

PARLIAMENT OF INDIA

IN THE CHAIR



SHRI SANJAY KUMAR JHA

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.

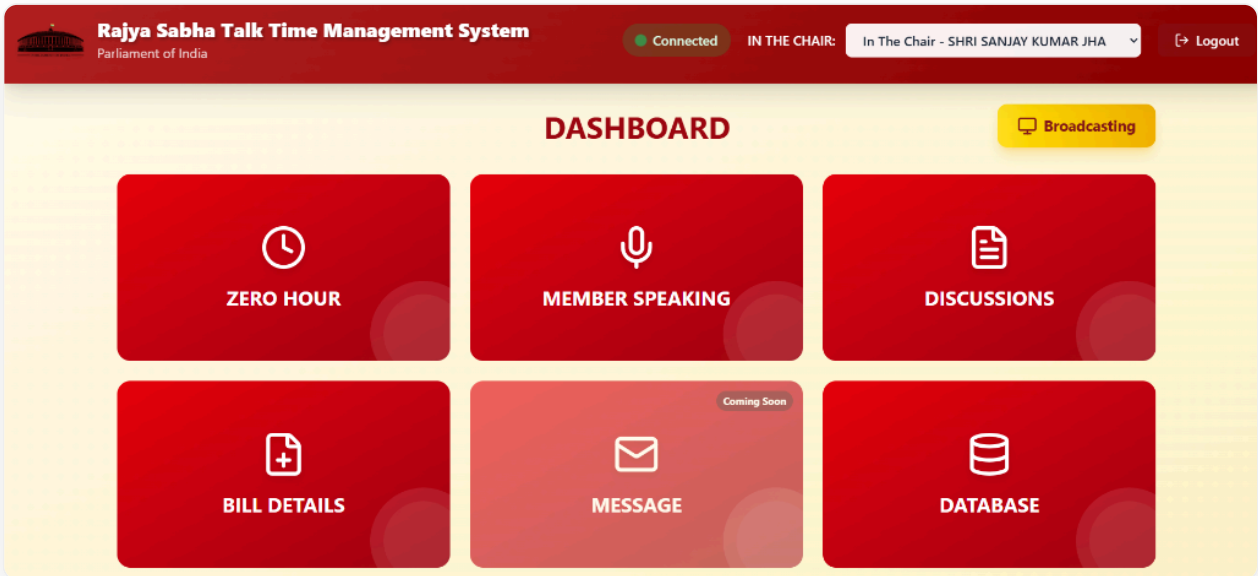


Figure 1: The Main Dashboard featuring specialized modules for Zero Hour, Discussions, and Reporting.

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

89
12-01-2026
00:41:01

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

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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.

DISCUSSION: International Passport Bill

DR. KALPANA SAINI

डॉ. कल्पना सैनी

Bharatiya Janata Party

00:00:05

36

12-01-2026

00:40:37

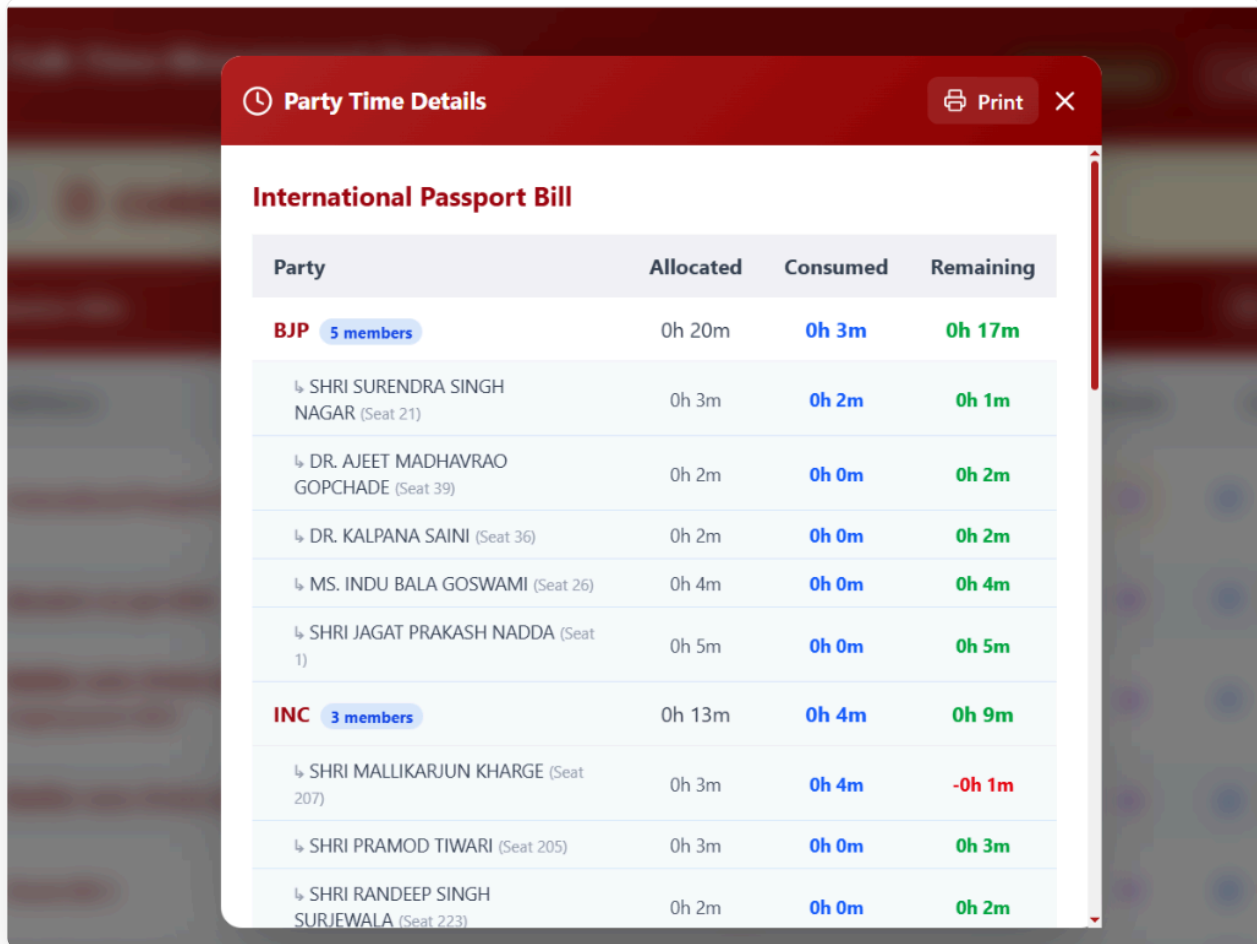
Time	Allotted	Spoken	Remaining
Member	00:02:00	00:00:05	00:01:55
Party 'BJP'	00:20:00	00:02:52	00:17:08

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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.



The screenshot shows a web application window titled "Party Time Details" with a "Print" button. The main content is a table titled "International Passport Bill". The table has four columns: "Party", "Allocated", "Consumed", and "Remaining". It lists time consumption for two parties: BJP (5 members) and INC (3 members), along with individual members and their respective allocated, consumed, and remaining time.

Party	Allocated	Consumed	Remaining
BJP 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
INC 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.

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

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