

Bidding App - Requirements Document

Project Name

Bidding App

User Roles

1. **Waste Generator**
 - Can create bids (post waste for auction).
 - Can see all bids placed on their waste.
 - Can select a winner, change the winner if necessary.
 - Can generate gate passes.
 2. **Recycler**
 - Can view and participate in bids.
 - Can bid and update their bids.
 - Can upload proof of pickup if selected as winner.
 3. **Aggregator**
 - Same rights as Recycler.
 4. **Admin**
 - Approves user registrations.
 - Approves bids before they go live.
 - Sets base price if not provided.
 - Monitors all bid logs, actions, and documents.
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Authentication & Authorization

Registration Page

- Fields:
 - Email
 - Phone Number
 - Password
 - Role (Waste Generator / Aggregator / Recycler)
 - Telephone Number
 - GST Number
 - PAN Card
 - Bank Details
 - Authorised Signatory
 - Materials Handled by his/her Company
 - Nature of Industry(Recycling, Disposal (Hazardous), Refurbish/Reuse)

Post Registration

- User status: **Pending Approval**
 - Admin receives a request and can **Approve/Reject** users.
 - Only approved users can log in.
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Waste Generator Workflow

Bid Creation Form

- Photos of the waste
- Date & Time for bid to start
- Estimated Waste Weight
- Description of waste
- EMD (Earnest Money Deposit) amount
- Base Price (Optional)
- Platform fee payment

Workflow

1. User submits a form with payment.
 2. If the Base **Price is not set**, the admin sets it.
 3. Admin **reviews and approves** the bid.
 4. Approved bid goes **live at scheduled time** for **2 minutes** only.
 5. The Waste Generator can monitor bids in real-time.
 6. After close, select the **winner** manually.
 7. Can update/change winner in case of **default**.
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Bidder (Aggregator/Recycler) Workflow

Viewing Bids

- Only approved and live bids can be viewed.

Participating in Bids

- Must **register for a bid** (by paying platform fee + EMD).
- Receives **notification** at bid start time.
- Can:
 - Place a bid.
 - Cancel and re-bid.
- Bidding happens anonymously:
 - **Only bid amounts visible**, no user details.

Post Bidding

- Can view **ranking** once bidding ends.
 - If selected as **winner**:
 - Submit:
 - Pickup Date & Time
 - Vehicle Details
 - Driver Details
 - Wait for **gate pass approval** by Waste Generator.
 - On pickup day:
 - Upload **empty & loaded weighbridge images** as proof.
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Admin Features

User Management

- View pending users.
- Approve/Reject registrations.

Bid Management

- View submitted bids.
- Approve/Reject bids.
- Set base price if not provided.

Monitoring & Logs

- View full history:
 - Bids created
 - Bidding amounts with timestamps
 - Selected winner
 - Changes in winner
 - Uploaded proofs
 - Gate pass details (PDFs)
 - Full audit trail per bid
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Documents & Notifications

Notifications

- Sent to registered bidders at **bid start time**.
- Notify all bidders when:
 - Winner is announced

- Ranking is published

Gate Pass

- Generated as PDF by Waste Generator.
 - Contains:
 - Winner details
 - Vehicle, driver info
 - Pickup date & time
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Bid Structure & Lifecycle

Bid Lifecycle

1. **Creation**
 2. **Admin Review**
 3. **Live Bidding** (2 mins)
 4. **Bid Close**
 5. **Winner Declaration**
 6. **Gate Pass Generation**
 7. **Pickup Proof Upload**
 8. **Closure**
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Notes & Conditions

- A Waste Generator can post **multiple bids** at once.
 - All financial actions (platform fee, EMD) must be logged.
 - Admin has **visibility into all data** and can export reports.
 - Winner selection is **manual**, and can be re-assigned if required.
 - Platform must ensure **secure file uploads** (photos, PDFs).
 - Time-sensitive operations (2-minute bidding) must be **server-synchronized**.
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Deliverables

- Admin Panel
- User Registration & Login with Role Selection
- Waste Posting Interface (with payment gateway)
- Bidding Module (Real-time, anonymous, editable bids)
- Notifications (SMS/email/push)
- Gate Pass Generation (PDF)

- Pickup Proof Upload Interface
- Reporting and Logs for Admin
- API required for integration of mobile app:
Proof of pickups