

# EXTENDED PRODUCER RESPONSIBILITY (EPR)

## QUARTERLY WASTE COLLECTION & MANAGEMENT REPORT

**Submitted to:** Central Pollution Control Board (CPCB) & Maharashtra State Pollution Control Board (MPCB)

**Organization:** Tata Consultancy Services Limited

**Registration Certificate No.:** CPCB/EPR/2024/TCS-12847

**Reporting Period:** Q2 FY 2024-25 (July - September 2024)

**Submission Date:** 15th October 2024

### PART A: ORGANIZATION DETAILS

Field	Details
Organization Name	Tata Consultancy Services Limited
Registered Office	9th Floor, Nirmal Building, Nariman Point, Mumbai - 400 021
CIN	L22210MH1995PLC084781
GSTIN	27AABCT0808Q1ZE
Contact Person	Pradeep Manohar Gaitonde, Company Secretary
Contact No.	+91-22-6778-9595
Email	<a href="mailto:corporate.office@tcs.com">corporate.office@tcs.com</a>
Authorized Signatory	Pradeep Manohar Gaitonde
Reporting Quarter	Q2 (Jul-Sep 2024)
Financial Year	FY 2024-25

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## PART B: PLASTIC CONSUMPTION & WASTE GENERATION DATA

### B.1 Quantity & Type of Plastic Consumed

Plastic Type	Consumption (MT)	Primary Use	Remarks
LDPE (Low-Density Polyethylene)	125.40	Protective films, bags	Flexible packaging
HDPE (High-Density Polyethylene)	89.60	Hard covers, cases	Product packaging
PP (Polypropylene)	76.30	Containers, inserts	Product protection
PET (Polyethylene Terephthalate)	54.80	Rigid containers, trays	Secondary packaging
MLP (Multi-Layered Plastic)	38.50	Composite packaging	Mixed material pouches
<b>TOTAL PLASTIC CONSUMED</b>	<b>384.60 MT</b>	-	<b>Q2 FY 2024-25</b>

#### Quarter-wise Consumption Breakdown:

- July 2024: 125.40 MT
- August 2024: 132.20 MT
- September 2024: 127.00 MT
- **Total for Q2: 384.60 MT**

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### B.2 Estimated Quantity of Plastic Waste Generated

Category	Quantity (MT)	Percentage
Pre-consumer Waste (Factory scrap, trimmings)	28.50	7.4%
Post-consumer Waste (From end-users)	356.10	92.6%
<b>TOTAL PLASTIC WASTE GENERATED</b>	<b>384.60 MT</b>	<b>100%</b>

**Key Assumption:** Post-consumer waste estimated to match consumption based on product lifecycle and historical data.

## PART C: WASTE COLLECTION DETAILS

### C.1 Waste Collected Through Own Distribution Channel

Parameter	Details
Collection Method	Reverse logistics through existing IT product distribution network
States Covered	Maharashtra, Karnataka, Tamil Nadu, Delhi, Telangana, Gujarat, West Bengal
Collection Points	15 authorized service centers & distribution hubs
Waste Collected (MT)	145.30

**Monthly Breakdown (Own Distribution Channel):**

Month	Collection (MT)	Collection Points Active	Supporting Documents
July 2024	45.80	15	Center receipts & manifests
August 2024	49.20	15	Center receipts & manifests
September 2024	50.30	15	Center receipts & manifests
Q2 Total	145.30	-	Submitted with report

**Collection Centers Details:**

- Mumbai Service Center: 28.40 MT (Nirmal Building location)
- Bangalore Office: 22.15 MT
- Chennai Service Center: 19.80 MT
- Delhi NCR Hub: 24.30 MT
- Hyderabad Collection Point: 18.95 MT
- Pune Facility: 16.45 MT
- Kolkata Service Center: 15.25 MT

**Supporting Documents Submitted:**

- Signed waste receipt certificates from all 15 collection centers
- Manifest sheets for waste transportation
- Photographs of collection infrastructure
- Monthly collection registers with timestamps

**C.2 Waste Collected Through Urban Local Bodies (ULBs)**

ULB Partner	State	Waste Collected (MT)	Type of Engagement
Brihanmumbai Municipal Corporation (BMC)	Maharashtra	85.40	Direct partnership
Bangalore Solid Waste Management	Karnataka	52.80	Waste segregation centers
Chennai Corporation	Tamil Nadu	42.30	Community collection program
Delhi Waste Management	Delhi	38.90	Bulk waste aggregation
<b>Total Through ULBs</b>	-	<b>219.40 MT</b>	-

**Details of ULB Engagement:**

ULB Name	Agreement Period	Scope of Work	Waste Type
BMC Mumbai	Valid till 31-Mar-2025	Collection, segregation, storage	LDPE, HDPE, PP, MLP
BSWM Bangalore	Valid till 30-Jun-2025	Segregation, transportation	PET, HDPE, PP
Chennai Corp	Valid till 31-Dec-2024	Community collection drives	Multi-plastic streams
Delhi WM	Valid till 31-Mar-2025	Aggregation at transfer stations	All types

**Supporting Documents Submitted:**

- Memoranda of Understanding (MoU) with all ULBs
- Signed engagement letters from respective municipal authorities
- Monthly waste collection certificates from ULBs
- Photographs of collection infrastructure
- Waste segregation records

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### C.3 Waste Collected Through Waste Management Agencies (WMAs)

WMA Partner	State	ULB Partner	Waste Collected (MT)
Green Solutions India Pvt. Ltd.	Telangana	Hyderabad Municipal Corp	28.40
Eco Management Services	Gujarat	Ahmedabad Municipal Corp	22.80
Sustainable Waste Solutions	West Bengal	Kolkata Municipal Corp	15.20
<b>Total Through WMAs</b>	-	-	<b>66.40 MT</b>

#### WMA Engagement Details:

- 1. Green Solutions India Pvt. Ltd. (Hyderabad)**
  - Agreement Period: Valid till 30-Sep-2025
  - Scope: Collection from distribution hubs, segregation at facility
  - Waste Types Handled: All plastic types
  - Authorized by: Hyderabad Municipal Corporation (Nov 2023)
  - Q2 Collection: 28.40 MT
- 2. Eco Management Services (Ahmedabad)**
  - Agreement Period: Valid till 31-Dec-2024
  - Scope: Community outreach, collection drives
  - Waste Types Handled: LDPE, HDPE, PP, PET
  - Authorized by: Ahmedabad Municipal Corporation (Feb 2024)
  - Q2 Collection: 22.80 MT
- 3. Sustainable Waste Solutions (Kolkata)**
  - Agreement Period: Valid till 31-Mar-2025
  - Scope: Collection from retail points, transportation
  - Waste Types Handled: Multi-layer plastics, flexible packaging
  - Authorized by: Kolkata Municipal Corporation (Jan 2024)
  - Q2 Collection: 15.20 MT

#### Supporting Documents Submitted:

- Agreements between TCS and each WMA
- ULB authorization certificates for each WMA

- WMA registration certificates from respective SPCBs
- Monthly waste collection reports from WMAs
- Transportation manifests and receipts

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## PART D: SUMMARY OF WASTE COLLECTED

### D.1 Total Waste Collection Summary

Collection Channel	Waste Collected (MT)	% of Total	Status
Own Distribution Channel	145.30	27.1%	On-track
Through ULBs	219.40	40.9%	Exceeding target
Through WMAs	66.40	12.4%	On-track
<b>TOTAL WASTE COLLECTED (Q2)</b>	<b>431.10 MT</b>	<b>80.4%</b>	<b>Satisfactor y</b>

**Waste Not Yet Collected:** 90.50 MT (19.6% of total generated)

- Expected to be collected in Q3 FY 2024-25
- Under coordination with additional collection partners

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## PART E: WASTE PROCESSING & DISPOSAL DETAILS

### E.1 Waste Sent to Recycling Facilities

<b>Recycling Facility</b>	<b>State</b>	<b>Facility Type</b>	<b>Waste Processed (MT)</b>	<b>Plastic Type</b>	<b>SPCB Reg. Valid Till</b>
Plastex Recyclers Pvt. Ltd.	Maharashtra	Plastic pelletization	145.20	LDPE, HDPE, PP	31-Mar-2025
GreenPlast Industries	Karnataka	Film extrusion & recycling	98.60	LDPE, HDPE	30-Jun-2025
TN Recycling Solutions	Tamil Nadu	Injection molding resin	72.40	PP, PET, HDPE	31-Dec-2024
Delhi Plastic Recyclers	Delhi	Pellet production	65.30	PP, HDPE	31-Mar-2025
<b>TOTAL RECYCLED</b>	-	-	<b>381.50 MT</b>	-	-

#### **Recycling Facility Agreements:**

- **Plastex Recyclers Pvt. Ltd.** – Processing capacity: 500 TPA; Agreement valid till 30-Sep-2025
- **GreenPlast Industries** – Processing capacity: 400 TPA; Agreement valid till 31-Dec-2024
- **TN Recycling Solutions** – Processing capacity: 350 TPA; Agreement valid till 30-Jun-2025
- **Delhi Plastic Recyclers** – Processing capacity: 300 TPA; Agreement valid till 31-Mar-2025

#### **Supporting Documents:**

- Signed agreements with all recycling facilities
  - SPCB registration certificates for each facility
  - Monthly recycling certificates (waste in / processed quantity)
  - Quality test reports of recycled material
  - Transportation manifests
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## E.2 Waste Sent for Co-Processing

Co-processing Facility	State	Facility Type	Waste Processed (MT)	Material Type
Lafarge Cement India	Madhya Pradesh	Cement kiln co-processing	35.80	MLP, contaminate d plastic
Dalmia Cement Bharat	Karnataka	Cement manufacturing	12.30	Low-value plastic waste
<b>TOTAL CO-PROCESSED</b>	-	-	<b>48.10 MT</b>	-

### Co-processing Details:

Facility	Process Type	Waste Category	Agreement Till
Lafarge Cement India	Calorific value recovery	MLP, composite waste	31-Mar-2025
Dalmia Cement Bharat	Fuel substitution	Mixed plastic streams	30-Jun-2025

### Environmental Benefits:

- Replacement of 14.2 MT of fossil-based fuels
- Reduction in CO2 emissions: approximately 42 MT CO2e equivalent
- Zero landfill disposed waste through co-processing

### Supporting Documents:

- Waste acceptance certificates from cement facilities
  - Co-processing capability certificates
  - Calorific value test reports
  - Ash management records
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E.3 Waste Disposal Summary

Disposal Method	Quantity (MT)	% of Total Collected	Status
Recycling	381.50	88.5%	Primary method
Co-processing	48.10	11.2%	Secondary method
Landfill disposal	1.50	0.3%	Non-recoverable waste only
<b>TOTAL PROCESSED (Q2)</b>	<b>431.10</b>	<b>100%</b>	<b>Complete</b>

Landfill Disposal Details (1.50 MT):

- Contaminated/non-recyclable plastic waste
- Disposal at authorized landfill: MSWM Landfill, Deonar, Mumbai
- Disposal certificate attached

PART F: EPR TARGET COMPLIANCE

F.1 EPR Target vs. Achievement

Parameter	Annual Target (MT)	Q2 Target (MT)	Q2 Achievement (MT)	Achievement %
Plastic Waste Collection	384.60	96.15	143.70	149.4%
Plastic Waste Processing	384.60	96.15	141.20	146.8%
Recycling Rate	85% (min.)	81.62 MT	142.30	174.2%

F.2 Status of EPR Target Achievement

Target Parameter	Target Value	Achieved	Status	Remarks
<b>Total Plastic Waste Collection</b>	384.60 MT/year	143.70 MT (Q2)	✓ Exceeding	149.4% of quarterly target
<b>Waste Processing</b>	384.60 MT/year	141.20 MT (Q2)	✓ Exceeding	146.8% of quarterly target
<b>Recycling Percentage</b>	≥85% of collected	89.1%	✓ Exceeding	4.1% above minimum target
<b>Landfill Diversion</b>	≥99% from landfill	99.7%	✓ Compliant	Only 1.50 MT to landfill

**Assessment:**

TCS has successfully exceeded all EPR targets for Q2 FY 2024-25, demonstrating robust waste management infrastructure and effective partnerships with collection and processing agencies.

## PART G: COMPLIANCE & MONITORING

### G.1 Regulatory Compliance Status

<b>Compliance Requirement</b>	<b>Status</b>	<b>Evidence</b>
Quarterly Return Filing	Submitted	Filed on 15-Oct-2024 (within deadline)
Waste Collection Documentation	Complete	Certificates attached for all channels
Processing Facility Registration	Valid	All facilities have current SPCB registrations
Waste Management Agreements	Active	All partnerships current and authorized
Third-Party Audit Status	Passed	Annual audit completed in March 2024
Environmental Compensation Charges	Nil	Targets exceeded; no ECC applicable

## G.2 Quality Assurance Measures

- Monthly verification of waste collected through physical inspections
- Quarterly audits by third-party environmental consultants
- Real-time tracking of waste through waste management software
- Regular training of collection center staff on segregation protocols
- Compliance audits by TCS internal environment team

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## PART H: CHALLENGES & MITIGATION MEASURES

Challenge	Impact	Mitigation Measure	Status
Seasonal variation in waste generation	±8% monthly variance	Maintained buffer facilities in all regions	On-track
Collection center operational issues	Temporary capacity reduction	Added 2 new centers in Q3	Resolved
Contractor performance variance	Inconsistent collection rates	Enhanced monitoring & SLAs	Improving
Transportation logistics	Occasional delays in processing	Engaged backup transportation partner	Resolved

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## PART I: PLANS FOR NEXT QUARTER (Q3 FY 2024-25)

### I.1 Projected Activities

- 1. Expansion of Collection Infrastructure**
  - Addition of 5 new collection centers in tier-2 cities
  - Implementation of deposit-refund scheme in 10 select locations
- 2. Partnership Enhancement**
  - Engagement with 2 additional waste management agencies
  - Collaboration with e-commerce partners for reverse logistics
- 3. Technology Integration**
  - Launch of waste tracking mobile application for customers
  - Implementation of blockchain-based waste documentation
- 4. Awareness Programs**
  - Employee engagement campaign on waste segregation
  - Customer outreach through digital & print media

### I.2 Projected Q3 Targets

- Plastic waste collection: 420 MT
  - Waste processing completion: 450 MT (including Q2 carry-forward)
  - Recycling rate maintenance: ≥85%
  - Zero landfill target: Achieve 99.8%
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## PART J: ENVIRONMENTAL IMPACT ASSESSMENT

### J.1 Quantified Environmental Benefits (Q2 FY 2024-25)

Metric	Achievement
Plastic Waste Diverted from Landfill	429.60 MT (99.7%)
Recycled Material Generated	381.50 MT
Fossil Fuel Replacement (Co-processing)	14.2 MT
CO2e Emissions Prevented	1,298 MT CO2e
Energy Saved (recycling process)	2,156 GJ
Water Saved	8,640 KL
Virgin Plastic Avoided	381.50 MT equivalent

### J.2 Circular Economy Contribution

- **Recycled Plastic Applications:** Secondary packaging, straps, films, construction materials
- **Material Recovery Rate:** 88.5% of collected waste
- **Closed-Loop Systems:** Established feedback mechanism with recyclers for quality improvement

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## PART K: GRIEVANCE & REDRESSAL

### K.1 Grievance Redressal Mechanism

For Queries/Complaints Related to EPR Compliance:

Category	Contact Details
EPR Compliance Issues	Pradeep Manohar Gaitonde, Company Secretary; <a href="mailto:corporate.office@tcs.com">corporate.office@tcs.com</a>
Waste Collection Concerns	EPR Grievance Cell: +91-22-6778-9595 ext. 2847
CPCB Escalation	<a href="mailto:epr-plastic@cpcb.gov.in">epr-plastic@cpcb.gov.in</a> ; Phone: +91-11-43102350
Maharashtra SPCB	<a href="mailto:mpcb.grievance@mpcb.gov.in">mpcb.grievance@mpcb.gov.in</a>

Grievances Received in Q2 FY 2024-25: Nil

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## PART L: CERTIFICATION & ATTESTATION

I hereby certify that the information provided in this quarterly return is accurate, complete, and submitted in compliance with the Plastic Waste Management Rules, 2016 (as amended) and the EPR Authorization granted by CPCB vide Certificate No. CPCB/EPR/2024/TCS-12847.

The waste collection and processing details mentioned above are supported by original documents from respective facility operators and regulatory authorities.

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### Authorization Signatures

#### Prepared By:

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Name: Arun Sharma  
Designation: Head, Environmental Compliance  
Tata Consultancy Services Limited  
Date: 10th October 2024

#### Reviewed By:

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Name: Rajesh Patel  
Designation: Environment & Sustainability Manager  
Tata Consultancy Services Limited  
Date: 12th October 2024

#### Authorized By:

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Name: Pradeep Manohar Gaitonde  
Designation: Company Secretary  
Tata Consultancy Services Limited  
Membership No. ACS 7016  
Date: 15th October 2024

**[OFFICIAL COMPANY SEAL]**

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## APPENDICES

### Appendix-1: List of Supporting Documents Submitted

1. Waste collection certificates from 15 collection centers
2. Signed agreements with ULB partners (4 documents)
3. WMA authorization letters & registration certificates (3 documents)
4. Recycling facility agreements & SPCB registrations (4 documents)
5. Co-processing facility agreements (2 documents)
6. Monthly waste collection reports from all partners

7. Transportation manifests & waste tracking records
8. Third-party environmental audit report (Annual)
9. Photographs of collection infrastructure
10. Quality test reports of recycled material
11. Landfill disposal certificate

## Appendix-2: Contact Information of Collection & Processing Partners

Partner Name	Type	State	Contact No.	Email
Plastex Recyclers Pvt. Ltd.	Recycler	Maharashtra	+91-20-4567-8900	<a href="mailto:info@plastexrecyclers.com">info@plastexrecyclers.com</a>
GreenPlast Industries	Recycler	Karnataka	+91-80-2345-6789	<a href="mailto:contact@greenplast.in">contact@greenplast.in</a>
TN Recycling Solutions	Recycler	Tamil Nadu	+91-44-2234-5678	<a href="mailto:info@tnrecycling.in">info@tnrecycling.in</a>
Delhi Plastic Recyclers	Recycler	Delhi	+91-11-4578-9012	<a href="mailto:delhi@plasticrecyclers.com">delhi@plasticrecyclers.com</a>
Lafarge Cement India	Co-processor	Madhya Pradesh	+91-755-2345-678	<a href="mailto:eprcm@lafarge.co.in">eprcm@lafarge.co.in</a>
BMC (Mumbai)	ULB	Maharashtra	+91-22-2263-6565	<a href="mailto:bmc.waste@mcgm.gov.in">bmc.waste@mcgm.gov.in</a>
BSWM (Bangalore)	ULB	Karnataka	+91-80-2345-0000	<a href="mailto:contact@bswm.gov.in">contact@bswm.gov.in</a>

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**CPCB EPR Portal:** <https://eprplastic.cpcb.gov.in>

**Maharashtra SPCB Website:** <https://mpcb.gov.in>