

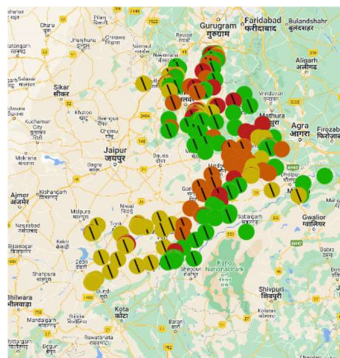
2022 – Journey continues for EWP [EarthRon Waste Processing Platform]

As all of us bid goodbye to 2022, we at EarthRon look back with satisfaction on our achievements and look forward to an interesting 2023.

At the start of 2022, our EWP software had a single product designed for Bio Medical Waste Management Plants. At the end of this year, we have successfully deployed our second solution for Municipal Solid Waste Management for Municipalities, NGOs, and Corporate CSR initiatives.

Bio Medical Waste Management platform.

- Our customers requested for additional features to assist in running their business. We added many features to EWP, some of the interesting ones are described below
 - **Driver logins** were made zero-data entry and Vehicles once allocated to a Route were not available to future drivers.
 - This ensured that drivers did not struggle with typing in their username/password (Keyboard error/ new driver etc.)
 - Same Vehicle showing up against multiple trips was avoided.
 - We had a crisp view of the mapping of driver name-phone number-Vehicle used for each Route.



- **Colour coding** of last serviced date of each HCF on Google Map
- A visual dashboard of your state of operations
- Zoom out to view a regional status
- Zoom in to view the individual status
- Each Colour Ball has loads of data of individual HCF, available on a click.

Recycling Module for scarp

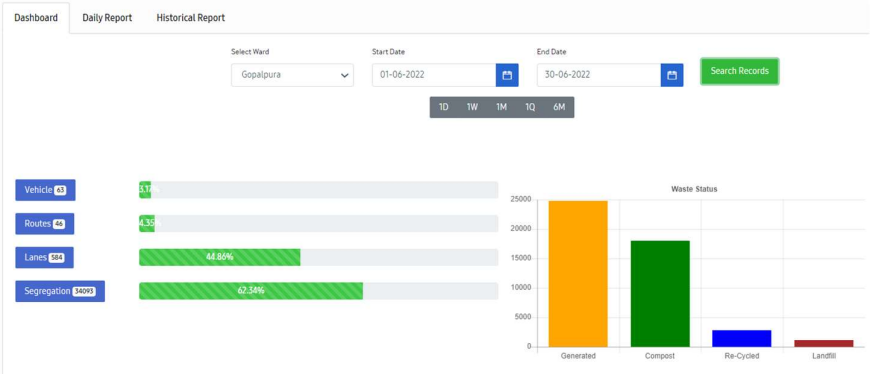
Month	Date	Vendor	Vehicle No	Item	Gross Weight	Bag Qty	Tare Wt Kg	Net Weight	Report
September-2022	01-09-2022	Vendor 1	5635	LD Bottle 1	206.880	20	5.400	201.480	View
				Injection Mix	438.890	12	3.260	435.250	
				Polybag	239.000	12	0.000	239.000	
				Mix Box	135.720	13	3.510	132.210	
September-2022	01-09-2022	Vendor 1	1465	Barq	553.040	16	4.320	528.720	View
				Denda	365.840	22	1.540	364.300	
				Pipe	1286.440	40	10.800	1275.640	
				Hard	138.680	6	1.620	136.820	
				Mix Box	89.720	6	1.620	88.100	
				Binder	20.560	3	0.810	19.750	
September-2022	01-09-2022	Vendor 1	2286	LD Bottle 1	320.700	26	7.020	313.680	View
				Polybag	363.660	18	0.000	363.660	
				Injection Mix	258.960	7	1.890	257.070	
September-2022	01-09-2022	Vendor 1	1523	LD Bottle 1	353.280	28	7.560	325.720	View

- Track all your scrap by Type and Quantity
 - Raise Challans for each Vehicle Load
 - Accounts, Plant and Recycler can access the data online
 - Zero dispute with authorised recycler on quantity of Scrap picked up from the Plant.
- Three new BMW plants testing our software
- The benefits of the EWP software as per our customers' experience of integrating it in running their Business Operations:
 1. **REVENUE INCREASE:** Reduced disputes in collection as the Invoice is supported by Challans with actual data
 2. **SERVICE IMPROVED:** Real time monitoring on large screens in office, with easy-to-understand colour-coding.
 3. **REDUCED DISRUPTION:** Driver churn is not an issue as new drivers can be trained in less than 1 hour
 4. **INCREASED COMPLIANCE:** HCF/HCE are using Bluetooth scales to weigh their own waste bags.

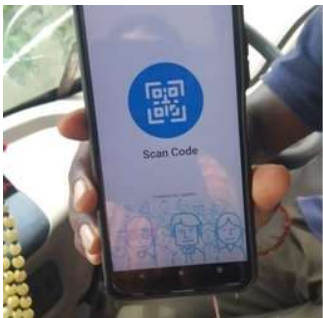
Municipal Solid Waste Management.

This was the year we went live with our second product. It is built around our EWP core engine. We received a mandate to develop and deploy the solution in CMC Udupi and one ward for Gurgaon for a POC. Some of the key takeaways from the deployment till date:

- **Data transparency from Ward till end destination**



- **Bring your Own Device** model was successfully used with the drivers



- Real time tracking of the **productivity** in each Route

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Sr No.	Driver Name	Route Name	Waste Type	Total HH	Date	Start Time	End Time	# of Trips	Cov/Tot	Action
1	Suresh	Route No. 1	DRY	175	28-6-2022	06:16	23:45	6	3/20	
2	Sadananda	Route No. 2	WET		28-6-2022	06:20	13:25	2	0/1	
3	Sunil	Route No. 3	WET		28-6-2022	06:23	06:27	3	0/1	
4	Kumar Sannanje	Route No. 4	DRY		28-6-2022	06:26	08:54	5	0/1	
5	Manjunath	Route No. 5	DRY		28-6-2022	06:31	06:49	3	0/1	
6	Sabu	Route No. 6	DRY		28-6-2022	06:36	08:06	5	0/1	
7	John Nittur	Route No. 7	DRY		28-6-2022	06:38	12:46	3	0/1	
8	Prakash	Route No. 8	WET	892	28-6-2022	06:40	13:00	6	11/20	
9	Sharath	Route No. 9			28-6-2022	06:43	06:57		0/1	
10	Ravi	Route No. 10			28-6-2022	06:45	07:18		0/1	

Showing 1 to 10 of 37 entries

Previous 1 2 3 4 Next

- Each Route Supervisor had access to monitor and update information of their respective trips, which was reflected in the system information in real time.

It was amazing to see the richness of the data we were able to share with the Municipality.

- The benefits of the EWP software to the Municipality
 1. **DATA TRANSPARENCY** on movement of waste by type and quantity
 - From each ward to their respective destinations
 2. **INFORMATION for the SUPERVISOR's**
 - Each supervisor now had access to all the routes managed by them in real time. Any delays/slippages/reduced quantity of waste etc. is a click
 3. **MEASURING KPIs**
 - All awareness campaigns are planned based on gaps identified in the portal and the effectiveness of the same is measured within days. We were able to enable data granularity to each LANE.

The way ahead in 2023

- Bio Medical Waste Management
 - The Central Pollution Control Board will be deploying a backend software in 2023. We plan to integrate with the software and leverage their features. The combined solution of EWP and the CPCB platform should empower the Plant owners to run their operations with high efficiency
 - We will have a GPS/AIS GPS integration with our portal, allowing the Plant owners to monitor the fleet in a Single Window.
 - We plan to reduce the infrastructure costs to run small plants of less than 500 HCFs.
- Solid Waste Management
 - We are in discussions with multiple stakeholders to deploy the software in new regions
 - Plans to develop a module for Village level collections as per the Swachh Bharat guidelines.
 - Develop an interface for the Public to monitor the service in their area as well as raise online complaints in case of any issues.