

PARLIAMENT OF INDIA

IN THE CHAIR



SHRI SANJAY KUMAR JHUNJHUNWALA

12-01-2026

00:40:04

# Rajya Sabha Talk Time Management System

Digital Governance & Legislative Precision

Comprehensive Solution for House Proceedings, Time Allocation & Record Management.

DESIGNED & DEVELOPED BY BIHAR COMMUNICATIONS PVT LTD

## USER INTERFACE

# Central Command Center

The system is anchored by a high-fidelity dashboard designed for rapid access to critical parliamentary functions. The interface is touch-optimized, allowing operators to switch between session modes instantly without navigating complex menus.

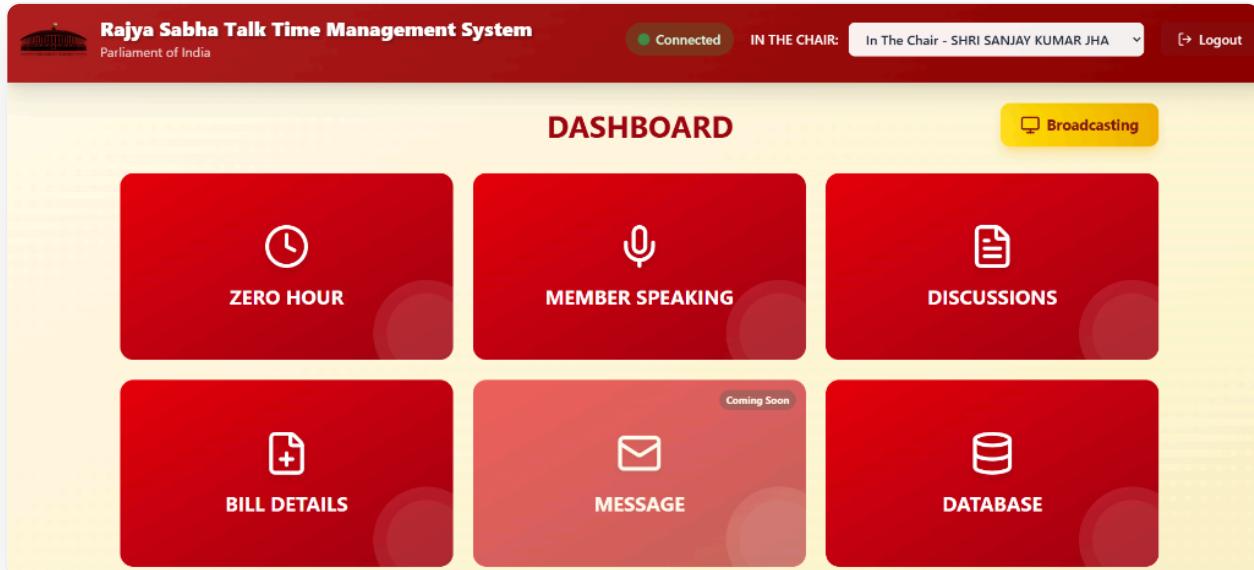


Figure 1: The Main Dashboard featuring specialized modules for Zero Hour, Discussions, and Reporting.

## Modular Design

Each legislative function is encapsulated in its own module. 'Zero Hour' handles short duration interventions, while 'Discussions' manages complex party-allocated time for Bills.

## Live Status Indicators

The dashboard provides real-time feedback on connection status ("Connected"), active Chairperson functionality, and current broadcast state.

# Matters Raised with Permission

Zero Hour requires precise time management to accommodate maximum submissions. The system offers a dedicated countdown interface that ensures speakers adhere to strict 3-minute time limits.

### MATTERS RAISED WITH THE PERMISSION OF CHAIR



**SHRI C. SADANANDAN MASTER**  
श्री सि. सदानन्दन मास्टर  
**NOM**  
**00:02:57**

Time Allotted	Spoken	Remaining
00:03:00	00:00:03	00:02:57

**IN THE CHAIR: SHRI SANJAY KUMAR JHA**

Figure 2: The Broadcast View shows the speaker's details and a high-visibility countdown timer.

## Key Features

- ✓ **Identity Integration:** Instantly pulls member details including Name (Hindi/English), Constituency, and Photo from the secure database.
- ✓ **Visual Alerts:** The timer changes color (Green → Orange → Red) to visually signal the end of allotted time to the House.
- ✓ **Seat Number Display:** Large, clear display of seat numbers facilitates easy identification for the Chair and the Press.

# Complex Bill Discussions

Unlike standard interventions, Legislative Bills require time allocation based on party strength. The 'Discussions' module is built to handle this complexity automatically.

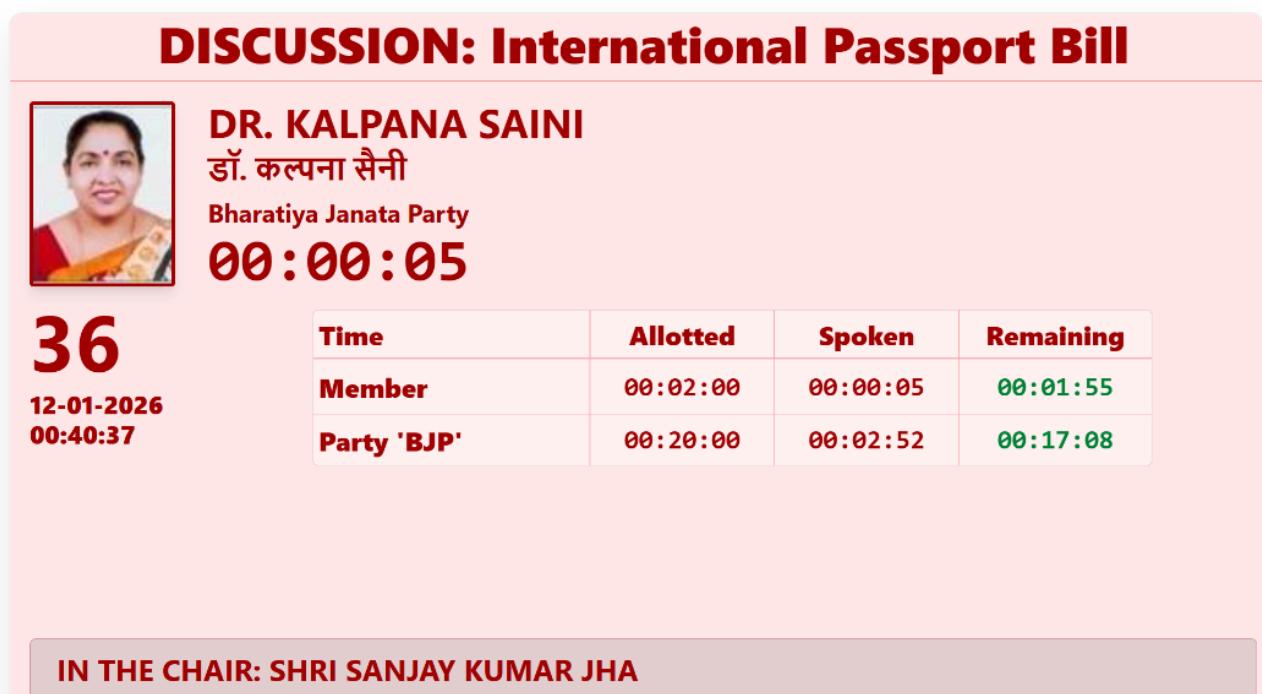


Figure 3: Active Bill Discussion showing Member usage vs Party Allocation.

## Dynamic Calculations

The system automatically subtracts the current speaker's time from their respective Party's total allotted time. This ensures the Whip knows exactly how much time remains for subsequent speakers.

## Dual-Timer System

The display simultaneously tracks two critical metrics: 1. **Spoken Time:** How long the current member has been speaking. 2. **Remaining Party Time:** The aggregate time left for the party.

# Detailed Party Allocation

Transparency is paramount. The system allows operators to view and edit detailed breakdowns of time consumption for every party involved in a Bill.

**International Passport Bill**

Party	Allocated	Consumed	Remaining
<b>BJP</b> 5 members	0h 20m	0h 3m	0h 17m
↳ SHRI SURENDRA SINGH NAGAR (Seat 21)	0h 3m	0h 2m	0h 1m
↳ DR. AJEET MADHAVRAO GOPCHADE (Seat 39)	0h 2m	0h 0m	0h 2m
↳ DR. KALPANA SAINI (Seat 36)	0h 2m	0h 0m	0h 2m
↳ MS. INDU BALA GOSWAMI (Seat 26)	0h 4m	0h 0m	0h 4m
↳ SHRI JAGAT PRAKASH NADDA (Seat 1)	0h 5m	0h 0m	0h 5m
<b>INC</b> 3 members	0h 13m	0h 4m	0h 9m
↳ SHRI MALLIKARJUN KHARGE (Seat 207)	0h 3m	0h 4m	-0h 1m
↳ SHRI PRAMOD TIWARI (Seat 205)	0h 3m	0h 0m	0h 3m
↳ SHRI RANDEEP SINGH SURJEWALA (Seat 223)	0h 2m	0h 0m	0h 2m

Figure 4: Detailed Breakdown of Allocated vs Consumed time per Party and Member.

- ✓ **Granular Tracking:** View individual consumption for every member who spoke on the bill.
- ✓ **Instant Adjustments:** The Table allows for corrections if time is yielded or transferred between members.
- ✓ **Print Controls:** One-click generation of PDF reports for the Table Office (as seen in the 'Print' button top right).

## PRESIDING OFFICER

# In The Chair

The dignity of the House is maintained by the Presiding Officer. The system includes a specialized 'Idle Screen' that displays the current Chairperson when no active business is being broadcast.



Figure 5: The "In The Chair" display screen shown during session breaks or transitions.

This module allows for seamless transitions between the Chairman, Deputy Chairman, and Panel of Vice-Chairpersons without disrupting the software flow. The name and designation are updated instantly across all screens.

## SYSTEM ARCHITECTURE

# Technical Specifications

The Rajya Sabha Talk Time Management System is built on a modern, robust technology stack designed for 24/7 reliability and zero-latency performance.

### Frontend Architecture

React.js + Vite for lightning-fast rendering and component-based modularity.

### Backend Logic

Python (Flask) ensuring robust data processing and hardware integration capabilities.

### Real-Time Engine

Socket.io WebSocket protocol for millisecond-latency synchronization between Operator and Screens.

### Data Persistence

SQLite/PostgreSQL transaction-safe database to prevent data loss during power interruptions.

## Rajya Sabha Talk Time Management System

Excellence in Digital Governance

DESIGNED & DEVELOPED BY

**BIHAR COMMUNICATIONS PVT LTD**

[www.biharcom.com](http://www.biharcom.com)

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