

Proceedings of Workshop on “Road Information and Computerized Project Information System”

Date: 25th August, 2005.

CRRI organized the Workshop on “Road Information System (RIS) and Computerised Project Information System (CPIS)” on 25th August, 2005 in the Council Hall of CRRI in association with National Highways Authority of India NHAI and M/s Consulting Engineering Services Pvt. Ltd. (CES), New Delhi. The Workshop was organized to deliberate on various issues related to the development of software for RIS and CPIS. Shri H.C. Gupta, Member (Admn) NHAI, Chaired the Workshop. Dr. P.K. Nanda, Director CRRI, welcomed Shri Gupta, on behalf of CRRI. He was welcomed by offering a bouquet of flowers to him. While inaugurating the workshop, Chairman mentioned that Road Information and Computerized Project Information Systems being developed by NHAI are new to the country and there is scope for further development and learning. Representatives from the World Bank, M/s. Consulting Engineering Services Pvt. Ltd. New Delhi (CES), Tata Consultancy Services (TCS), Computer Maintenance Corporation (CMC), WIPRO, Border Roads Organisation (BRO) and Central Road Research Institute (CRRI), New Delhi attended the Workshop as delegates. Seventy four participants took part in the deliberations. Presentations were made by Prof. N. Ranganathan (CES), Ms Jyotsna Pabbi (CMC), Shri Rajesh Kumar (TCS), and Shri J. Jeyaseelan (WIPRO)

Presentation on RIS

On behalf of CES, Prof. N. Ranganathan made the presentation on “Road Information System” being developed for National Highways Authority of India. He briefed about various modules such as location Referencing, Asset Management, Pavement Management, Bridge Management, Traffic Management, Accident Management, Toll Management, Document Management, Performance Management, Environment Management, Security and Access Control Query and HDM-4 Integration Systems etc. He also highlighted data collection methodology, system development, system architecture etc. An on-line demo of RIS software module was also presented subsequently. The interlinking of the GIS module with RIS modules was explained separately to underscore the importance of GIS features.

Questions & Clarifications

Shri Vinod Bhan, VP, TCS, questioned about real time updation of database and time frame for data updation Shri Atul Kumar, CGM, NHAI stated that it would require some more time to establish the periodicity to collect the relevant data and NHAI is focusing towards this direction.

Dr. V.K. Sood, Scientist, CRRI enquired regarding time frame for completing the development of software. CES/NHAI replied that it may take another six months for completion.

Dr. Devesh Tiwari, Scientist, CRRI pointed out about incomplete data of roughness and base construction year of pavement in RIS. Starting year of construction is very

important and it should be properly checked before using it as an input to HDM-4. His point was clarified by CES stating that utmost care has been taken for data updation and further information can always be added.

Dr. P.K. Nanda, Director, CRRI questioned about availability of the software for different categories of roads and sharing of the software by other road development agencies. The proposal of sharing the software was agreed to by Shri H.C. Gupta, and Shri Atul Kumar, NHAI. He further stated that the RIS software has the capability of managing the database for all categories of road. RIS is national property and it can be shared by other road development agencies.

Dr. T.S. Reddy Scientists CRRI further added that information should be available to user (field engineer) for its effective utilization. Shri Atul Kumar informed that the system being web-based, structured information will be available to every body depending upon their needs.

Presentation on CPIS

On-line and Real time Computerized Project Information System (CPIS) jointly developed by TCS & CMC was presented by Ms. Jyotsna Pabbi. She mentioned that CPIS was a PC based computerized NHAI head office and field offices for effective management and monitoring for NHDP CPIS has different modules such as pre-construction, Modlue. Construction module, Post Construction Module, GIS Module and interfaces with RIS, Toll Collection System and CISCO IP Phone, CPIS can be used to generate the updated thematic, maps, reports viewing of progress of projects at National and State levels. It has others salient features like timely alert, plot featur5es in the form of hard copy, better monitoring through graphical view of project status and scaleable system with security files. It was also mentioned that in about three month's time the software will be ready for installation.

Questions and Clarifications

Shri B.M. Sharma, Scientist CRRI mentioned that DPR activity, execution disputes details should also be part of CPIS. Shri Atul Kumar explained that DPR is part of pre-construction activity and also it takes a year to complete, however considering that the information will be useful details of each activity involved in DPR and execution disputes related activity will also be taken care of and supplemented in the software.

Presentation by WIPRO

WIPRO made a presentation on independent verification of RIS and CPIS Software. They will verify the requirement of band width, functional testing, performance engineering of the software etc. The software testing would include test strategy, test plan, test case design, default design and defect reporting within a time frame of seven weeks.

Summary by Director CRRI

Director, CRRI appreciated the organizations for their presentations. He mentioned that presentations were very extensive and informative. He expected that the country will benefit from this knowledge based software developed for road and road transport sector. He expressed the desire that the system being developed by the NHAI should be available

to MOSRTH, NRRDA and BRO for upkeep of their respective highway inventory. It will be National waste if these organizations were to develop similar systems for their use separately.

Vote of Thanks

The workshop ended with vote of thanks presented by Dr. V.K. Sood. He mentioned that it is the first ever kind of system in the country. Software will be useful for development of high density Corridors. He thanked all the 74 participants from CES, TCS, CMC, BRO, NHAI, the World Bank and CRRI.

Director, CRRI presented a memento to the Chairman as a token of appreciation.