No: 796 /RM & DD.  

To,

The Additional Chief Secretary  
Education Department  
Government of Sikkim  
Gangtok

Subject: Identified problems faced by RDD for Smart India Hackathon, 2020.

Sir,

With reference to letter No. GOS/Edn./IT/2019/20 dated: 12/11/2019, regarding Identification of Governance related challenges faced by our department which could be solve by using digital technology (Software), please find herewith the list of problems identified by RDD for Smart India Hackathon, 2020.

Thanking you.

Yours faithfully,

JD (IT)  
Joint Secretary (Adm)  
Rural Development Department

Enclosed: As above.
## SOFTWARE CHALLENGES BY RURAL DEVELOPMENT

<table>
<thead>
<tr>
<th>Title of Project</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>MIS for Rural Development Housing Scheme like Garib Awas Yojana along with GIS application</strong></td>
<td>There is no monitoring system to monitor the progress of construction of Houses under Rural Housing schemes. The HeadOffice could not be able to generate Real Time Basis Statistical Report of the present construction. Develop web portal along with mobile app to capture the progress report of Beneficiary's House that are in different stages during construction. The 5 stages can be: Stage 1 (Beneficiaries finalized), Stage 2 (Plinth level completed), Stage 3 (Roof Completed), Stage 4 (House Completed), Stage 5 (House handed over the Beneficiaries). The Home Page should contain a Dashboard showing the no of Houses under 5 stages Districtwise, then Block when clicked on District, then GramPanchayatwise when clicked on Block and finally the list of Beneficiaries village wise. When we click on any Beneficiaries, it should show the photographs of present stage of House along with its details of Beneficiaries (Householdno, Head of Household, Age, Gender, Totalno of Family members). The mobile app will be use to capture the photo of the present Stage of the House along with its lat and long. A module consist of Geo Map just like google map where the particular house can be geotagged (this module is only available after login process). The Dashboard can be used for public.</td>
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<td><strong>Single widow monitoring of all RD welfare schemes</strong></td>
<td>There are multiple welfare schemes run by different cell under the department. At time this welfare schemes are meant for target beneficiaries and it is difficult to monitor if the intended welfare schemes has reached the right household. It is also pertinent to noted that the duplicity of such schemes often go unnoticed. Develop a app that will generated a unique beneficiaries id so that all schemes, benefits provided to the beneficiary is tagged with the unique id and is made traceable and monitored. This will help in creating a centralized database of the beneficiaries and will help in the planning process for any such benefits in the near future.</td>
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<tr>
<td><strong>Transparency and safeguard measures in HR management</strong></td>
<td>Many administrative and financial issues like increment orders, changes in rate of certain benefits needed to be communicated to the employees.</td>
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<tr>
<td>What we want</td>
<td>An application to monitor all file movement of every employee, timely information, intimation to the employees through text messages, emails. All such employees files must be traceable online so that the employees do not have to run after file and also a automated SMS, email system, so that timely information is communicated to the employees.</td>
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<tr>
<td>Challenges</td>
<td>Internet connectivity, SMS will be the most reliable means of communication but might be expensive. Need to explore a way to reduce the SMS expenses or make it optional with a reasonable payment system.</td>
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### 4 Title of Project
**Centralized Attendance Monitoring System of Employees of RMDD**

**Problem**
It is difficult for head office to monitor the attendance, working hours of employees from all 40+ offices spread across states. The irregularity of staff highly impacts the performance of the programs at the grass root level. Hence it is important to get a first hand, real time attendance of every employees on a daily basis at head office.

**What we want**
Develop an application that will record attendance on a real time basis at the block, district office on a periodic basis and generate Statistical report using the existing Biometric device. A Dashboard where Statistical Data can be shown like total no of Employees present, absent Districtwise, Blockwise, officewise etc.

**Challenges**
Internet accessibility may not be available at every block offices.

### 5 Title of Project
**File Tracking System in the department**

**Problem**
Often the file tracking becomes very difficult since it is done manually. There is a increased in number of filed being moved every day, there are also many instances of file being misplaced.

**What we want**
An application, preferably which work offline which should track the movement of file within the office. Once the file if created, it should be entered in the app and the movement from one place to other should be recorded with date and time.