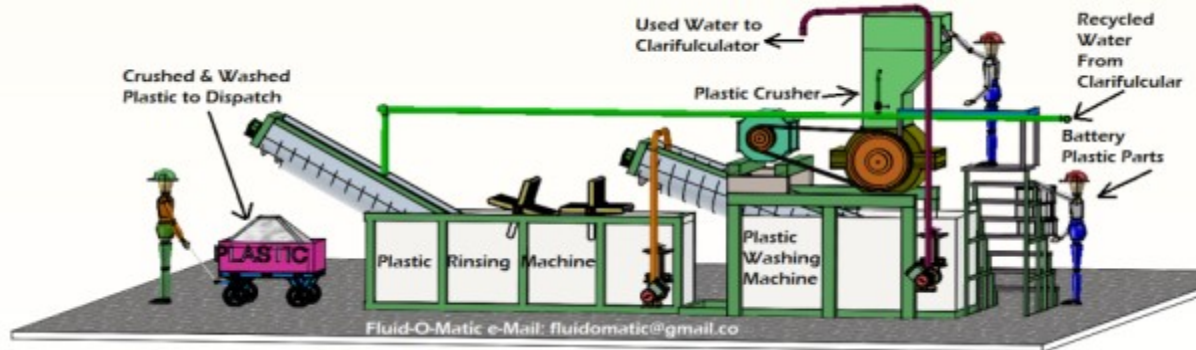


Plastic Crushing and Washing Plant:



Our Plastic Washing Plant is designed using the cutting edge technology. Capacity of this plant is 150 kg/hour.

Plastic Crushing and Washing Plant consists of followings main machines:

1. Water cooled Plastic Container Crushing machine,
2. Friction Washing Machine,
3. Friction Rinsing Machine

- This plant consists of following:
- Plastic Crusher: It crushes Plastic Containers along with Lid. Capacity of machine is Plastics of 40 Ton scrap Battery in 24 hours. Electricity requirement 40 kw. Manpower required one man. Machine is water cooled. So Lead dust does not spread around. Crushed Plastics is automatically fed to washing Machine.
- Plastic Washing Machine: It washes plastic and separate Lead Dust from crushed plastic. Water is reused and lead dust/ Bottom sludge can be collected from this operation. Later it can be sent be to Lead furnace for Recycling.
- Plastic Rinsing Machine: Plastic Washing Machine feeds automatically to this machine with crushed and washed plastic, it rinses in water, and remaining lead dust is separated.
- Water Pumps: Two submersible pumps are used in system along with cyclone

The whole line is fully automatic and it has characteristics of high efficiency, low noise and easy operation. it adopts hot alkaline water washing to get good quality. Any Acid or Lead dust is removed by friction Washing. Crushed Plastic is transferred automatically by inclined Material conveyor. Inclined Conveyor shifts plastic pallets to rinsing machine.

Rinsing Machine washes again in clean alkaline Water. Ph Level is continuously monitored by Electrical control Panel. Soda Ash is charged to Washing Tank so Alkalinity is maintained. This Alkaline Water neutralises Acidic film formed on the surface of Plastic and subsequently clean it.

Man power required two men.

Lead Dust Emissions to Air is nullified due to its unique design criteria. All emissions are suppressed into water bath so no Lead dust is emitted to air. So no Particulate Matter in the air is created.

Lead Dust is either transfers with water to E.T.P. Plant or settles down after de-sulphating.

Battery container of 20 Ton Battery/ Day.

Electrical Power :

S.No	Machine	Kw
1	Plastic Container Crusher	20 Kw
2	Double Layered Inclined Conveyor to Rinsing Machine	1.5 Kw
3	Water Pump Kirloskar Make	2.25 Kw
4	Double Layered Inclined Output Conveyor	1.5 Kw
5	Water Pump Kirloskar Make	1.5 Kw
	Total Load	26.75 Kw

Advantages of Machine:

1. Better utilisation of Floor Space otherwise Battery Container will occupy more space than machine.
 2. Reduced Transportation on empty Container, Now crushed and washed plastic is sold so better realisation of product value.
 3. Lead Dust Recovery is enhanced.
 4. High Automation level reduces labour cost.
 5. High processing capacity
 6. Friendly control system
 7. Easy for operation, monitor and emergency stop.
 8. Plastic Pallets can be made into Granules by adding another Machineries.
- Man Power Required: 2.

Air Emission:

Dust Emission – nil, -----Due to water spray while Crushing operation.

Lead particles- nil, -----Water spray subsided Lead particles, Settled into bottom tank of Machine, later collected and either sold with Lead bearing Material or charged to Rotary Furnace.

Soot- nil, -----No Combustion of anything.

dB Level - 70 dB w/o sound enclosure

(Crusher Sound Enclosure Optional) Outside sound Enclosure 40 dB

Water Treatment Plant:

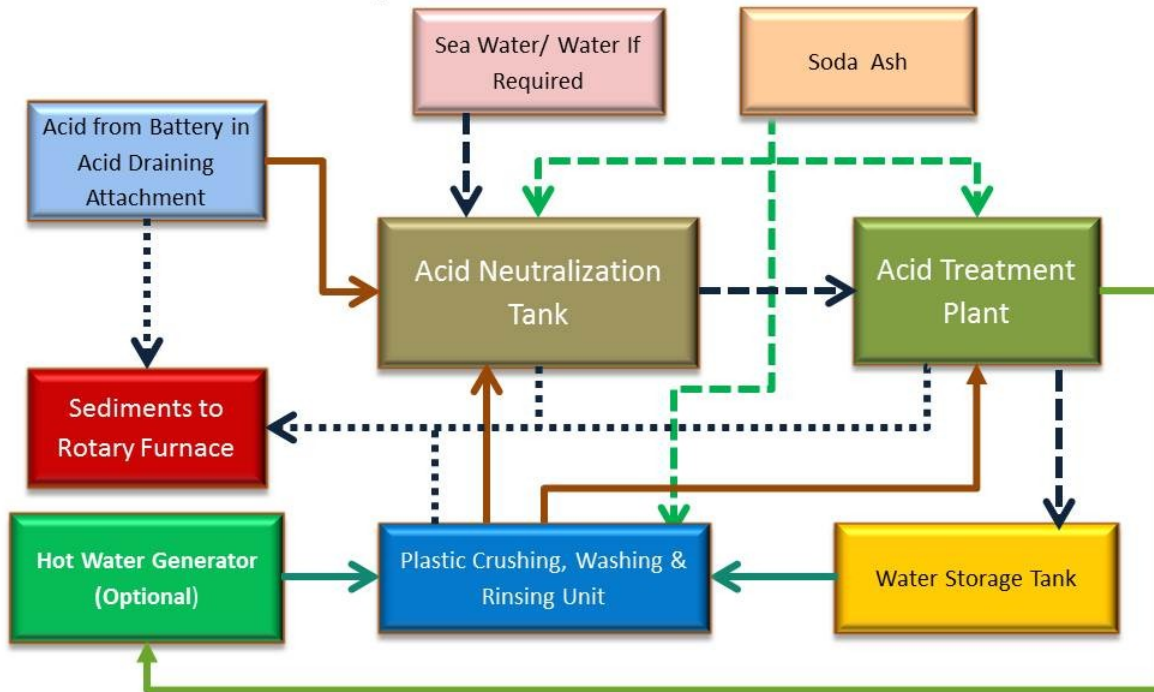
Air Emission:

Dust Emission – nil, -----Due to water Bath

Lead particles- nil, -----Water spray subsided Lead particles, Settled into bottom tank of Machine, later collected and either sold with Lead bearing Material or charged to Rotary Furnace.

Soot- nil, -----No Combustion of anything.

Battery Acid Treatment Unit



Process Flow

Acid Neutralization Attachment:

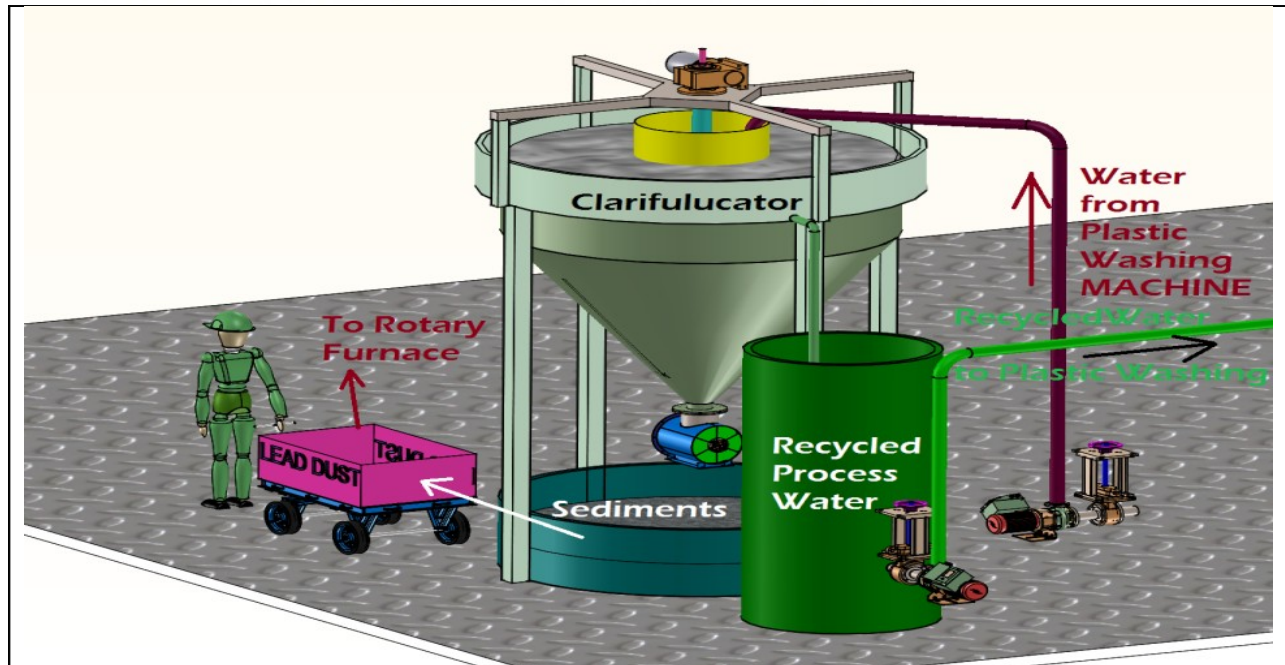
Battery Plate & Acid if there then it is separated and diluted by mixing with water from Plastic Washing Unit. Sediments are separated and sent to Rotary Furnace for further treatment. Whereas diluted acid / dirty water for recycling to Clarificalcator. This is covered with hood and air is blown to Venturi scrubber.

Air Emission: Air is sucked and sent to venture scrubber.

Dust Emission- nil

Lead Particles – nil

Soot ----- No Combustion



Water Treatment Unit:

In this unit, Used Water from Plastic Washing Machine, which have concentration of soda ash 15% to 20% (pH level 8⁻) is maintained, Battery Acid from Acid Draining Attachment, which is already diluted to 15% concentration by discharge state of Battery discharges majority of Sulphates are consumed by Lead which transforms into Lead Sulphates, now battery water having Specific Gravity 1100 and pH level at 4⁺pH. These both are mixed and pH level is controlled by automatic Digital pH controller Panel feeding Soda Ash/ Lime automatically in to the solution and sediments are formed. Sediments are agitated and pushed by centrifugal agitator in Clariflucator, to bottom, from bottom these are removed by rotary valve to Settling Tank. Later water floating on top in sediments settling Tank is removed and sent back to Clariflucator. Sediments are removed from settling tank and sent to Rotary Furnace for further Treatment. Hence Clear water is reused by the system.

Air Emission:

Dust Emission – nil, -----Due to water spray while slicing.

Lead particles- nil, -----Water spray subsided Lead particles, Settled into bottom tank of Machine, later collected and either sold with Lead bearing Material or charged to Rotary Furnace.

Soot- nil, -----No Combustion of anything.



QUOTATION	
PLASTIC RECYCLING PLANT	
DATE	13 Sept.2015

Particulars	QT Y.	Rate	AMOUNT (USD)	
Plastic Container Crushing & Washing M/C				
1 Automatic Container Crushing Machine	1	00 7,5	00	7,5
2 Semiautomatic Plastic Rinsing Machine	1	00 11,5	00	11,5
3 Hot Water Plastic Washing Machine	1	00 12,5	00	12,5
TOTAL			00	31,5

TERM AND CONDITIONS

1. The above quoted prices are **Ex. Works, Noida Basis** i.e. all Loading transportation, unloading Insurance and other charges related to sending the finished material from our works to client's site will be paid by client.
2. **DELIVERY:** 45 days to 60 Days after receiving Advance with confirmed Order.
3. **PAYMENT TEREMS:** 60 % advance and Balance at the time of delivery or before dispatch / handing over to your Representative or to your Handling Party. If Party is present then it will be our pleasure.
4. **Bank Detail for E- Transfer: Indian Rupees.**

Account name= FLUID-O-MATIC
BANK NAME = VIJAYA BANK
ACCOUNT NUMBER = 713200301000030
FOREX DETAILS: VIJBINBRFC
RTGS code = VIJB0007132
BRANCH NAME = SME BRANCH, SECTOR-51, NOIDA, UP, INDIA

5. **WARANTY:** All manufactured equipment supplied to you will be warranted against anyManufacturing defects, for 15 months from the date of supply or 12 days alteration in theSystem after installation, without authorization would render warranty void. Adequate care has been exercised in selection and use of only best of equipment which are to be bought and assembled in our unit. However, Warranty of all bought out items areas extended by the manufacturers of respective items. All travelling and transport expenditure for staff or equipment, even under warranty terms are to buyers account. Maximum Liability under warranty is limited to the cost of part of unit/ equipment which is non-functioning / mal-functioning and will not exceed the same in any case.
6. **VALIDITY:** The above offer is valid for the period of 30 days from the date of offer which it would be subject to our confirmation.
7. **INSPECTION:** The equipment can be inspected prior to dispatch at our works by buyer at their own cost with prior information.
8. **FORCE MAJEURE:** The above delivery is subject to Force Majeure conditions.
9. **CIVIL WORK:** All R.C.C. constructions should strictly be as per outline details and specifications provided by us.
10. The client will have to provide proper Electricity connections and fresh water line at site for timely execution of job.
11. The Client will have to depute exclusively one person to the unit for carrying **Over the Commissioning of the same in our guidance, with our engineer.**

12. Specifications of Equipment are subject to minor modification at the time of detailed designing after finalization of order.
13. Client will have to provide tools- tackles for erection purpose such as gas cutters, welding sets, cranes etc. We will be providing trained personnel only for erection for/paid by the client while the work is on.

14. **JURISDICTION:** All Disputes are subject to Noida, Distt. GautamBudh Nagar Jurisdiction.

15. SUPERVISION OF ERECTION AND COMMISSIONING :

Supervision of erection and commission can be provided on the following Terms:-

- a) To & Fro, and Lodging & Boarding etc, to be borne by the client.
- b) Supervision Charges @ \$3000.00 Per day of stay is included in supervision costs starting from the day our engineer leave India to be paid by the client.
- c) An advance payment is taken from customer
- d) Client to provide a reasonably skilled work team equipment, electricity and civil work at site to get the project completed at the earliest.
- e) Client should procure beforehand any item in client's Scope specified in this offer or hereafter.

FOR FLUID-O-MATIC

MR. DD SHARMA

PROPRIETOR SIGNATORY