

Report on 5 Days Project Planning and Management Training at NASA

(From 11th to 15th November 2013)

The IPMD (Infrastructure and Project Monitoring Division) of MOSPI monitors and facilitate the implementation of all Central Sector projects costing Rs 150 Cr. and above. Due to high cost and the technologies involved in the infrastructure projects, the performance of the project depends on how the project manager deals the nitty-gritty of the project stages since the conceptualization to the commissioning of the project. During the project cycle, the role of project managers become very crucial in deciding day to day planning, taking financial decision, providing labour welfare measures and winning the confidence of the local Community/ Leaders. In the complex project scenario, the skill of project manager also requires to be updated by way of providing focused technical inputs and knowledge of latest IT tools including project scheduling and handling software.

The IPMD conducted a training programme for five days on **"Project Planning & Management"** from **11th to 15th November 2013 at NASA, Greater Noida**. The training programme was inaugurated by Secretary, Ministry of Statistics & Programme Implementation. During his inaugural speech, he informed the participants about the management skill & its importance in the implementation of Infrastructure projects and functioning of Ministry of Statistics & Programme Implementation (MOSPI) in general.

While welcoming the participants, Deputy Director General (NASA) emphasized the pre-project planning and project scheduling using computer aided software like MS project 2010. She added that this training programme apart from the theoretical components also includes practical aspect as hands on activities on project management's software i.e., MS Project 2010. The faculties, both from the public and private sectors having vast experience in related field were invited. Hands on activity on project schedule software i.e. MS Project, 2010 was provided to the participants. The list of participants is given in Annexure – 1.

The following important topics were discussed during this training programme:

- a)** Pre-project activities and pre-project feasibility report.
- b)** Concept of project cycle.
- c)** Project monitoring & OCMS
- d)** Application of CPM/PERT/Project planning.
- e)** Land acquisition Act 2013
- f)** Project Risk Management.
- g)** Risk & Challenges in speedy commencement of Natural Gas Supply for last mile consumer connectivity projects.
- h)** Project Financing to PSU.
- i)** Project formulation, Procedure for preparation of proposal.
- j)** Appraisal of project and Preparation of -EFC, PIB Memo.
- k)** Challenges in Planning a complex Infrastructure Project.
- l)** Challenges in Planning & execution of Infrastructure Projects – A case study on Interceptor Sewer Project.
- m)** Project Management-Planning, Scheduling, Monitoring & Execution of Projects by Microsoft Project 2010 etc.
- n)** Study on Project Schedule and Cost Overrun.

Director (IPMD), gave presentation covering concept & Importance of Project Management, Project life cycle, CPM (Critical Path Method), WBS (Work Breakdown Structure), Gantt Chart, PERT(Programme Evaluation & Review Technique), Role of PMO(Project Management Office) and PMO function in providing Training, Software, Standardized policies & procedures for successful execution of Projects. He paid more emphasis on schedule completion of the projects to save time, cost & manpower which could be used otherwise. He discussed in detail the components of Project Management and its Process groups and Knowledge areas covering the various parameters in Project mgmt viz, Integration, scope, time, cost quality, Human Resource, communication, risk, procurement and economic models. He discussed various problems, which are responsible for time and cost overrun and measures to be taken up in advance. He further discussed about various

steps/procedure relating to project formulation, implementation and monitoring to cut short the delays. He also emphasized on the Milestones in the projects to be completed in the time, prioritization of projects with reference to available resources and several other project based interventions. He also stressed on accountability for time and cost overrun and highlighted the concept of Rolling wave planning, Progressive elaboration planning, where the work to be accomplished in near term, planned in detail and future work, planned at higher level of WBS.

Director (IPMD) emphasized on the importance of monitoring the progress of projects by an independent agency like IPMD. He elaborated the working of Online Computerized Monitoring System (OCMS). OCMS has been developed on oracle software with two tier authentication system for timely updating of progress of projects. The Ministry's initiatives to further improve the shared monitoring mechanism through computer software were also discussed.

Director (IPMD) also discussed the "**Land acquisition, Rehabilitation and Resettlement Act 2013**" in detail with the participants. The more emphasis was given on the following points:

- a) Why a New Law?
- b) Why a combined Law?
- c) Scope of Land acquisition, Rehabilitation and Resettlement Act 2013,
- d) Comparison with Land acquisition Act 1894 etc.

Shri Sachin Mathur of PMA Consulting Pvt. Ltd. made a presentation on "Project Risk Management." He discussed the crucial role played by risk-management in dealing with uncertainties by adopting strategically framework that mitigate the adverse impact of risks & potential threats. He elaborated in detail the three key components of Project Risk Management, different types of risk associated in different stages of the projects & advantages associated with risk awareness & understanding by putting in practice the risk management process. This aspect of Project Management will help in ensuring the successful completion of the projects and set good Corporate Governance in organization.

Shri Asim Prasad made a presentation on “Risk and Challenges in last mile consumer connectivity project”. He discussed in the detail and main focus was on Project execution Risk & Challenges, Market Risk & challenges, Operational Risk & Challenges, Risk quantification and how Risk can be controlled /reduced.

The lecture on Project Financing to Public Sector Undertaken was delivered by Shri Praveen Malik. He discussed in detail various topics like source of funds, debt financing as a traditional approach, project financing as a new way to finance projects. The more emphasis was on the long term financing of infrastructure and industrial projects, cash flow of the project. He gave the lecture in depth of financial structure and corporate governance structure to resolve market imperfection and efficiently resolving risk. He was also discussed in detail the assessing Project Risk like Completion Risk, Technology Risk, Raw Material Supply & Pricing Risk, Economic and financial Risk, Political Risk etc.

Shri A.K. Mallick and Shri T.R. Sharma, Engineers India Limited (EIL) delivered lectures on Challenges in Planning a Complex Infrastructure Project. Shri Mallick discussed the Planning, challenges and best practices followed in project management. A case study on Interceptor Sewer Project was also discussed. During the completion of the projects the main challenges faced by the project implementation agency was also included in the lecture. Shri T.R. Sharma discussed the main challenges like land allotment, finalization of alignment, coordination of stake holders, tree cutting etc. and how can resolve the issues.

Hands’ on activity on ‘MS Project 2010’ was taken up by Shri P. Prasad, Principal Consultant and also a Microsoft certified trainer on MS- Project 2010. He discussed the various stages of project life cycle and ways to translate them into computer software using scheduling the project activities and milestones of a real time project with the help of MS Project 2010. He explained most of the functions of MS-Project 2010 like calendar, Gantt chart, Activity, Network diagram, Task uses etc. He also explained plan outline in detail the project Set up, Task details, Duration against task, Link tasks, Check & adjust, Assign resource and Costs, Resolve resource allocations, baseline of the Plan, Manage-track projects, sharing of project information etc. The soft copy of the guide book on MS Project 2010 was also distributed among the participants for future reference.

Valedictory session was chaired by Shri D.K. Ojha Director(IPMD) MOSPI. The participants were asked to express their views regarding the training. In an open environment, the participants expressed their views regarding the training course, its duration, contents, faculty members and their suggestion for future improvement.

Participants gave a positive feedback of the course material and the faculty. One of the suggestions was to include sector specific case studies like coal, shipping etc. related to infrastructure project. This could be an open session where the project manager of successful projects could interact with the participants and share his/her knowledge regarding effective project management. This would be immensely beneficial to the participants as this would provide insight to practical aspects of project management besides the theoretical knowledge that they gain at such training programmes. It was also suggested that lectures on Cost estimation of the Project, Project feasibility analysis, **Training on Primavera**, Project Time Management by Industry expert, Guidelines for Project clearance, Measures of dealing with Project constraint issues like Bureaucratic Procedure, minimizing slippages, managing cost & time overrun may be added and if possible, lecture on challenges in Project Implementation may be elaborated to cover real issues affecting project execution.

The participants were satisfied with the assistance/facilities provided by the staff/officials of NASA during their 5 days stay. Director (IPMD) distributed the participation certificates & group photographs to all the participants and congratulated them for successful completion of the training. He expressed vote of thanks to all the staff official of NASA & Team - IPMD for their support in successful completion of this training.

**List of participants in the Residential Workshop on Project Planning & Management
from 11th to 15th November, 2013 at NASA, Greater NOIDA, U.P.**

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