[서울시]청렴건설행정시스템_02차시 성우 스크립트_180206

| 02_01 | In-depth Explanation on One-PMIS |
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| 02_02 | This time, I will elaborate on the SMG's One-PMIS. One-PMIS is an online progress |
| | management system designed for the efficient management of construction |
| | projects. |
| 02_03_01 | One-PMIS workflow |
| 02_03_02 | First, let's learn the One-PMIS workflow, which is divided into a total of 7 stages. |
| | The table on the slide shows the types of work involved in each stage, the system |
| | users, and the time of system utilization. In stage 1, the system users and the |
| | project information (e.g. name, down payments, and scheduled completion date) |
| | are registered on One-PMIS as soon as a construction contract is signed. In stage |
| | 2, contractor registers SMG approved progress schedule on One-PMIS upon |
| | submission of project commencement report. In stage 3, the contractor carries out |
| | project management through One-PMIS and submits progress reports regularly - |
| | i.e. daily, weekly and monthly. |
| | I would like to point out the fact that Korea has already made it obligatory for |
| 02_03_03 | contractors to make regular offline progress reports on their construction projects |
| 02_03_03 | through enactment of legislation. The SMG plans to establish a system in which |
| | construction progress reports are made through One-PMIS. |
| | In stage 4, the SMG issues official work directives (i.e. project work orders) online |
| | through One-PMIS. These instructions are based on action reports submitted by |
| | contractors and supervisors. In stage 5, system users can register and search |
| | through a variety of documents generated in the project implementation process. |
| | In stage 6, SMG officials evaluate contractor's project performance at three points |
| 02_03_04 | of construction process (upon 30%, 60% and 95% completion). One-PMIS |
| | accumulates all the data so that the system users and policy makers can refer to |
| | them. In stage 7, the final stage, the contractor registers as-built drawings on One- |
| | PMIS following the final inspection. The SMG makes the final progress payment to |
| | the contractor after all the drawings have been validated. Next, let's check the main |
| | menus and categories of One-PMIS, one by one. |
| 02_04_01 | Description of Main Menus and Categories of One-PMIS |
| 02_04_02 | One-PMIS consists of a total of 7 menus and 24 categories. |
| 02_04_03 | First, Project Overview is composed of the four categories of project status, |
| | contract status, organization and web camera. |

| 02_04_04 | In the category of Project Status, the overview of SMG's public construction |
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| | projects is provided. Most notably, each project site is marked on a digital map. All |
| | provided information can be updated or modified. |
| 02_04_05 | In the Contract Status category, SMG monitors and manages construction contracts |
| | and payment details such as contract amount, the contract period, and the |
| | subcontract status. |
| 02_04_06 | In addition, through links to various other systems, one can even check the |
| | contractor's Subcontract execution and payment status. |
| | Next, let's look into the Organization. This is the menu designed to carry out the |
| 02 04 07 | integrated management of all project participants registered on One-PMIS. One |
| 02_04_07 | ordering body, supervisor and contractor can be designated as the responsible |
| | parties as shown in above the table. |
| | Next, Web Camera. The SMG has installed, on average, two web cameras at each |
| 02.04.00 | construction site. Through the web cameras, images of each project site can be |
| 02_04_08 | viewed in real time, which saves the time required to travel and inspect |
| | construction sites. |
| | Each web camera is omni-directional in addition to having zoom-in and zoom-out |
| 02.04.00 | features. The high-resolution images transmitted by the web cameras increase the |
| 02_04_09 | transparency of construction site management, while reducing the eye strain of |
| | monitoring officials. |
| 02.05.01 | Next, let's move on to Progress Management, which consists of the four categories |
| 02_05_01 | of work schedule, progress rate, construction photos, and resource management. |
| | Contractor uploads and registers work schedule on the Work Schedule category. |
| 02_05_02 | This process takes place immediately after submitting their project commencement |
| | report |
| | The Progress Rate is displayed with visual effects, in one of the three categories of |
| 02_05_03 | 'On-time, Slightly delayed, and Delayed', according to the progress of each work |
| 02_03_03 | item specified in the progress schedule. This system allows for fast easy monitoring |
| | of the project progress status. |
| | Next, Progress Photos for each work process. The contractor must register progress |
| | photos when submitting the progress reports. Through the photos, the project |
| 02 05 04 | client (ordering body) can check the project progress through visual evidence. |
| 02_05_04 | Therefore, the contractor must register recent photos. Most notably, the photos |
| | uploaded along with weekly progress reports are disclosed to citizens through |
| | Construction Allimi. |
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| 02_05_05 | Next, Resource Management. A construction project uses different kinds of |
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| | resources including manpower, equipment and materials. The SMG's One-PMIS |
| | manages the resource input status separately according to the three categories to |
| | produce more significant data and enable system users to monitor resources |
| | allocated to a particular project more systematically. |
| 02_06_01 | The next menu is Progress Reporting, which consists of the four categories of daily |
| | work report, weekly progress report, monthly progress report, and delay report. |
| | First, Progress Reporting. Following the contract execution, the contractor must |
| 02.06.02 | submit to the SMG the commencement report, and register the Project |
| 02_06_02 | Implementation Schedule. During construction, the contractor must submit daily, |
| | weekly and monthly reports on the progress of each process. |
| | The SMG has institutionalized an electronic approval system that imposes legal |
| | obligations on the approval of the progress report of each process. In addition, |
| 02.06.02 | once a report is submitted to the SMG, neither the contractor nor the supervisor |
| 02_06_03 | can modify its contents. According to the SMG's experience, the electronic approval |
| | system implemented through One-PMIS has increased the credibility of project |
| | reports. |
| | The slide shows the SMG's standard template of daily work reports that the |
| | contactor must submit through One-PMIS. As you can see, the report includes |
| | quantitative information that indicates status of project components which can be |
| 02_06_04 | compared with previous and targeted progress rate. The SMG's daily, weekly, and |
| | monthly reports registered on One-PMIS use the same format, with the exception |
| | of timeframes. The SMG automatically transmits weekly reports to Construction |
| | Allimi to disclose them to the general public. |
| 02_07_01 | Next, the Safety Management menu consists of the three categories of safety |
| 02_07_01 | inspection, construction machinery safety check and safety manual. |
| | First, Safety inspection. In the field of construction, Korea has enacted various laws |
| | on the obligatory implementation of safety checks in a number of areas. In |
| 02_07_02 | addition, as separate regulations exist, contractors and supervisors need to |
| | implement prescribed safety checks which may vary in responsible actors, |
| | frequency and methods. |
| 02_07_03 | The contractor and the supervisor must carry out safety checks in accordance with |
| | the law. According to the results of safety checks, the client can take appropriate |
| | measures, ranging from orders to taking corrective actions to the imposition of |
| | penalties on the contractor and the supervisor that should be held accountable. |
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| 02_07_04 | The safety management system implemented through One-PMIS, improves the |
| | efficiency of safety management. It also enables important data of various projects |
| | to be stored in one location, and the data can be used for the SMG's future safety |
| | management and relevant policy development. |
| 02_07_05 | Next, Construction Machinery Safety Check. During the past few years, construction |
| | sites in Korea have become larger and more complex contributing to an increase in |
| | the accident rate. As a result, the SMG has paid a lot of attention to enhancing the |
| | safety management of construction machinery used in various construction sites. |
| | In such context, the SMG wanted to secure more efficient and systematic safety |
| 02_07_06 | management on construction machinery used in construction sites, and thus added |
| | 'construction machinery safety check' feature in One-PMIS. |
| | To that end, the SMG's One-PMIS is building an online database useful for the |
| 02 07 07 | management of key construction machinery. Through the database, one can |
| 02_07_07 | identify the utilization pattern, key weaknesses and check points for each type of |
| | construction machinery. |
| | Next, Safety Manuals. Through One-PMIS, many different kinds of safety manuals |
| 02_07_08 | are registered, and the SMG shares a number of important safety-related data with |
| | contractors and supervisors efficiently. |
| 02.00.01 | Next, the Project Document Management menu, which is composed of the three |
| 02_08_01 | categories of electronic approval, document management and as-built drawing. |
| | First, Electronic Approval is a feature that makes One-PMIS an attractive and |
| | powerful tool. The processing of work directives on One-PMIS is linked to the |
| | SMG's internal administrative system. The SMG drafts work directives about |
| 02_08_02 | construction projects on One-PMIS, and electronic approval is made through the |
| | SMG's administrative network. This makes the documents authorized as 'official |
| | documents.' |
| | Next, Document Management. One-PMIS provides sufficient storage space on its |
| | database so that users can store documents by project. In addition, it provides an |
| 02_08_03 | easy information search feature so that stakeholders can share documents more |
| | efficiently. |
| 02_08_04 | Next, As-built Drawings. All as-built drawings are stored and managed on One- |
| | PMIS, and therefore the SMG can prevent the loss of as-built drawings, and |
| | implement effective maintenance of various facilities. |
| 02_08_05 | Following the SMG's final inspection, the contractor must register the as-built |
| | drawings on One-PMIS. The SMG checks the as-built drawings registered on One- |
| | drawings on one rivits. The sivio checks the as-built drawings registered off one- |

| | PMIS and then makes the final payment to the contractor. |
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| | Next, History & Record Management, which is divided into the three categories of |
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| | performance evaluation, accident history, and penalty management. |
| 02_09_02 | First, Performance Evaluation. With the feature, the SMG evaluates performance of |
| | designers, contractors, and supervisors, which are companies and individuals in |
| | charge, and accumulates the evaluation data on One-PMIS. Evaluators are |
| | requested to answer multiple-choice questions and make statements. The |
| | evaluation is made three times for each project at the progress rates of 30%, 60% |
| | and 95%. |
| | Furthermore, the evaluation records are stored permanently, and the data can be |
| | used as reference material for the users' policy establishment, which makes One- |
| 02_09_03 | PMIS is a valuable asset. The SMG also uses the evaluation data when selecting |
| 02_09_03 | competitive companies and engineers for future projects. Through the evaluation |
| | system, the SMG has motivated all stakeholders in construction projects to pay |
| | closer attention to their work quality throughout the entire process. |
| | Next, Accident History Management. On the occasion of two construction |
| 02_09_04 | accidents that happened in July 2013, the SMG established an accident history |
| | management system on One-PMIS. |
| | When an accident occurs in a construction site, the contractor must report the |
| | accident to the SMG immediately, and conduct an investigation to identify the |
| 02.00.05 | cause of the accident and take corrective actions, and register all the details |
| 02_09_05 | concerned on One-PMIS. If the contractor tries to hide the accident without |
| | reporting to it the client, the SMG can impose a penalty on the contractor |
| | according to relevant laws and regulations. |
| 20 | In addition, the SMG SMG cross-checks accident reports and Industrial Accident |
| 02_09_06 | Compensation Insurance to minimize the possibility of an accident cover-up. |
| | This is the actual screen of the Accident History Management on One-PMIS. The |
| 02_09_07 | page contains detailed information about accidents including information on |
| | victims. The accident records registered on One-PMIS are classified by various |
| | factors such as the project size, construction stage, and season. The records |
| | constitute an important database about numerous accident types and cases. The |
| | SMG can use the records as valuable data in the establishment of various policies |
| | and countermeasures. |
| 02_09_08 | Next, Penalty Management. Korea's Construction Technology Promotion Act allows |
| | the client to impose a penalty if the contractor or the supervisor fails to fulfill their |
| | the chefit to impose a penalty if the contractor of the supervisor falls to fulfill their |

| | obligations satisfactorily. Every six months, the SMG notifies the Ministry of Land, |
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| | Infrastructure and Transport of such penalty records. Because such penalty records |
| | can be reviewed and considered in future project bidding and contractor selection |
| | processes, they can impact relevant contractors unfavorably. |
| 02_09_09 | Through One-PMIS, the SMG has been able to manage the penalties it imposes in |
| | a more systematic way. |
| 02.00.10 | Finally, the Search and Notice menu, which consists of the three categories of |
| 02_09_10 | integrated search, notice, and help desk. |
| 02_10 | So far, we have explained how the SMG's One-PMIS is run and used. Through the |
| | system, the SMG has improved its administrative efficiency and convenience. |
| | Around 80% of the information collected by the system is disclosed to citizens |
| | through 'Construction Allimi. 'I hope that through this lesson, you have come to |
| | fully understand what the SMG's One-PMIS is all about. Thank you for your |
| | attention. |