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| Date | 20 October 2022 |
| TeamID | PNT2022TMID05666 |
| ProjectName | Project–Smart Waste Management System For Metropolitan Cities |

LITERATURESURVEY

SMARTWASTEMANAGEMENTSYSTEMFORMETROPOLITANCITIES

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| **S.NO** | **TITLE OFTHEPAPER** | **AUTHORNAME** | **YEAR OFPUBLICATION** | **REMARKS** | **OUTPUT** |
| 1 | IOT basedsmartwaste  bin monitoringand municipalsolidwastemanagementsystem forsmartcities | Muhammedirfan,Abdullahsaeed, Alwadie ,adam | 4-June/2020 | EnvironmentalPollution.  Impropercollector anddisposalmechanism | Collect  thewasteeffectively.Detection offireinwastematerial.  Wirelesslyconnected  with the  centralhub  Of transmitthe info aboutthebinsfillinglevelwithexistingcollection.  Avoid the  overflow ofbins. |

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| 2 | A novel  strategy forwastepredictionusing machineLearningalgorithm withIOT basedintelligentwastemanagementsystem | G.Uganya,D.Rajalakshmi,ArunRadhakrishnanRamya ,Yuvarajateeka,-raman | 10-Feb/2022 | Low costMethod  HighaccuracyComplicatedmethodBecause ofusingmachinelearningalgorithm | Automaticmethod,predicting thepossibility ofwaste things.The wastecapacity ,gaslevel,metallevelmonitoredcontinuouslyUsing IOTbased  dustbins.Tested byrandom forestalgorithmgives the  accuracy of  92.15% andgive timeconsumptionsof0.2 ms. |

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| 3 | System  wastemanagement | ArafatalikhanFarhana shetuSaimum bariLawshikshikder | 7-Jan/2021 | Goodenoughto prevent thegarbageoverflowandensures thepartial isperfect wastemanagementandmonitoringsystem | Microcontroller, sensor,GSMareusedinthesystem.Thisproposedsystem wouldhave  anautomatedwasteleveldetectionprocessandalso a smartmonitoringand overall  managementprocess. |
| 4 | Real timesmartgarbage  binmechanism | DominicAbuga  N.S.Ragava | 23-Oct/2021 | Fuzzylogicisapplied  Hencereal | Thismechanism  proposed |

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|  | for solid wastemanagement insmartcities |  |  | time decisionmaking avoidrealtimemonitoring | accesses realtimeinformationofany smartgarbage bindeployedacrossthecityand helps toresolve theproblemofwasteoverflowfromgarbage binsandkeepscitiesclean |

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| 5 | Smart wastemanagementsystem usingIOT | V.PavansankeethV.BhavanaV.SanthoshMarkandeya | 3-Nov/2019 | Easyprocessbutgarbagetruckdrivenmust have cellphones | Theservermonitorsgarbagebinsthat are spreadacross the cityat multiplelocationseversendsSMStoassignedmobilenumberwhichproviderouteto the driverbased on allthe datacollectedfrom  bins |
| 6 | Automatedwaste garbagemonitoringsystem withoptimal routegenerationforcollection | Aarati medehalAniruddhaAnnaiuruShaliniT.S.Chander | 1-Oct/2020 | Using ofmachinelearningalgorithmimprovetheredundantinefficient | This purposeof this systemis usepowerful toolsof IOTforcompletelyautomated theprocess  of garbagemonitoringusingultrasonicsensor  andnode MCUAndprovideanoptimalroute  forgarbage |

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|  |  |  |  |  | collectionusingclusterfirst routeseveralmlalgorithm |

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| 7 | An IOT basedgarbagemonitoring adisposalsupportsystem. | T.M.N VamsiG.KalyanchakravathiB.DivakarProtibha | 10-April/2021 | Consumptionof fuel ingarbagetruckisreducedbutcleanpersonalmust havesmartphonetoactive thisprocess | Thissystemmonitorsgarbage  binslocated  at differentlocations andnotifies aboutthe level ofgarbageaccumulatedin garbagebinsthroughandroidapplication tocleaningpersonnel andprovidesshortest  path tothe garbagebinlocation |
| 8 | IOT basedsolar poweredsmart wastemanagementsystem with  real timemonitoringanadvancementforsmartcityplanning | Md.humaunKabir,sujit roy,Md.tofailahmed,Mahmudulalam | 21-Oct/2020 | Project costscomplicatedbutthiscanbesuitable for anykindofcitiesortown andensures propercollection anddisposal ofgarbage | Itenablesrealtimemonitoringofsolarpoweredseveralsmartbinslocated indifferentpointin the city  which areconnected tocontrol systemthrough longrange (LDRA)Communicationdeviceandalsosupervisesthewastecollectionanddisposaltimeusing  automated |
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| 9 | Intelligentsensor basedwaste disposalsystem forsmartcities | Chinmai shettyB.DhenanyayaDeepaN.Rashmi | 1-Nov/2020 | Intelligentsensormakesaperson tothroughgarbage thebins | Sensor helpsisidentifythequality ofgarbage andreal collectedinformationthe  info issendtothe  driversandthe  garbagecollectedinformationis  updated  onthewebpage thissystemalsoensurethat  thereis nowastethrown  around thetrash bin theintelligentsender shouldmake beepingsound if anypersonthrough  around  the trashbinandnotinto the  trashbin |