Date	03 September 2022
Team ID	PNT2022TMID38550
Project Name	Project – Smart Waste Management System For Metropolitan Cities
Maximum Marks	4

LITERATURE SURVEY

SMART WASTE MANAGEMENT SYSTEM FOR METROPOLITAN CITIES

S. NO	TITLE OF THE PAPER	AUTHOR NAME	YEAR OF PUBLICATION	REMARKS	OUTPUT
1	IOT based smart waste bin monitoring and municipal solid waste management system for smart cities	Muhammed irfan, Abdullah saeed, Al wadie , adam	4-June/2020	Environmental Pollution. Improper collector and disposal mechanism	Collect the waste effectively. Detection of fire in waste material. Wirelessly connected with the central hub Of transmit the info about the bins filling level with existing collection. Avoid the overflow of bins.

2	Smart garbage segregator and IOT based waste collector system	Mrigank goel, Amogh harsh goyal, Preeti dhiman, Vikas deep, Purshottam sharma	05-March/2021	All wet waste are not used for urban agriculture, organic farming.	It segregates the metallic dry and wet waste. It also convert that it can be further used in urban agriculture, organic farming. It alert the waste management Center through IOT system
					whenever any of the metallic or dry garbage Bins is full to avoid serious environment hazards
3	A novel strategy for waste prediction using machine Learning algorithm with IOT based intelligent waste management system	G.Uganya, D.Rajalakshmi, Arun Radhakrishnan Ramya , Yuvaraja teeka, -raman	10-Feb/2022	Low cost Method High accuracy Complicated method Because of using machine learning algorithm	Automatic method, predicting the possibility of waste things. The waste capacity ,gas level, metal level monitored continuously Using IOT based dustbins. Tested by random forest algorithm gives the accuracy of 92.15% and give time consumptions of 0.2 ms.

4	System waste management	Arafat ali khan Farhana shetu Saimum bari Lawshik shikder	7-Jan/2021	Good enough to prevent the garbage overflow and ensures the partial is perfect waste management and monitoring system	Microcontroller, sensor, GSM are used in the system. This proposed system would have an automated waste level detection process and also a smart monitoring and overall management process.
5	Real time smart garbage bin mechanism for solid waste management in smart cities	Dominic Abuga N.S.Ragava	23-Oct/2021	Fuzzy logic is applied Hence real time decision making avoid real time monitoring	This mechanism proposed accesses real time information of any smart garbage bin deployed across the city and helps to resolve the problem of waste overflow from garbage bins and keeps cities clean

6	Smart waste management system using IOT	V.Pavan sankeeth V.Bhavana V.Santhosh Markandeya	3-Nov/2019	Easy process but garbage truck driven must have cell phones	The server monitors garbage bins that are spread across the city at multiple location sever sends SMS to assigned mobile number which provide route to the driver based on all the data collected from bins
7	Automated waste garbage monitoring system with optimal route generation for collection	Aarati medehal Aniruddha Annaiuru Shalini T.S.Chander	1-Oct/2020	Using of machine learning algorithm improve the redundant inefficient	This purpose of this system is use powerful tools of IOT for completely automated the process of garbage monitoring using ultrasonic sensor and node MCU And provide an optimal route for garbage collection using cluster first route several ml algorithm

8	An IOT based garbage monitoring a disposal support system.	T.M.N Vamsi G.Kalyan chakravathi B.Divakar Protibha	10-April/2021	Consumption of fuel in garbage truck is reduced but clean personal must have smart phone to active this process	This system monitors garbage bins located at different locations and notifies about the level of garbage accumulated in garbage bins through android application to cleaning personnel and provides shortest path to the garbage bin location
9	IOT based solar powered smart waste management system with real time monitoring an advancement for smart city planning	Md.humaun Kabir,sujit roy, Md.tofail ahmed, Mahmudul alam	21-Oct/2020	Project costs complicated but this can be suitable for any kind of cities or town and ensures proper collection and disposal of garbage	It enables real time monitoring of solar powered several smart bins located in different point in the city which are connected to control system through long range (LDRA) Communicati on device and also supervises the waste collection and disposal time using automated
					vehicles locating system

10	Intelligent sensor based waste disposal system for smart cities	Chinmai shetty B.Dhenanyaya Deepa N.Rashmi	1-Nov/2020	Intelligent sensor makes a person to through garbage the bins	Sensor helps is identify the quality of garbage and real collected information the info is send to the drivers and the garbage collected information is updated on the web page this system also ensure that there is no waste thrown around the trash bin the intelligent sender should make beeping sound if any person through around the trash bin and not into the trash bin