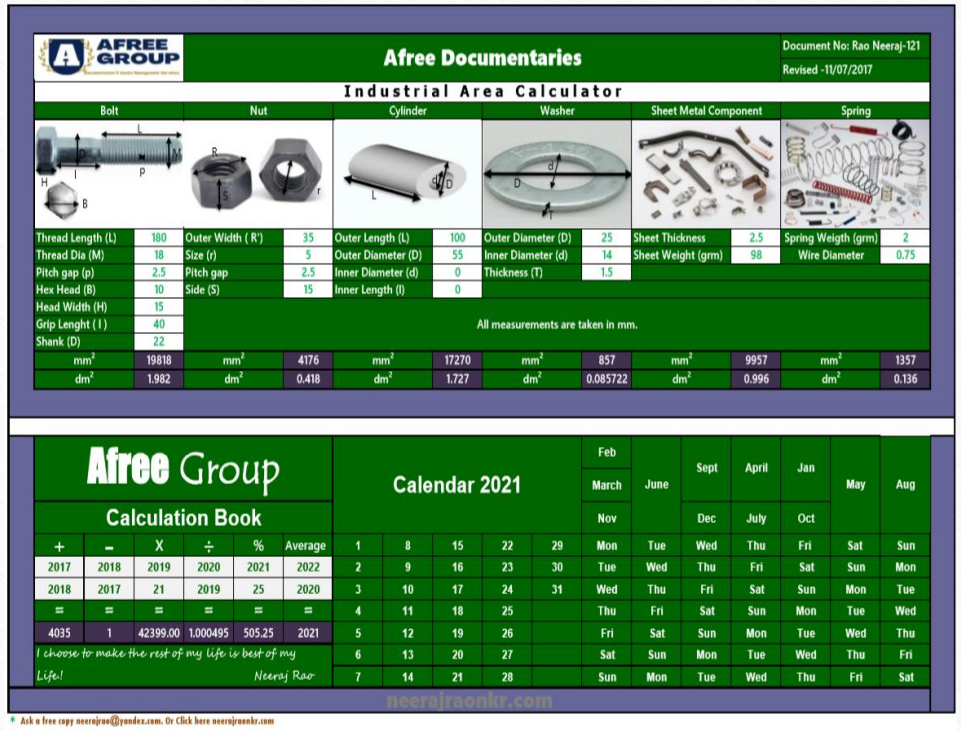
AFREE GROUP — MACHINE EFFICIENCY CHART
Document No:AD/PR/FR/03
Revision No :00

Pre-Treatment Degreasing Line				Drying Line			Mechanically Treatment/Shot Blasting 2 Lines			Dip-Spin Coatings				Component Cooling	
Cy/Min	LSMC	HSMC	$F_{asteners}$	Cy/Min	LSMC	$F_{asteners}$	Cy/Min	LSMC	$F_{asteners}$	Cy/Min	LSMC	HSMC	$F_{asteners}$	Cy/Min	HSMC
6	20	30	50	5	30	45	20	50	200	5	12	20	90	10	40
12	40	60	100	10	60	90	40	100	400	10	24	40	180	20	80
18	60	90	150	15	90	135	60	150	600	15	36	60	270	40	120
24	80	120	200	30	180	270				30	72	120	540	60	160
30	100	150	250	60	360	540				60	144	240	1080		
36	120	180	300												
42	140	210	350												
48	160	240	400												
54	180	270	450												
60	200	300	500												
/Shift	2200	3300	5500	/Shift	4320	6480	/Shift	1650	6600	/Shift	1584	2640	11880	/Shift	1920
1 Hour Output				1 Hour Output			1 Hour Output			1 Hour Output				1 Hour Output	
200,300 & 500 Kgs				360 & 540 Kgs			150 to 600 Kgs			72 to 1080 Kgs				160 Kgs	
12 Hours Out-Put				12 Hours Out-Put			12 Hours Out-Put			12 Hours Out-Put				12 Hours Out-Put	
2200-5500 Kgs/Shift				4320 -6480 Kgs/Shift			1650-6600 Kgs/Shift			864 to 5940 Kgs/Shift				1920 Kgs/Shift	

Code:	Category	Client's Name
LSMC :	Light Weight SMC Component	Maruti ,Honda
HSMC :	Heavy Weight SMC Component	Eicher,Volvo
Fasteners :	Bolts,Nuts,Washers	Bla Bla

Applicable for 2 Shots Blasting Machine on One Shift
Applicable for One Dip-Spin Line & One Shift

Surface Area Calculator



AFREE GROUP — Afree Documentaries
Document No: Rao Neeraj-121
Revised -11/07/2017

Industrial Area Calculator

Bolt		Nut		Cylinder		Washer		Sheet Metal Component		Spring	
Thread Length (L)	180	Outer Width (R')	35	Outer Length (L)	100	Outer Diameter (D)	25	Sheet Thickness	2.5	Spring Weigth (grm)	2
Thread Dia (M)	18	Size (r)	5	Outer Diameter (D)	55	Inner Diameter (d)	14	Sheet Weight (grm)	98	Wire Diameter	0.75
Pitch gap (p)	2.5	Pitch gap	2.5	Inner Diameter (d)	0	Thickness (T)	1.5				
Hex Head (B)	10	Side (S)	15	Inner Length (l)	0						
Head Width (H)	15										
Grip Lenght (l)	40										
Shank (D)	22										
mm^2	19818	mm^2	4176	mm^2	17270	mm^2	857	mm^2	9957	mm^2	1357
dm^2	1.982	dm^2	0.418	dm^2	1.727	dm^2	0.085722	dm^2	0.996	dm^2	0.136

All measurements are taken in mm.

Afree Group
Calculation Book

+	-	X	÷	%	Average
2017	2018	2019	2020	2021	2022
2018	2017	21	2019	25	2020
=	=	=	=	=	=
4035	1	42399.00	1.000495	505.25	2021

I choose to make the rest of my life is best of my Life!
Neeraj Rao

Calendar 2021

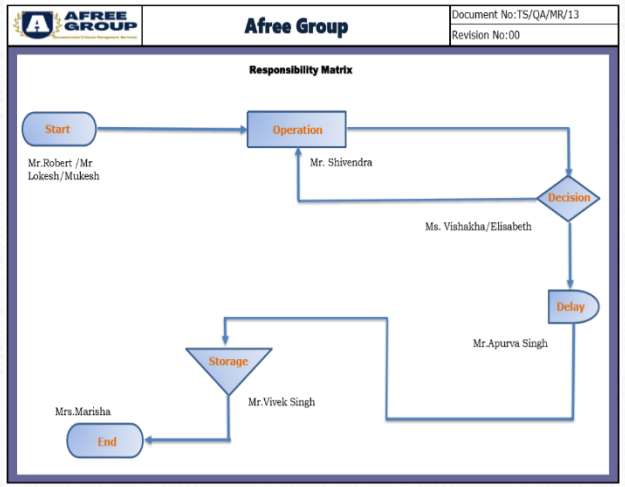
1	8	15	22	29	Mon	Tue	Wed	Thu	Fri	Sat	Sun
2	9	16	23	30	Tue	Wed	Thu	Fri	Sat	Sun	Mon
3	10	17	24	31	Wed	Thu	Fri	Sat	Sun	Mon	Tue
4	11	18	25		Thu	Fri	Sat	Sun	Mon	Tue	Wed
5	12	19	26		Fri	Sat	Sun	Mon	Tue	Wed	Thu
6	13	20	27		Sat	Sun	Mon	Tue	Wed	Thu	Fri
7	14	21	28		Sun	Mon	Tue	Wed	Thu	Fri	Sat

Feb, March, Nov | June | Sept, Dec | April, July | Jan, Oct | May | Aug

neerajraonkr.com

Ask a free copy neerajrao@yandex.com. Or Click here neerajraonkr.com

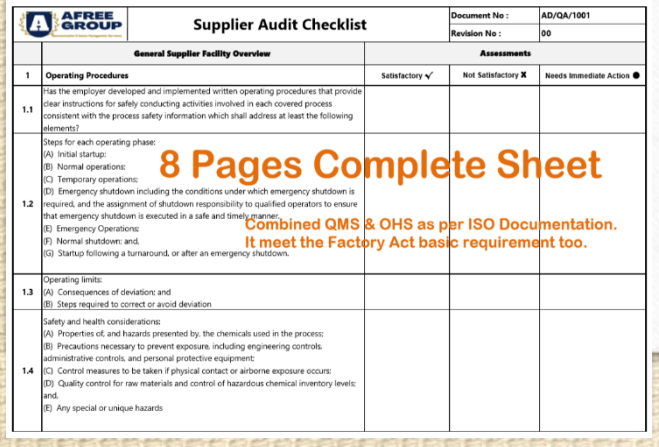
Responsibility Matrix



AFREE GROUP — Afree Group
Document No:TS/QA/MR/13
Revision No:00

Responsibility Matrix

Internal/External Audit Sheet

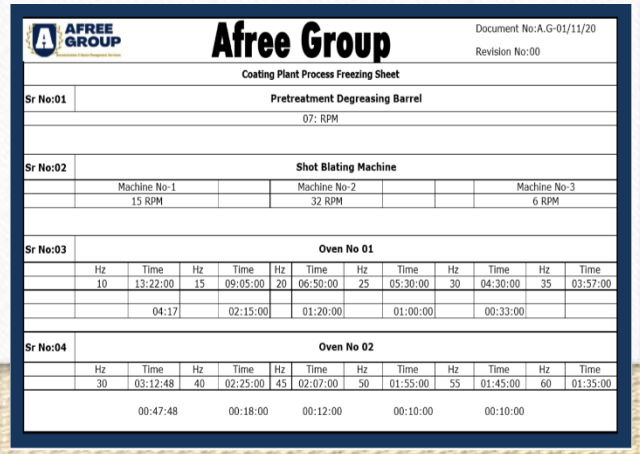


AFREE GROUP — Supplier Audit Checklist
Document No : AD/QA/1001
Revision No : 00

	General Supplier Facility Overview	Assessments		
1	Operating Procedures	Satisfactory ✓	Not Satisfactory ✗	Needs Immediate Action ●
1.1	Has the employer developed and implemented written operating procedures that provide clear instructions for safely conducting activities involved in each covered process consistent with the process safety information which shall address at least the following elements?			
1.2	Steps for each operating phase: (A) Initial startup; (B) Normal operations; (C) Temporary operations; (D) Emergency shutdown including the conditions under which emergency shutdown is required, and the assignment of shutdown responsibility to qualified operators to ensure that emergency shutdown is executed in a safe and timely manner; (E) Emergency Operations; (F) Normal shutdown; and, (G) Startup following a turnaround, or after an emergency shutdown.			
1.3	Operating limits: (A) Consequences of deviation; and (B) Steps required to correct or avoid deviation			
1.4	Safety and health considerations: (A) Properties of, and hazards presented by, the chemicals used in the process; (B) Precautions necessary to prevent exposure, including engineering controls, administrative controls, and personal protective equipment; (C) Control measures to be taken if physical contact or airborne exposure occurs; (D) Quality control for raw materials and control of hazardous chemical inventory levels; and, (E) Any special or unique hazards			

8 Pages Complete Sheet
Combined QMS & OHS as per ISO Documentation.
It meet the Factory Act basic requirement too.

Process Freezing



AFREE GROUP — Afree Group
Document No:A.G-01/11/20
Revision No:00

Coating Plant Process Freezing Sheet

Sr No:01 — Pretreatment Degreasing Barrel
07: RPM

Sr No:02 — Shot Blating Machine

Machine No-1	Machine No-2	Machine No-3
15 RPM	32 RPM	6 RPM

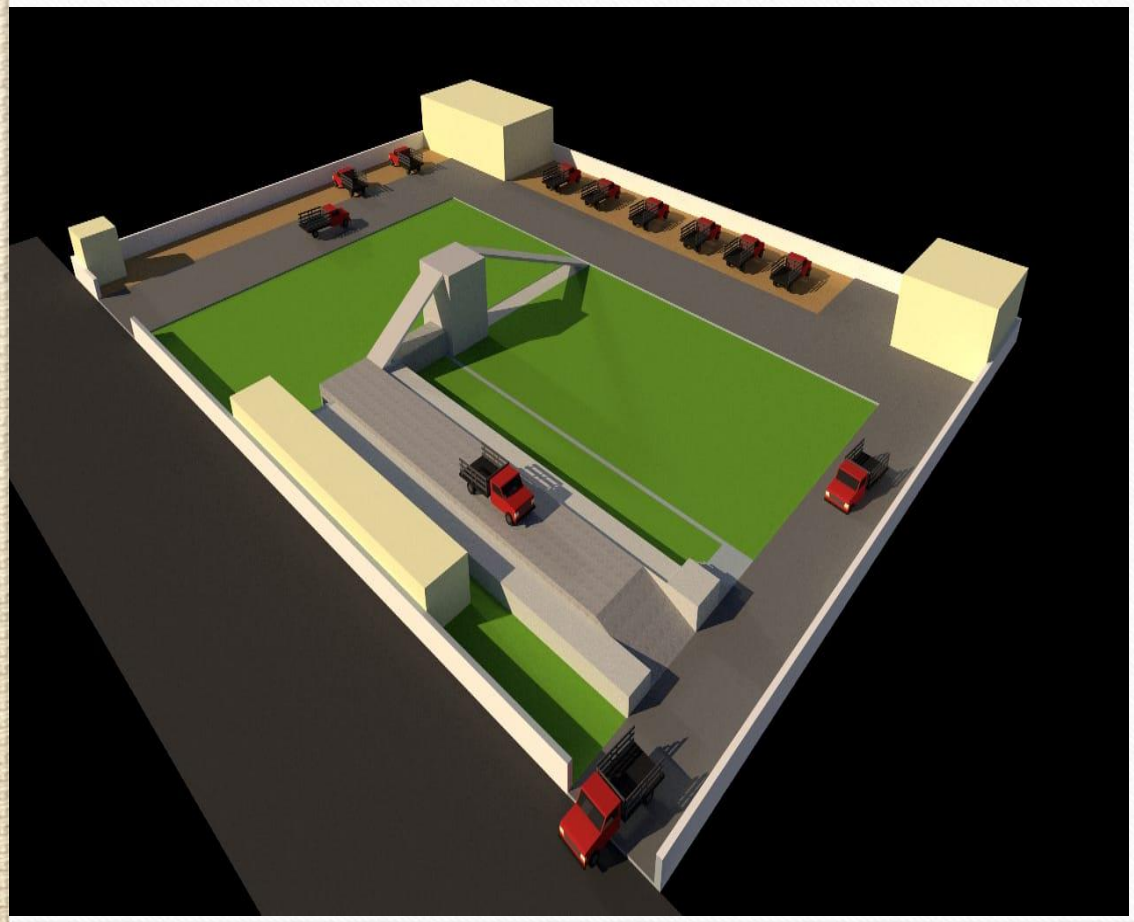
Sr No:03 — Oven No 01

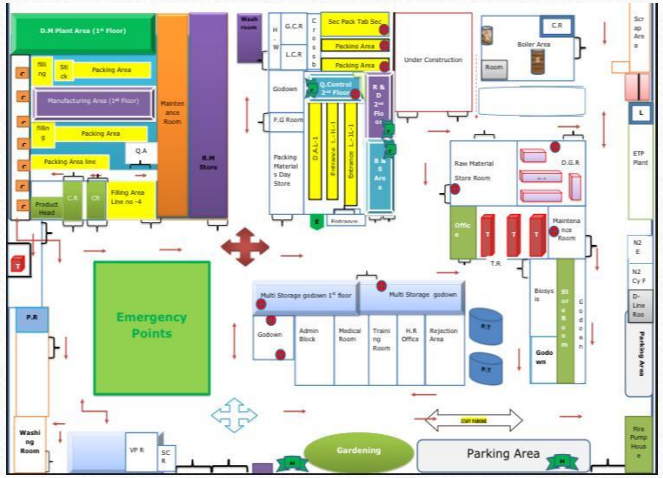
Hz	Time	Hz	Time	Hz	Time	Hz	Time	Hz	Time	Hz	Time
10	13:22:00	15	09:05:00	20	06:50:00	25	05:30:00	30	04:30:00	35	03:57:00
	04:17		02:15:00		01:20:00		01:00:00		00:33:00		

Sr No:04 — Oven No 02

Hz	Time	Hz	Time	Hz	Time	Hz	Time	Hz	Time	Hz	Time
30	03:12:48	40	02:25:00	45	02:07:00	50	01:55:00	55	01:45:00	60	01:35:00
	00:47:48		00:18:00		00:12:00		00:10:00		00:10:00		

Free Hand Sketch & Professional Layout





Waste

We human depends on many things from an Environment to satisfied a various needs. and in the process of a development we generate or produce lot of things. which are actually of no use to us. and simply discard them. We often buy packet food, bottle drinks, can foods etc. But

What exactly we do after having it ? We through away the wrapper or the bottle. Right ?

And what about the left over the food or vegetables from the kitchen? Yes

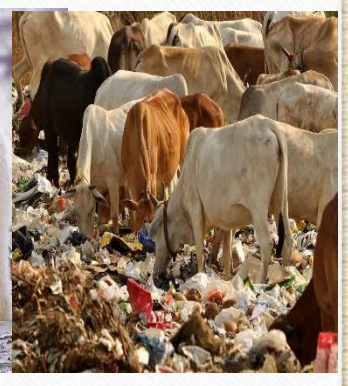
Even that goes into a dustbin.

We discard lot of things-like the old news paper, Plastics, Card board wrapping, broken object and the less just continues. We discard or through away such things because they can no longer be of any use to us. Or they might be unwanted ,defective, Old or worthless. And such object which are no longer of any use to us are called Waste. This waste can be a small as a used Pen to a large as an old vehicle. Also waste to one person may not necessarily be waste to another. We normally get rid of the waste generated at home by keeping a bin outside the house. Right ?? But Is that the end of it ?

NO----- These waste under go series of process.

Health Hazard Caused by Waste

Many aquatic animals die every year because of plastic bag litter.



Many terrestrial animals eat plastic from dumping site.

Air

Water

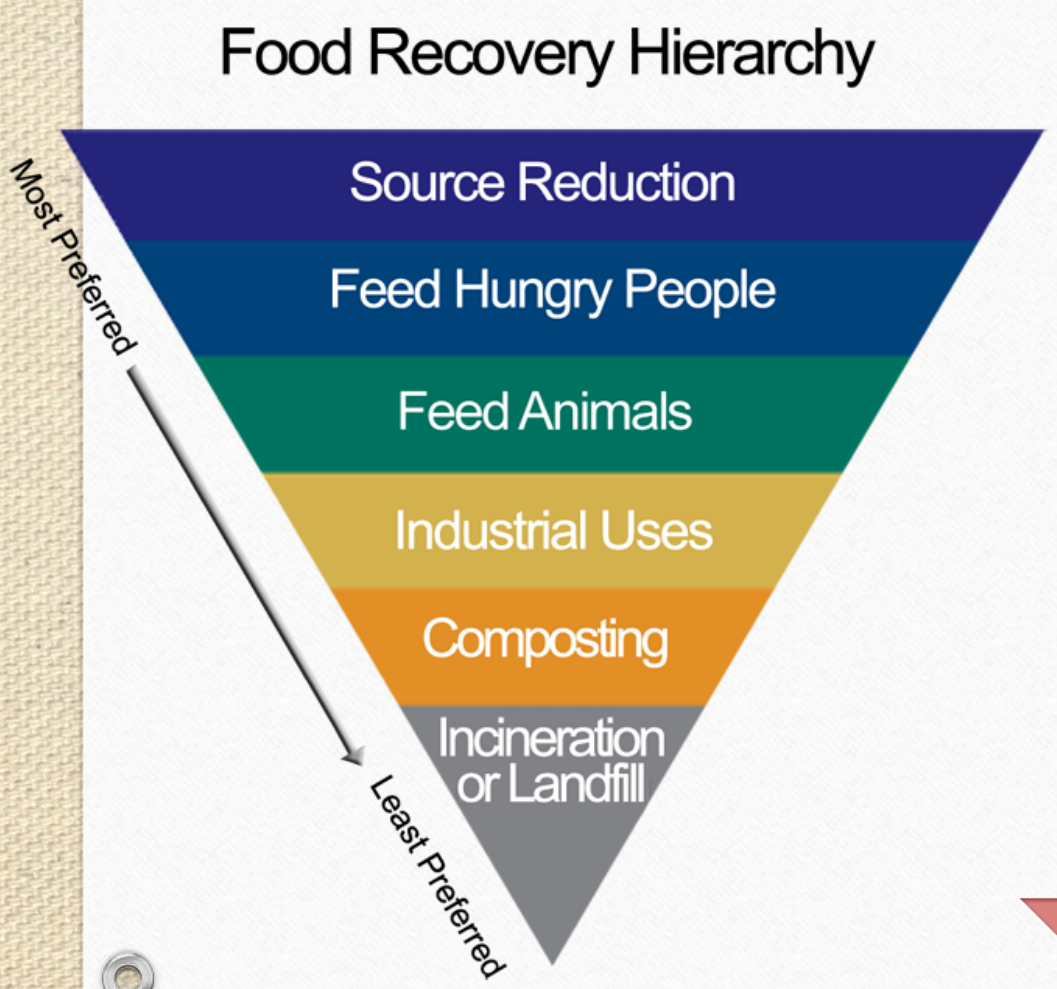
Soil

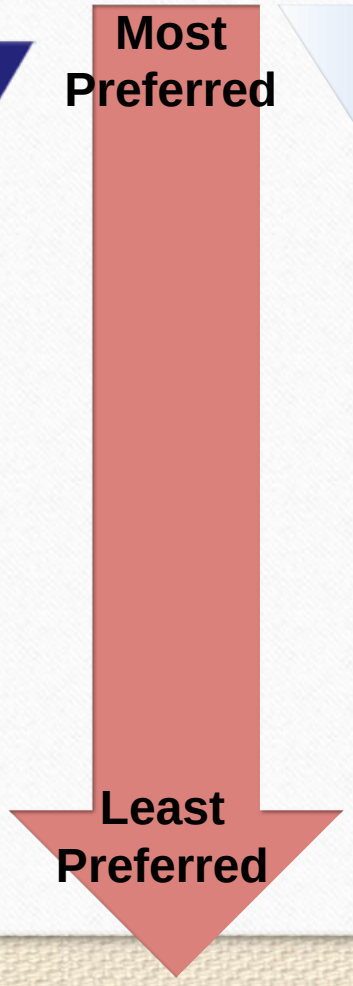
Pollution

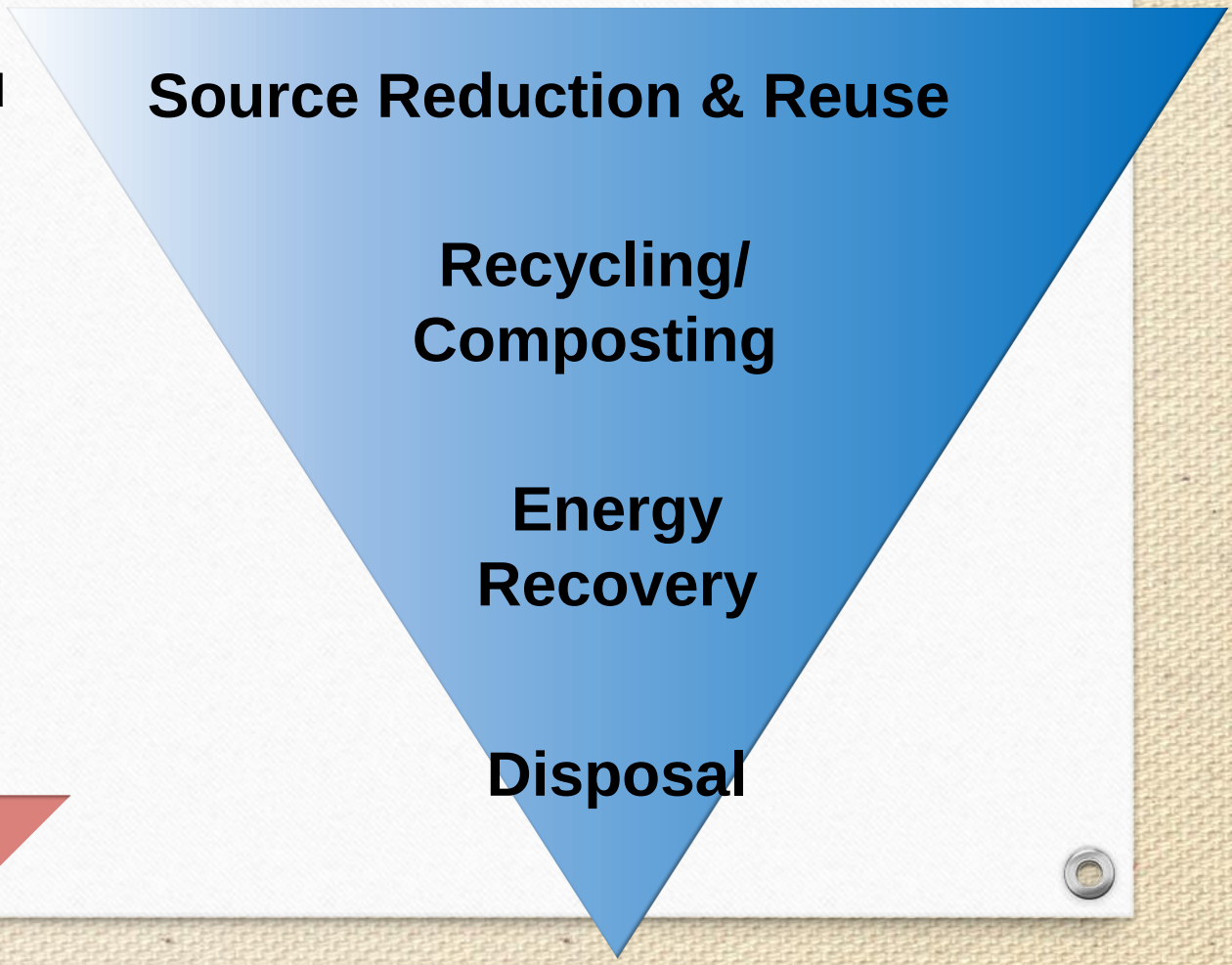
Minamata disease:

It was caused by the release of methylmercury in the industrial water from the chemical factory.
It is a toxic disorder of central nervious system.

Waste Management Hierarchy







Solid Waste Management System

Depending on the waste amount, collection is done by a single unit or a fleet of dump or compactor trucks at frequencies of once or several times per week. In general, mixed waste is collected by government-owned trucks in small towns and cities, and by contractors in large urban areas.

Composting plants, MRFs, and treatment facilities are found within the processing and treatment component.

Waste storage is temporary and makes use of various containers of different capacities, such as plastic bags; cans; sacks; native baskets; and bins made from steel, concrete, and high-density polyethylene (HDPE).

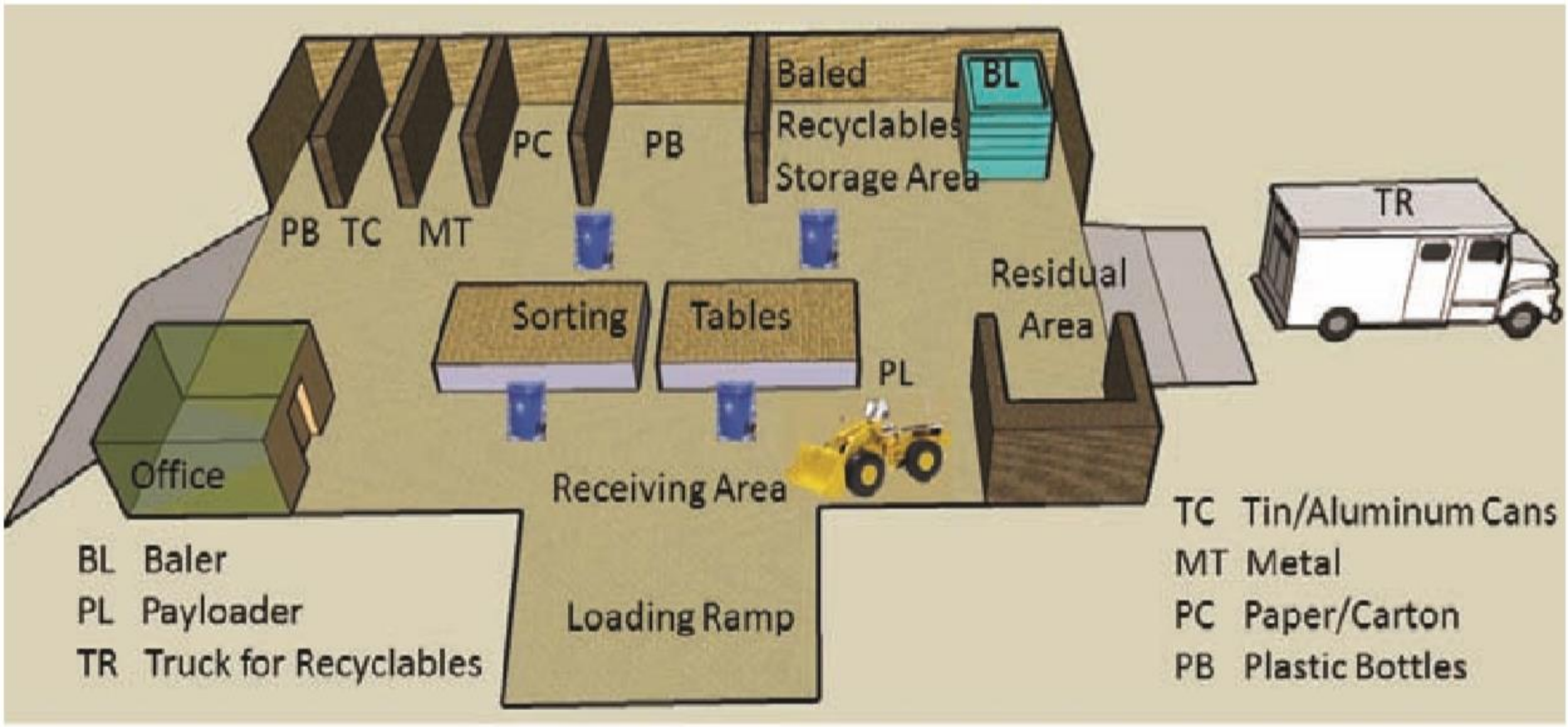
The waste generators include residences, institutions, markets, and business and commercial establishments. Additional waste is also contributed by street sweepings.

Disposal in developing countries is done mainly in open dumps and in some sanitary landfills.

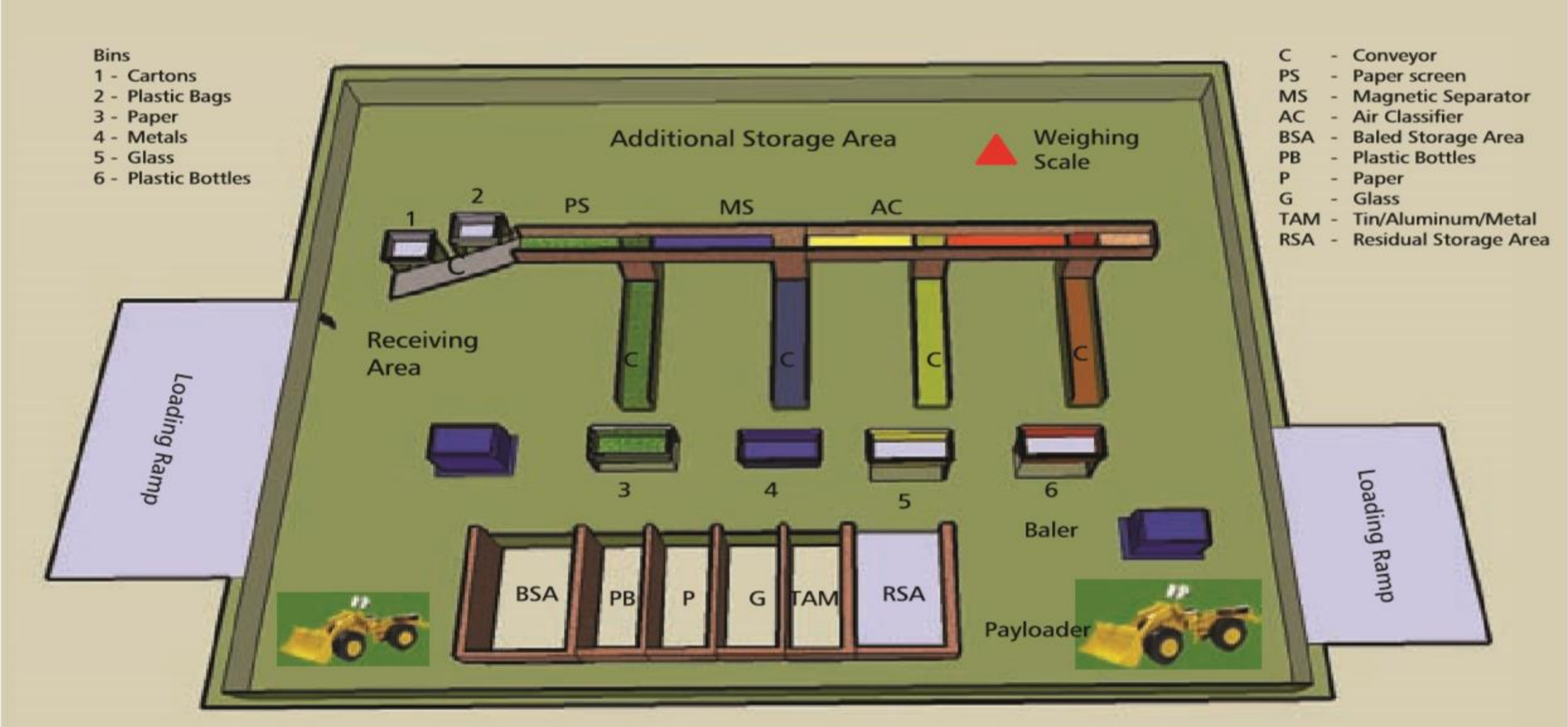
Afree Material Recovery Facility :

Afree facility is running an MRF Centre located at Gurugram under Solid Waste Management Act. Our factory is that where recyclable municipal solid waste is processed and separated using manual and/or mechanical methods. The recovered materials may include paper, glass, plastics, and metals, which are baled, temporarily stored, and eventually sold to recycling or manufacturing firms. The remaining residual wastes are then disposed of into a sanitary landfill. MRFs can process either source-separated recyclables or mixed wastes, in which case the biodegradable components can be processed into compost in another facility.
Rapid development, rising personal consumption, and inefficient use of resources are producing unprecedented levels of waste in Country, where cities will generate an estimated 0.25 million tons of garbage per day by 2025.
Waste diversion is crucial – It is a process of diverting waste from a sanitary landfill or disposal site through segregation and recovery of recyclable materials, composting, and treatment. The diverted amount is measured by weight, usually in tons or kilograms.

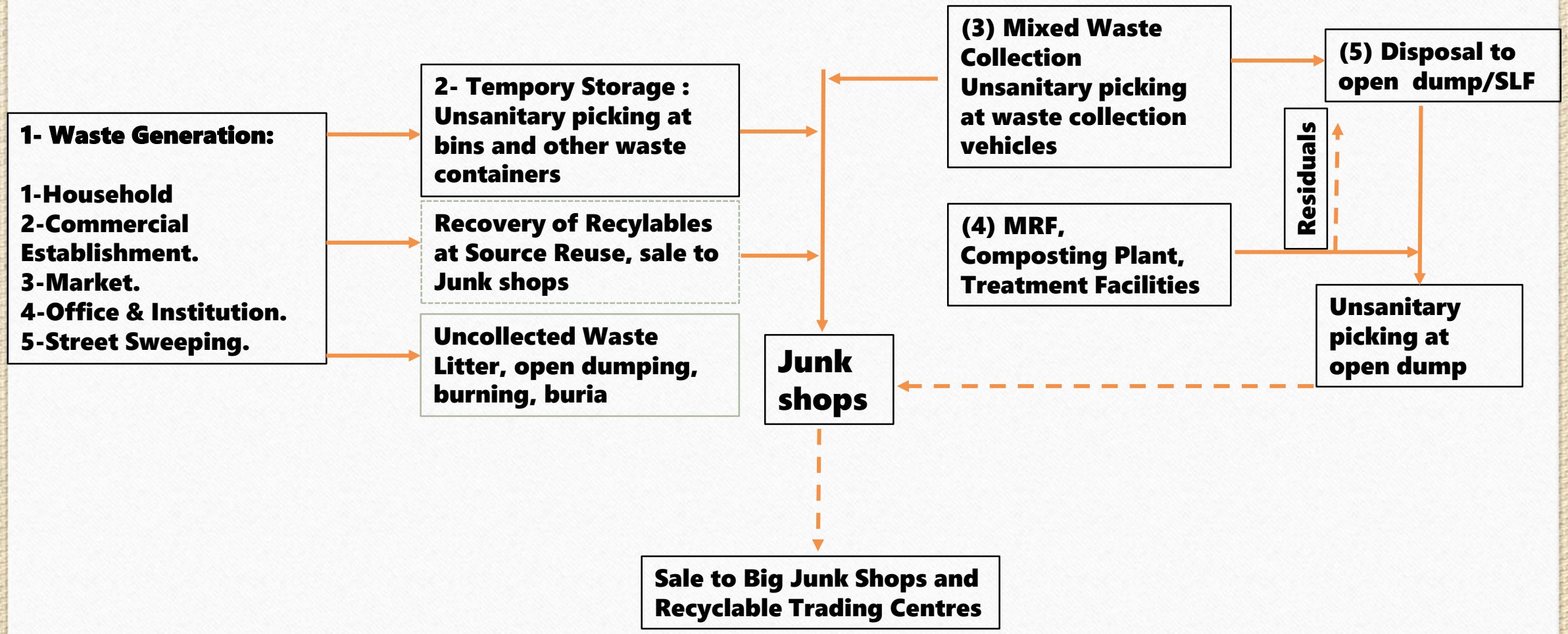
Afree Manual Material Recovery Facility



Afree's Automated Material Recovery Facility



Components of a Solid Waste Management System



Waste Category

Wet Waste (Biodegradable)	Dry Waste (Non-Biodegradable /Recyclable)	Hazardous Waste Domestic/Industrial
▪ Kitchen Waste including: tea leaves, vegetables, egg cells, fruits, Peels. Meat & Bones. Leaf litter & including flowers. Soiled paper ▪ House dust after cleaning ▪ Coconut shells ▪ Ashes	▪ Newspaper ▪ Paper, books and magazines ▪ Glass ▪ Metal objects and wire ▪ Plastics ▪ Cloth rags ▪ Leather ▪ Rexene ▪ Wood/furniture ▪ Polystyrene/packaging material	▪ Aerosol cans ▪ Bleaches and household kitchen and drain cleaning ▪ agents and its container ▪ Car batteries, oil filters and car care products and consumables ▪ Chemicals and solvents and ▪ their container ▪ Cosmetic items chemical based insecticides and their Containers. ▪ Paints, oils, lubricants, glues, thinners, and their container ▪ Pesticides and herbicides and their container. ▪ Photographic audio/video tapes and their containers, ▪ Chemicals. ▪ Styrofoam and soft foam packaging of furniture, packaging and equipment ▪ Thermometers and mercury Containing products ▪ Discarded medicine and disposable syringes

AFREE GROUP
Documentation & Waste Management Services

Clients

DOE
CERTIFIED ISO 9001:2015 CERTIFIED

DEVESH TRADING COMPANY

technoshine
Zinc Flake Coating

äavritii

R.K Enterprises
ISO 9001:2015
Specialist in Zn Platings

Thanks For Watching

Please contact for any enquiry

Email: www.neerajraonkr.com

Address : Pachim Vihar New Delhi 110063 [India]
Contact: +91 9871350283