Dear Sir,

Permit to Work system is being implemented and followed in our group and it is one of the

Statutory requirements. Presently we are using Manual Work permit system in our group

excluding DPM &amp; ARL Units. Both the units are using Online work permit system (Desktop

based) for the past 5 years with limited benefits. We propose to introduce Online Work

permit system (Through mobile app) along with Geo fencing control to all our group units

considering the additional benefits mentioned below.

# **Mobile App Development – Scope of works**



* UI design integration.
* Allow users to see their permit status.
* Allow responsible persons to approve the permits.
* Create/Edit permits through mobile app as well.
* Show the warning notification message to PA, when there is an expired permit in their account.
* When the PA raised permits has expired, restricts to create a new until they complete/extended the permit.
* Send mobile notifications to the responsible persons in all action in the order.  
  1. Creating permit  
  2. Permit approval  
  3. Safety Remarks  
  4. AVI  
  5. Download Permit Copy in PDF format.
* Capture the screens and upload the images through mobile app in Safety remarks module.
* Setup the **latitude and longitude** ranges for each equipment tags.
* Allow PA to raise the permits and IA/Isolators to approve the permits within the given latitude and longitudes range.
* Biometric Authentication
* Unit testing (QA).

# **Cloud Setup & Mobile app registration in Play store – Scope of work**



* Create a new cloud server account (Hostinger) and launch the desktop and mobile app.   
  Configurations like
  + 4-8 vCPU cores
  + 16 GB RAM
  + 200 GB NVMe disk space
  + 16 TB bandwidth
  + Load Balancer
  + Auto Scaling
  + SMTP Setup
  + Push Notification
  + Task Scheduler
* Creating a New Play Store Account. **\* Included Work:** Assisting with the sign-up process, setting up payment details, and completing the developer profile.
* Setup the Mobile App and Get Approval from Google.
* Preparing assets (screenshots, descriptions, icons)
* App bundle (.apk) upload
* Setting up policies (privacy, content rating, etc.)
* Resolving any rejection issues from Google  
  This can be time-consuming, especially if there are rejections or policy issues.
* Maintain the Play Store Account
* App version updates (minor, infrequent)
* Monitoring for Google policy compliance
* Handling notices from Google.
* Preparing assets (screenshots, descriptions, icons)
* Create an instance for dev and prod for desktop and mobile app.
* Unit Testing (QA)

# **Extension of Online Permit System to 15 plants**



1. Setup the permit application in all units and other related software’s.
2. Collect and setup to the following master data in all units
   1. Users
   2. Contractors
   3. Departments
   4. Sections
   5. Zones
   6. Isolation type
   7. Isolation Descriptions
   8. SOP/WI
   9. Checklists
   10. Mobile app access settings
   11. Latitude and Longitude setup for each equipment tags.
3. Execute the unit testing in all units.
4. Provide KT about the super admin features to the responsible person.
5. Monthly Backup
6. Monitor server performance and clear the tmp files. Its makes to improve application performance.

# **DCBL Scope of works**



1. Gathering requirements **one-to-one(or facility)**  **from each plant** is a targeted and valuable approach—especially when different plants may have unique workflows, systems, or priorities.
2. Cost includes the cost of development, testing, integration, installation, training, **45days** support after Go-Live.
3. There shall not be any limitation of usage of the application. We will install the applications at N No. of Desktops and Mobiles. No further cost will not be charged.
4. During the Support period of **45days**, small new developments shall be taken up without charging any extra cost. However, major changes / developments
5. We will be charged additional works as per mutually agreed.
6. Please take care of our travel expenses, Lodging & boarding of our **2 engineers** for any visits to the plant from our home town(**Madurai-Tamil Nadu <-> DCBL**). This will help us ensure that we can provide the on-site support and collaboration necessary for the project's success.

We have enquired **M/s Pitinfotech, Madurai** who has developed the Online work permit for DPM & ARL units and got the budgetary offer for the above-mentioned system.

The details are given below:

|  |  |  |
| --- | --- | --- |
| **S.No** | **Description of the Job** | **Cost in (Rs.)** |
| 1 | Mobile App Development | 1,90,000 |
| 2 | Cloud & Play Store Setup (Mobile App) | 1,75,000 |
| 3 | Setup of Work Permit System for 15 units of desktop & mobile app. (Rs.130,000/- per plant) | 19,50,000 |
|  | **Total** | **23,15,000.00** |
| **Additional requirement** | | |
| 4 | 2 Service Engineers' cost per day during any plant visit. | 3,500 |
| 5 | Transportation from Madurai, TN, Boarding & Lodging | DCBL scope |

Considering the above benefits, we request your kind approval to proceed for Online work permit system through Mobile App with Geo fencing.

**Benefits of Online work permit system:**

1. **Real-Time Status Tracking:** Easy tracking of number of work permits taken per section / Department and monitor   
   permit progress at every stage.
2. **Reduced Human Errors**: Minimizes manual data entry mistakes and miscommunication
3. **Efficient Reporting**: Generates accurate reports for audits and inspections.
4. **Seamless Collaboration**: Integrated systems enable departments to work together efficiently.
5. **Instant Notifications**: Alerts and updates keep all stakeholders informed.
6. **Elimination of Paper-Based Delays**: Digital submissions ensure quick document verification.
7. **Improved Compliance**: Ensures that all safety and regulatory guidelines are met.
8. **Workflow Automation**: Ensures a structured approval process.
9. **Risk Assessment & Mitigation**: Identifies potential hazards before work begins.
10. **Real-Time Access Control**: Ensures that only authorized personnel receive permits.
11. **Compliance Tracking**: Maintains audit trails for inspections and safety checks.
12. **Centralized Safety Documentation**: Stores and retrieves all necessary documents in one place.
13. **Automated Document Verification**: AI-powered tools check for missing or incorrect information.
14. **Data Analytics & Reporting**: Tracks key metrics and performance indicators.