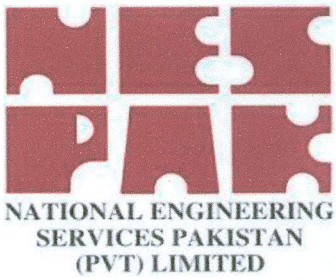
172

BAHRIA UNIVERSITY LAHORE

(A Project of Pakistan Navy)





Department of Management Sciences
Computer Based Training-1 (MSPM-632)
Spring 2017, MSPM-II

Implementation of PMO in Building Services Division at National Engineering Services, Pakistan (NESPAK)

&

Designing and Construction Supervision for Replacement of Two Existing Elevators with New Elevators for Regional Tax Office at Tax House Building, Lahore

---

SUBMITTED BY:

MR. M. MUKRRAM AMIN 03-298162-018
MR. NOMAN AHMED 03-298162-026

SUBMITTED TO:

MR. AHSAN MAQBOOL
PROJECT SUPERVISOR

SUBMISSION DATE: JUNE 20TH, 2017

Department of Management Sciences
Bahria University
(Lahore Campus)

CERTIFICATE

It is to be certified that Master of Philosophy/Masters Project Report Titled **"Implementation of Project Management Office in Building Services Division (NESPAK) & Designing and Construction Supervision for Replacement of Two Existing Elevators with New Elevators for Regional Tax office at Tax House Building, Lahore"** by MSPM-II students named **Mr. M. Mukrram Amin and Mr. Noman Ahmed** has been analyzed by us. We commit the following:

- Project report has apparent new work as comparison to previous published reports or are under review to be published somewhere else. No formula/equation, pictures, tables, sentences or part of it has been duplicated exactly from past works or it is aptly reference mentioned.
- The efforts taken to produce report has no copied data more than allowed limit from any source. (It means there is less than 10% plagiarism).
- There is no fabrication of data or results which have been compiled / analyzed.
- There is no falsification by manipulating research materials, equipment or processes, or changing or omitting data or results such that the research is not accurately represented in the research record.

Mr. Ahsan Maqbool

HOD MSPM:

NATIONAL ENGINEERING SERVICES PAKISTAN (PVT) LIMITED
IEEEP Building, 17-C-1, Civic Centre, Faisal Town Extension, Lahore 54700 Pakistan
BUILDING SERVICES DIVISION

Established in 1973

REF: **June 15, 2017**

CERTIFICATE

This witness statement is issued to the applicant for the fulfilment of his/her MS (Project Management) program requirements being carried out at Bahria University Lahore Campus (BULC).

It is witnessed that **Mr. M. Mukrram Amin Enrollment: 03-298162-018** and **Mr. Noman Ahmad Enrollment: 03-298162-026,** Class: **MSPM-II,** Semester: **SPRING 2017** has contacted / visited / frequently utilized our premises /participated in our real-time projects for implementing project management skills using EPM as a leading software tool.

He / She, in case of participation in organization's project, has contributed fully / partially in the following project(s) and within the highlighted fields (planning, scheduling, earned value analysis, performance monitoring, claim debugging):

1. Designing & Construction Supervision for replacement of two existing elevators with new elevators for Regional Tax Office at Tax House Building, Lahore
2. Pakistan Metro Bus Project at Rawalpindi-Islamabad.
3. Orange line Metro Train Project, Lahore

He, in case of visiting/ frequently utilized premises, has been found skillful in applying EPM in the following highlighted fields (planning, scheduling, earned value analysis, performance monitoring, and report generation).

Additionally, it is noteworthy to mention that **Mr. M. Mukrram Amin Enrollment: 03-298162-018** and **Mr. Noman Ahmad Enrollment: 03-298162-026** demonstrated good ethical practices, enthusiastic approach to work, task convergence capabilities, professionalism while his stay / connection with this organization.

Very truly yours,
for National Engineering Services Pakistan (Pvt) Limited

PROJECT MANAGER
BUILDING SERVICES DIVISION
National Engineering Services Pakistan (Pvt.) Limited, Lahore

(Asif Hafeez)
Project Manager/Senior Engineer
Building Services Division, NESPAK

Telephone: +92-42-99232261-74 Fax: +92-42-99232275
Email: <info@nespak.com.pk> <hvac_bsd@hotmail.com>
P.O Box: 1351 Lahore
Website: www.nespak.com.pk

TÜV AUSTRIA

Department of Management Sciences
Bahria University
(Lahore Campus)

DECLARATION

We (**Mr. M. Mukrram Amin Enrollment: 03-298162-018** and **Mr. Noman Ahmad Enrollment: 03-298162-026,** Class: **MSPM-II,** Semester: **SPRING 2017**) Certify that this work contains no material which has been accepted for the award of any other degree or diploma in my name, in any university or other tertiary institution and, to the best of my knowledge and belief, contains no material previously published or written by another person. In addition, I certify that no part of this work will, in future, be used in a submission in my name, for any other degree or diploma in any university or other territory institution without the prior approval of the Bahria University, Lahore campus and where applicable, any partner or institution responsible for the joint-award of this degree.

I give consent to this copy of my report, when deposited in the Bahria University, Library, being made available for loan and photocopying, subject to the provision of the Copyright Act.

We (**Mr. M. Mukrram Amin Enrollment: 03-298162-018** and **Mr. Noman Ahmad Enrollment: 03-298162-026,** Class: **MSPM-II,** Semester: **SPRING 2017**) also hereby declare that we produced the work presented in this study, during, the scheduled period of study. We also declare that we have not taken any material from any source except referred to whatever due that amount of plagiarism is within acceptable range.

M. Mukrram Amin
03-298162-018
Semester-II
MSPM, BULC

Noman Ahmad
03-298162-026
Semester-II
MSPM, BULC

TABLE OF CONTENTS

PREFACE 1

CHAPTER 1. INTRODUCTION OF NESPAK 2

1.1 Vision of NESPAK 2

1.2 Mission of NESPAK 2

1.3 Organizational Structure of NESPAK 3

1.4 Organizational Staff Hierarchy 4

CHAPTER 2. BUILDING SERVICES DIVISION 5

2.1 Introduction 5

CHAPTER 3. PROJECT MANAGEMENT OFFICE (PMO) 6

3.1 Introduction of PMO: 6

3.2 Major Functions/Roles and Responsibilities of a PMO: 6

3.3 Types of PMO: 8

3.3.1 Supportive type Project Management Office: 8

3.3.2 Controlling type Project Management Office: 8

3.3.3 Directive type Project Management Office: 9

CHAPTER 4. IMPLEMENTATION OF PMO IN BUILDING SERVICES DIVISION 10

4.1 Need of PMO in BSD: 10

4.2 Vision of PMO in BSD: 11

4.3 Mission of PMO in BSD: 11

4.4 Herarichy of PMO in Building Services Division: 12

4.5 Supportive type PMO in Building Services Division 12

CHAPTER 5. PROJECT BRIEF 14

5.1 Background of the Project: 14

5.2 The Project: 14

5.3 Scope of Services: 14

5.3.1 Stage -1 14

5.3.2 Stage-2 15

5.4 Time Schedule for Services 15

5.5 Allocated Budget: 16

CHAPTER 6. PROJECT CHARTER 17

6.1 Purpose of Project Charter 17

6.2 Business Need 17

6.3 Public Health and Business Impact 17
6.4 Objectives 17
6.5 Special Requirements 18
6.6 Major Deliverables 18
6.7 Timeline 18
6.8 High Level Milestone 18
6.9 Funding Source 19
6.10 allocated budget 19
6.11 Hypothesis/ASSUMPTIONS 19
6.12 Limitations/Constraints 19
6.13 MAJOR Risks 20
6.14 Major Personals and Assignments 20
6.15 Stakeholders (Internal and External) 21
6.16 Approval/Sign OFF 21

CHAPTER 7. PROJECT SCOPE STATEMENT 23
7.1 Scope of the Project 23
7.2 Description of the Project Scope 23
7.3 Project Deliverables 24
7.4 Milestones 24
7.5 Acceptance Criteria/Technical Requirements 25
7.6 Assumptions 25
7.7 Constraints 25

CHAPTER 8. MS PROJECT REPORT 26
8.1 Gantt Chart 27
8.2 Milestone Report 34
8.3 Burn down 35
8.4 Cost overview 36
8.5 Project Overview 37
8.6 Resources Overview 38
8.7 Cash Flow 40
8.8 Cost Overruns 41
8.9 Earned Value Report 42
8.10 Resource Cost Overview 43
8.11 Task Cost Overview 44
8.12 Critical Task 45
8.13 S-Curve 46

PREFACE

Bahria University Lahore Campus has a department of Management sciences under which a master level degree program namely "MS Project Management" is going on. This report is a product of knowledge and skill developed within ourselves by our Instructor Mr. Ahsan Maqbool. The main focus of the report is Implementation of Project Management Office in Building Services Division, NESPAK for better deliverance of consultancy services to the Clients. A project report is being executed "Designing & Construction Supervision for Replacement of Two No. of Elevators for Regional Tax Office at Tax House Building, Lahore" by Building Services Division, NESPAK. Implementation of EVM through Microsoft Project Planner is also part of the report. We are thankful to all who has contributed a lot in developing this report specially Mr. Ahsan Maqbool , EVM Trainer at Bahria University Lahore Campus and Mr. Asif Hafeez, Project Manager Building Services Division, NESPAK for their continuous support and guidance.