

# Smart Rourkela & Swachh Rourkela

## Mobile Apps For Better Living In The City

A Smart City Plan employs ICT solutions in an urban development programme to manage the city's assets. Rourkela has been shortlisted as one of the Smart Cities under Government of India's Smart City Mission. This article highlights two mobile applications, one primarily G2C and the other G2G launched by Rourkela Municipal Corporation towards achieving objectives of the Smart City mission.



**DR. R.N. BEHERA**  
Sr. Technical Director  
mbehera@nic.in

Edited by  
**PRASHANT BELWARIAR**

**R**ourkela, the steel city of Odisha, has been shortlisted as one of the Smart Cities under Government of India's Smart City Mission. In its preparedness towards becoming a smart city, the Rourkela Municipal Corporation (RMC) of Odisha has launched two mobile applications; Smart Rourkela and Swachh Rourkela.

### SMART ROURKELA

The Smart Rourkela Mobile App is an m-Governance application with 'Smart' Solutionsto keep theRourkela city clean and establishing a sustainable environment. The city provides many core infrastructures anda decent quality of life to its citizens. Smart Rourkela allowsa citizen to lodge grievances and subsequently monitortheir status. The App is also integrated with the Grievance Monitoring Application of RMC portal and facilitates the citizens to getits important information.

The Smart Rourkela MobileApp features the following:

- Citizen's corner forComplaint / Grievance lodging, Helpline Numbers, e-Mail ID of important officials of RMC
- Lodging ofgrievance andtracking its status
- Upload photographs or documents
- Through the Apps Helpline facil-

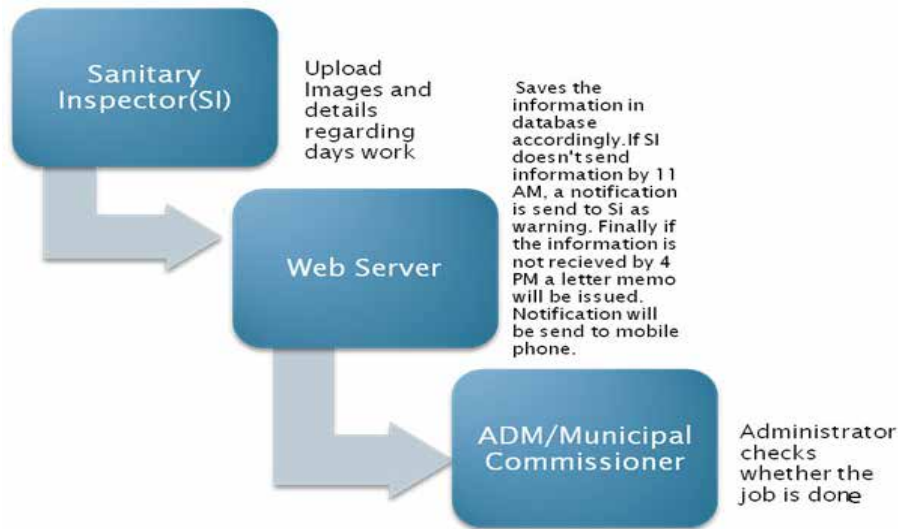


“ It gives meimmense pleasure to express that the Mobile APPs 'Smart Rourkela' and 'Swachh Rourkela' are the real m-Governance solutions for Smart City Rourkela. It helps the Municipal Administration to reach citizens and make the city clean ”

**SUDARSHAN CHAKRAVARTY, IAS**  
Adm & Chairman, RMC

ity, a citizen can easilyreachthe nearest Police Station, Hospitals, avail Ambulance, emergency electricity, find the Blood banks and get necessary Tourist Information

- City News, Events & Notices facilitates to get News, track Events, Notices and Circulars
- Maps facilitate route and path to all the locations in Rourkela
- To find Government Offices, Tourist attraction sites, Local Banks, ATMs etc
- Watch weather displays, local weather conditions



- Tour Rourkela facilitates a general tour e-guide of Rourkela
- Beautify RMC- Garbage found dumped at any of the places can be informed to the authority by taking photograph of the same and uploading the image to reach RMC. This enables the authorities to take necessary immediate actions for removing the same and make the city clean

**User Groups**

The important user groups of the App are the citizens of Rourkela, Rourkela Municipal Corporation and the tourist visitors. The App is Android based and can be accessed any time, anywhere.



User Interface of Mobile App

**SWACHH ROURKELA**

Swachh Rourkela App has been developed for expediting and streamlining the garbage collection and management of the city, which are the essential aspects of Smart City Rourkela. This G2G service helps to make it easier and faster for the sanitary officers involved in garbage management to provide their work status electronically anywhere, anytime. The App also allows the Administrator or Commissioner to monitor the status of garbage collection.

Using this App, the RMC officials (sanitary officers) associated with garbage cleaning operations can send reports to the RMC Administrator and Commissioner regarding daily cleaning position of garbage collection sites. They can click and upload Geo-tagged and time stamped photographs of garbage collection sites, before and after the cleaning activity. Situations such as vehicle breakdown, strike, accident etc., in which the garbage collection gets interrupted, are reported through this App.

The App is beneficial for the following:

- Garbage clearance with images,

complaints and encroachment can be processed for decision taking

- Regular garbage management by the RMC
- The sanitary Officers along with citizens of Rourkela can take active part in the management of garbage and encroachment
- The system helps in capturing the exact location or area of the garbage dump
- Suggestions can be lodged through the App

The RMC officials can access the Mobile App 24x7 using Android based smart phones anytime, anywhere.

**Technology Used**

**Operating System:** Android Platform

**Integrated Development Environment:** Eclipse IDE

**Webpage Development:** HTML, CSS, Java Script

**Programming Languages:** JAVA

**Database:** PostgreSQL

**Scalability and Scope of Replication**

The portals have been deployed in Meghraj Cloud. Proper status monitoring mechanism is provided to the citizens to enhance the App. The process of hosting in Google App Store and National Mobile App Store is underway. The system can be replicated for other States for similar types of application. It has been developed for Android OS and the process is on for Windows OS and IOS development.

**For further information, please contact:**

**DR. R.N. BEHERA**  
*Sr. Technical Director*  
 NIC Odisha State Centre  
 Bhubaneswar- 751001, Odisha  
 Email: rnbehera@nic.in  
 Phone: 09437164100