

# SSIP CELL, G. P. Kheda – POC Format

Date: \_\_\_\_\_

## Project title: Reverse Vending Machine

### Team Leader Detail:

Name	Enroll.no.	M. no.	Email	Branch and Sem.
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### Mentor Detail:

Mentor Name	Mobile no.	Email
Dr. Pinkesh R. Shah	9825472703	<a href="mailto:pinkeshrshah@gmail.com">pinkeshrshah@gmail.com</a>

1. The problem you want to solve.

Ans:- Waste is being generated at an increasing rate around the world, hence came the need for waste Management. Waste management is the process of managing waste from the time it is produced to its final Disposal. Plastics such as PET bottles take thousands of years to decompose. . The methods of recycling in India are scarce, while the foreign counterparts have brought about innovative Ways to recycle materials, especially plastics. One such method of plastic waste recycling is the use of Reverse Vending Machine.

2. Your Idea (Solutions)

Ans:-

- One such method of plastic waste recycling is the use of Reverse Vending Machine.
- For this we had make an application that can help people to recycle plastic bottles easily and get back them reverts easily.
- Use of reverse vending machine is the best method for plastic bottles

3. What is innovative in your Idea?

Ans:-

- Reverse Vending Machine is our new innovation that takes plastic bottles and gives rewards to them.
- Second one is that we had put storage bin instead of crushing bottle.
- They have to insert the plastic bottles and take back the reverts.
- For this we had make an application that can help people to recycle plastic bottles easily and get back them reverts easily.

- We had made a mobile application which is linked with our machine.

4. Who will be your users/ customers ?

Ans:-

Everywhere(Hospital, Airport, Garden, Stadium, Mall etc)

5. Give me your idea/solution suggestion. (How will it work, you can chat.) (You can add a separate page if needed.)

Ans:-

- A reverse vending machine (RVM) is a machine that allows a person to Insert a used plastic bottle in Exchange they give rewards and give the points.
- After inserting the recyclable item, it is then compacted, sorted, and Analyzed according to the number of ounces, materials, and brand using The universal product code on the bottle or can.
- Once the item has been scanned and approved, then it is the proper storage space for the classified material.
- Upon processing the item, the machine rewards people with incentives, Such as cash or coupons.



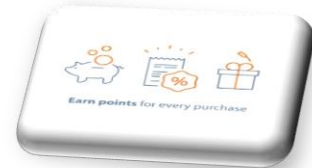
Scan the QR and  
download application

SIGN UP / LOG



Create Profile

Place the bottle  
in the machine



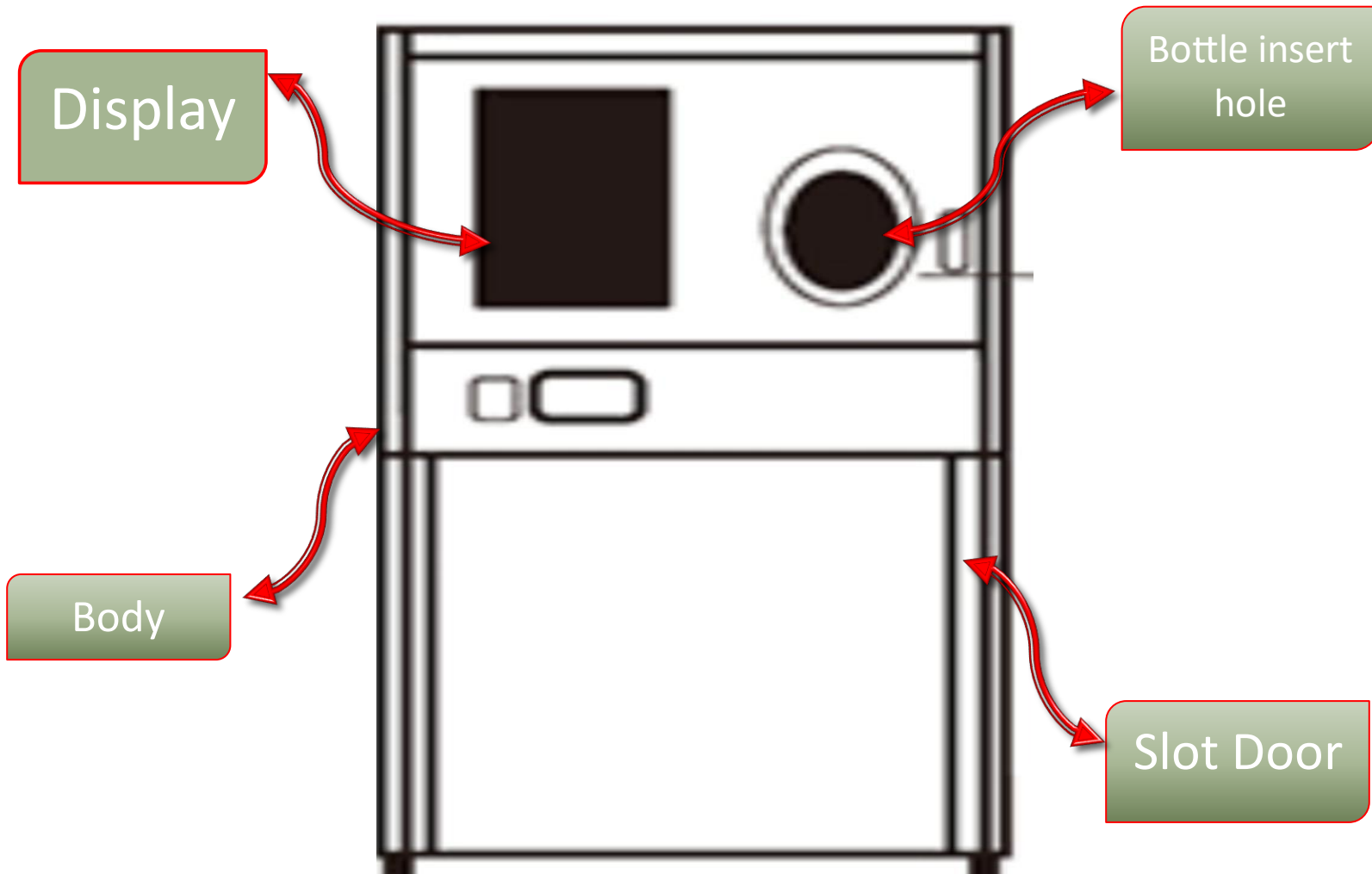
Collecting and getting  
points



Getting Rewards

6. A sketch illustrating it (If necessary, you can attach a separate page.)

Ans:-



7. If someone has already created a solution similar to the one you want to create ( it's from the Related Project Internet.)

Ans:-

- REATOMS MANUFACTURES
- TOMRA REVERSE VINDING MACHINE
- WENDOR REVIRSE VINDING MACHINE

- PLASTIC BOTTLE RECYCLE MACHINE

8. What components do you need to build this project (price of each components, writing the specification) Approximately how much will the above components cost ?

Ans:-

Sr No:-	Components List :-	Approximately Price (₹)
1	Platform Software Rack	3,000
2	Display	7,700
3	Slot door	4,500
4	Storage bin	3,500
5	Application	22,000
6	Control Unit	5,000
7	Other:- <ul style="list-style-type: none"> <li>● Paint 200</li> <li>● Wheel 500</li> <li>● Body 5000</li> <li>● Conveyor 2760</li> <li>● Battery 800</li> </ul>	9,260
TOTAL=		54,960

Team leader and sign:

Mentor Sign: