General Election Management System (GEMS)

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General Election Management System

GEMS - the interactive SMS and Web based Election Management System has been developed for monitoring the entire election process smoothly. This information system facilitates better communication between the State Election Commission and the district and booth level officials.

The software is meant for use by the Officials of Election Commission and its subordinate offices. This Application ensures the Election commission for smooth handling of the election process and better and effective coordination with the Election Officials. The Software covers the entire process of the election, i.e from Nomination Phase to the winning candidate declaration. It is highly secured, audited and certified by KPMG and tested thoroughly for preventing of hacking or any kind of unauthorized access. This is a role based system where authorization and preferences are assigned to the roles defined.

The user level can be defined as follows:

- **State Level users**
  - System Administrator (State Election Commissioner)
  - Administrative Assistants
  - State Users
- **District Level Users**
  - District Level Administrators (District Magistrate)
  - District Users

- **Sub-Division Level Users**
- **Block Level Users**
- **Booth Level Users**

Some primary features of the Application Software:

- This application offers highest level of data security. Only the System Administrator can authorize users to view/edit the entire data into the system as per the predefined roles but the rest of the users have only access to data for their respective jurisdiction.
- This system covers the 4 phases of election process: Nomination Phase, DC/RC phase, Poll day Phase and Counting Phase.

The Nomination Phase:

- **Nomination Entry:** Nomination detail can be entered from the office of the Returning Officer on the day of nomination. Returning Officer can view, edit and approve the entered data on the same day. Various reports including Form 3 and Form 4 can be obtained from the software.
- **Upload Declaration:** The Returning Officer can upload Declaration/Affidavit given by the Candidates in the System. The Declaration can be viewed by the authorized user.
- **Cancellation:** The cancellation of Nomination can be done online. Returning Officer will approve the list of canceled candidates. The list of canceled candidates and validly nominated candidates can be viewed online.
- **Withdrawal:** The withdrawal of Nomination can be done online. Returning Officer will approve the list of withdrawn candidates. The list of withdrawn candidates and contesting candidates can be obtained from the Software. Draft Form 7 can be prepared.

Different reports like final list of Contesting Candidates list can also be generated.

- **Distribution Center/ Receiving Center (DC/RC) Phase:** Activities in the DC/RC phase is mainly SMS based. However for any extreme situation (viz. mobile shadow zones in remote areas) the system can run in parallel through online System.
- **Registration of Polling Party:** As the de-codification of Polling Parties is done at the DC, Presiding Officer can register their Polling Station by sending defined SMS. Detailed reports of Polling Party reporting at DC can be obtained through the Software.
- **Safe Arrival Report:** Safe Arrival Report can be obtained from Presiding Officer by sending defined SMS. Booth-wise detail report regarding Safe Arrival of Polling Parties can be obtained through the software.
- **Polling Party Arrival at RC:** After conducting the Election, Polling Parties hand over the Polling Materials at RC. The Officer on Duty at RC can enter Safe Arrival Report of Polling Party. A detail report can be viewed remotely by the authorized user.

Poll Day Phase:

Poll Day Phase is mainly SMS based. Presiding Officers sends defined SMS for delivering various Reports in pre-defined coded language.

- Various reports viz., Poll Start, Two Hourly Poll Progress (Voters Turn Out and Voters in Queue) , Poll Closed etc. can be obtained through the Software.
- Another unique feature of the Software is Problems Entry. Polling Party can send SMS for any kind of help at the Polling Station level. A list of codes specified for various

problems entry viz. booth capture, law and order, infrastructural Problem, malfunctioning of EVMs, etc. can be entered through SMS into the system. Sector Officer, Returning Officer, District Election Officer and even State Election Commissioner also can directly interact with the Polling Personnel to enquire about the Problem. This will help to immediate solution of the problem faced by Polling Parties.

- Once the problem is solved, Polling Personnel or Sector Officer can send a SMS that the Problem is Solved and it is updated automatically in the system.

Counting Phase:

In the counting phase Counting Centers and Halls are registered and a unique id for each Counting Hall and Centre is generated through the system. A list of specific User created for Counting Process.

- **Voters on Election Duty (ED):** ED vote results are entered from the Returning Officer's Desk directly to the System.
- **Results from Counting Tables:** After completion of counting, Polling Station wise Results can either be entered into the system from the Counting Halls.
- **Compilation of Counting Results:** The software will compile the results and results can be viewed in no time. The software will show Leading and Trailing name of the Candidates with margin till completion of the counting. The software will automatically show the final results as and when the result of all the Polling Stations under the jurisdiction of the Constituency is entered. Various reports such as the final position of votes polled by Contesting Candidates, issue of Certificates of Election may also be obtained through this Software.

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