CONTENTS

ACKNOWLEDGEMENTS

CHAPTER – 1 INTRODUCTION ........................................................................................................

CHAPTER – 2 REVIEW OF LITERATURE .....................................................................................

CHAPTER – 3 MATERIALS AND METHODS ................................................................................

CHAPTER – 4 OBSERVATIONS ....................................................................................................

4.1. SOLID WASTE GENERATION AT RESIDENTIAL AREAS (HOUSEHOLDS) OF KATHUA TOWN
......................................................................................................................................................

4.1.a. Seasonal Variations in Average Gross Solid Waste (kg/capita/day)
Generation in different Zones of Kathua Town.........................................................

4.1.b. Seasonal Variations in Average Recyclable/Reused Solid Waste
(kg/capita/day) Separation in different Zones of Kathua Town................................

4.1.c. Seasonal Variations in Average Net Solid Waste (kg/capita/day)
Generation in Different Zones of Kathua Town......................................................

4.1.d. Seasonal Variations in Qualitative and Quantitative Composition of
Average Gross Solid Waste (kg/capita/day) Generation in Different
Zones of Kathua Town..............................................................................................

4.1.e. Seasonal Variations in Qualitative and Quantitative Composition of
Average Recyclable/Reused Solid Waste (kg/capita/day) Separation
at source in Kathua Town.....................................................................................

4.1.f. Seasonal Variations in Qualitative and Quantitative Composition of
Average Net Solid Waste (kg/capita/day) Generation at source in
Kathua Town...........................................................................................................

4.1.g. Average Gross and Net Solid Waste (kg/capita/day) Generation in
Residential Areas (Households) of Kathua Town................................................

4.2. SOLID WASTE GENERATION AT COMMERCIAL AREAS OF KATHUA TOWN

4.2.a. Solid Waste Generation in Shops of Kathua Town..........................

4.2.a.i. Seasonal Variation in Average Gross Solid (kg/ capita/day)
Generation at Source (Shops)..............................................................................

4.2.a.ii. Seasonal Variations in Average Recyclable/Reused Solid
Waste (kg/capita/day) Separation at Source (Shops)..........................

4.2.a.iii. Seasonal Variations in the Average Net Solid Waste
(kg/capita/day) Generation at Source (Shops)..............................................

4.2.a.iv. Seasonal Variations in Qualitative and Quantitative
Composition of Average Solid Waste (kg/capita/day)
Generation and Separation in Different Shops of Kathua
Town..................................................................................................................
4.2.b. Solid Waste Generation in Cinemas of Kathua Town

4.2.b.i. Seasonal Variations in Average Gross Solid Waste (kg/capita/day) Generation at Source (Cinemas) ................................
4.2.b.ii. Seasonal Variations in the Average Recyclable/Reused Solid Waste (kg/capita/day) Separation at Source (Cinemas) ...........
4.2.b.iii. Seasonal Variations in the Average Net Solid Waste (kg/capita/day) Generation at Source (Cinemas) ......................
4.2.b.iv. Seasonal Variations in Qualitative and Quantitative Composition and Separation in Cinemas of Kathua Town ..........

4.2.c. Solid Waste Generation in Hotels of Kathua Town

4.2.c.i. Seasonal Variations in Average Gross Solid Waste (kg/capita/day) Generation at Source (Hotels) ........................
4.2.c.ii. Seasonal Variations in the Average Recyclable/Reused Solid Waste (kg/capita/day) Separation at Source (Hotels) .........
4.2.c.iii. Seasonal Variations in the Average Net Solid Waste (kg/capita/day) Generation at Source (Hotels) ...........................
4.2.c.iv. Seasonal Variations in Qualitative and Quantitative Composition of Average Solid Waste (kg/capita/day) Generation and Separation in Hotels of Kathua Town ....

4.2.d. Solid Waste Generation in Restaurants of Kathua Town

4.2.d.i. Seasonal Variations in Average Gross Solid Waste (kg/capita/day) Generation at Source (Restaurants) ...............
4.2.d.ii. Seasonal Variations in the Average Recyclable/Reused Solid Waste (kg/capita/day) Separation at Source (Restaurants) ....
4.2.d.iii. Seasonal Variations in the Average Net Solid Waste (kg/capita/day) Generation at Source (Restaurants) ...............
4.2.d.iv. Seasonal Variations in Qualitative and Quantitative Composition of Average Solid Waste (kg/capita/day) Generation and Separation in Restaurants of Kathua Town ....

4.2.e. Average Gross and Net Solid Waste (kg/capita/day) Generation in Commercial Areas of Kathua Town

4.2.f. Seasonal Variations in Average Solid Waste (kg/capita/day) Generation at Bus Stands of Kathua Town

4.2.g. Seasonal Variations in Average Solid Waste (kg/capita/day) Generation at Vegetable Markets of Kathua Town

4.3. SOLID WASTE GENERATION AT INSTITUTIONAL AREAS OF KATHUA TOWN

4.3.a. Solid Waste Generation in Banks of Kathua Town

4.3.a.i. Seasonal Variations in Average Gross Solid Waste (kg/capita/day) Generation at Source (Banks) ....................
4.3.a.ii. Seasonal Variations in Average Recyclable/Reused Solid Waste (kg/capita/day) Separation at Source (Banks) ............
4.3.a.iii. Seasonal Variations in the Average Net Solid Waste (kg/capita/day) Generation at Source (Banks) ....................
4.3.a.iv. Seasonal Variations in Qualitative and Quantitative
Composition of Average Solid Waste (kg/capita/day) Generation and Separation in Banks of Kathua Town………

4.3.b. Solid Waste Generation in Offices of Kathua Town………………
   4.3.b.i. Seasonal Variations in Average Gross Solid Waste (kg/capita/day) Generation at Source (Offices)………………
   4.3.b.ii. Seasonal Variations in Average Recyclable/Reused Solid Waste (kg/capita/day) Separation at Source (Offices)……
   4.3.b.iii. Seasonal Variations in the Average Net Solid Waste (kg/capita/day) Generation at Source (Offices)………………
   4.3.b.iv. Seasonal Variations in Qualitative and Quantitative Composition of Average Solid Waste (kg/capita/day) Generation and Separation in Offices of Kathua Town………

4.3.c. Solid Waste Generation in Hospitals of Kathua Town………………
   4.3.c.i. Seasonal Variations in Average Gross Solid Waste (kg/capita/day) Generation at Source (Hospitals)………………
   4.3.c.ii. Seasonal Variations in Average Recyclable/Reused Solid Waste (kg/capita/day) Separation at Source (Hospitals)……
   4.3.c.iii. Seasonal Variations in the Average Net Solid Waste (kg/capita/day) Generation at Source (Hospitals)………………
   4.3.c.iv. Seasonal Variations in Qualitative and Quantitative Composition of Average Solid Waste (kg/capita/day) Generation and Separation in Hospitals of Kathua Town………

4.3.d. Solid Waste Generation in Primary Schools of Kathua Town……
   4.3.d.i. Seasonal Variations in Average Gross Solid Waste (kg/capita/day) Generation at Source (Primary Schools)……
   4.3.d.ii. Seasonal Variations in Average Recyclable/Reused Solid Waste (kg/capita/day) Separation at Source (Primary Schools).
   4.3.d.iii. Seasonal Variations in the Average Net Solid Waste (kg/capita/day) Generation at Source (Primary Schools)……
   4.3.d.iv. Seasonal Variations in Qualitative and Quantitative Composition of Average Solid Waste (kg/capita/day) Generation and Separation in Primary Schools of Kathua Town………………………………………………

4.3.e. Solid Waste Generation in Middle Schools of Kathua Town……
   4.3.e.i. Seasonal Variations in Average Gross Solid Waste (kg/capita/day) Generation at Source (Middle Schools)……
   4.3.e.ii. Seasonal Variations in Average Recyclable/Reused Solid Waste (kg/capita/day) Separation at Source (Middle Schools).
   4.3.e.iii. Seasonal Variations in the Average Net Solid Waste (kg/capita/day) Generation at Source (Middle Schools)……
   4.3.e.iv. Seasonal Variations in Qualitative and Quantitative Composition of Average Solid Waste (kg/capita/day) Generation and Separation in Middle Schools of Kathua Town………………………………………………
4.3.f. Solid Waste Generation in High Schools of Kathua Town

4.3.f.i. Seasonal Variations in Average Gross Solid Waste (kg/capita/day) Generation at Source (High Schools)

4.3.f.ii. Seasonal Variations in Average Recyclable/Reused Solid Waste (kg/capita/day) Separation at Source (High Schools)

4.3.f.iii. Seasonal Variations in the Average Net Solid Waste (kg/capita/day) Generation at Source (High Schools)

4.3.f.iv. Seasonal Variations in Qualitative and Quantitative Composition of Average Solid Waste (kg/capita/day) Generation and Separation in High Schools of Kathua Town

4.3.g. Solid Waste Generation in Higher Secondary Schools of Kathua Town

4.3.g.i. Seasonal Variations in Average Gross Solid Waste (kg/capita/day) Generation at Source (Higher Secondary School)

4.3.g.ii. Seasonal Variations in Average Recyclable/Reused Solid Waste (kg/capita/day) Separation at Source (Higher Secondary Schools)

4.3.g.iii. Seasonal Variations in the Average Net Solid Waste (kg/capita/day) Generation at Source (Higher Secondary Schools)

4.3.g.iv. Seasonal Variations in Qualitative and Quantitative Composition of Average Solid Waste (kg/capita/day) Generation and Separation in Higher Secondary Schools of Kathua Town

4.3.h. Solid Waste Generation in Colleges of Kathua Town

4.3.h.i. Seasonal Variations in Average Gross Solid Waste (kg/capita/day) Generation at Source (College)

4.3.h.ii. Seasonal Variations in Average Recyclable/Reused Solid Waste (kg/capita/day) Separation at Source (College)

4.3.h.iii. Seasonal Variations in the Average Net Solid Waste (kg/capita/day) Generation at Source (College)

4.3.h.iv. Seasonal Variations in Qualitative and Quantitative Composition of Average Solid Waste (kg/capita/day) Generation and Separation in Colleges of Kathua Town

4.3.i. Average Gross and Net Solid Waste (kg/capita/day) Generation in Institutional Areas of Kathua Town

4.4. AVERAGE WEIGHT OF SOME RECYCLABLE/REUSED BIODEGRADABLE AND NON-Biodegradable ITEMS

4.5. AVERAGE GROSS AND NET SOLID WASTE (KG/CAPITA/DAY) GENERATION IN STUDY AREA (KATHUA TOWN)
4.6. SOCIO-ECONOMIC STATUS OF WASTE COLLECTORS/BUYERS IN STUDY AREA (KATHUA TOWN)........................................................................................................
   4.6.a. Socio-Economic Status of Ragpickers in Study Area (Kathua Town)........................................................................................................
   4.6.b. Socio-Economic Status of Itinerant Waste Buyers (IWB) in Study Area (Kathua Town).................................................................
   4.6.c. Socio-Economic Status of Small Enterprises Middlemen (SEM) in Study Area (Kathua Town)..........................................................
   4.6.d. Socio-Economic Status of Wholesale Waste Dealers (WWD) in Study Area (Kathua Town).........................................................

4.7. SOCIO-PERSONAL SURVEY REGARDING HEALTH AND AWARENESS ABOUT SOLID WASTE MANAGEMENT IN KATHUA TOWN.................................................................
   4.7.a. In Residential Areas (Households)..................................................
   4.7.b. In Commercial Areas (Shops)......................................................
   4.7.c. In Institutional Areas................................................................

4.8. EXISTING SOLID WASTE DISPOSAL AND MANAGEMENT SYSTEM IN KATHUA TOWN........................................................................................................

CHAPTER – 5 DISCUSSION..............................................................................................

CHAPTER – 6 SUMMARY AND CONCLUSIONS............................................................

CHAPTER – 7 BIBLIOGRAPHY ....................................................................................
INTRODUCTION