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CONSTRUCTION MONITORING & EVALUATION PROGRAM

(Reconstruction of Flood Damaged Schools in Khyber Pakhtunkhwa)

Monthly PROGRESS REPORT # 07
JULY 2013

Contents

EXECUTIVE SUMMARY	1
1. THE PROJECT	2
1.1. BACKGROUND	2
1.2. LOCATION	2
1.3. IMPLEMENTATION ARRANGEMENTS	4
1.4. THE M&E SERVICES	4
2. MAJOR ACTIVITIES UNDERTAKEN DURING THE REPORTING MONTH.....	5
2.1. Site Survey of new schools.....	5
2.2. Submission of Validation Report.....	5
2.3. Submission of Site & Layout Plans.....	5
2.4. Submission of Revised Drawings	5
2.5. Submission of Revised BOQs	6
2.6. Meetings	6
3. OVERALL PROGRESS TILL END OF JULY 2013	7
3.1. Mobilization of Staff & Establishment of Office/Residencies	7
3.2. Submission of Final Quality Assurance Plan (QAP)	7
3.3. Validation/Revalidation of Schools	7
3.4. Validation of Alternate Schools	8
3.5. Pre-construction Survey	9
3.6. Pre-construction Survey of Alternate Schools	9
3.7. Preparation of Site/Layout Plans	9
3.8. Submission of Quarterly Progress Reports.....	10
3.9. Submission of Revised Modular Drawings.....	10
3.10. Submission of Revised BOQs of all Modules	20
3.11. Structural Review	20
3.12. Meetings	20

3.13.	Organization Chart and Staff Deployment.....	22
4.	ORGANIZATION CHART WITH KEY STAFF DEPLOYMENT.....	23
4.1.	M&E Setup for Peshawar, D.I. Khan, Malakand Division	28
5.	ITEMS REQUIRING ACTIONS.....	29
Annexure		30
Annexure I	= Consolidated Validation Report for Alternate Sites.....	31
Annexure II	= Site/Layout Plans	35
Annexure III	= Minutes of Meeting	49
Annexure IV	= Site Photographs	51

ABBREVIATION

ADP	Annual Development Program
BOQ	Bills of Quantities
CGI	Corrugated Galvanized Iron
C&W	Communication & Works
CO	Contracting Officer
COR	Contracting Officer's Representative
CSR	Composite Schedule Rate
DAE	Diploma of Associate Engineer
EDO	Executive District Officer
EMMP	Environmental Mitigation Measure Protocol
FAR	Fixed Amount Reimbursement
GoP	Government of Pakistan
HCC	Host Country Contracting
ITP	Inspection & Testing Plan
KP	Khyber Pakhtunkhwa
LoE	Level of Effort
M&E	Monitoring & Evaluation
PaRRSA	Provincial Reconstruction, Rehabilitation & Settlement Authority
PIL	Project Implementation Letter
PM	Project Manager
PMU	Project Management Unit
QA	Quality Assurance
QAM (Building)	Quality Assurance Manager (Building)
RA	Reimbursement Agreement
RFP	Request for Proposal
SoW	Scope of Work
TSF	Tons per Square Foot
USAID	United States Agency for International Development

EXECUTIVE SUMMARY

The province of Khyber Pakhtunkhwa suffered heavy infrastructure damages firstly due to terrorism and militancy and thereafter due to the unprecedented floods of July 2010. United States Agency for International Development (USAID) actively supported the rehabilitation and reconstruction activities of damaged schools, health facilities, drinking water supply schemes and other infrastructure components in Malakand Division by initially obligating funds amounting to USD 36 million under an Activity Agreement (No. 391-011) signed in September, 2009 between USAID and PaRRSA on behalf of GoP. Expanding its portfolio, USAID provided funds for rehabilitation / reconstruction of other infrastructure components including irrigation, bridges and roads etc. in the calamity hit areas.

In June 2012, USAID sub-obligated additional funds amounting to USD 25 million for reconstruction of rains / floods damaged and bomb blasted schools in the affected districts of KP under Amended Activity Agreement No. 391-014. M/s AGES Consultants was assigned the task of Monitoring & Evaluation (M&E) services of these reconstruction activities under USAID/Pakistan Construction Monitoring and Evaluation Program (CMEP), for which a formal contract was signed on September 30, 2012.

The M&E Consultants completed revalidation process of more than 100 identified schools in the month of December, 2012. A total of 42 school sites comprising 27 sites in District DI Khan, 08 in District Shangla, 02 in District Swat, 03 in District Malakand and 02 in District Lower Dir were found suitable / feasible for reconstruction. Pre-construction surveys were conducted and site plans as well as layout plans prepared for all these 42 schools. PaRRSA submitted construction drawings and cost estimates for 24 of these schools to USAID. The M&E Consultants have reviewed the design / drawings and cost estimates and a Project Implementation Letter (PIL) from USAID is now awaited.

Designs for all modules were revised / improved and additional modules introduced in light of lessons learnt from the practice already in vogue in Malakand.

In the meanwhile, another 21 school sites were identified by PaRRSA, out of which 10 sites comprising 05 in District Peshawar, 03 in District Charsadda and 02 in District Nowshera were found suitable / feasible for reconstruction during the revalidation exercise by AGES. Pre-construction surveys were conducted and site plans as well as layout plans prepared for all the 10 school sites.

Another list of 72 school sites is under consideration by PaRRSA & the Education Department.

Physical construction activities will start upon signing by USAID of the stated first PIL for 24 schools, subject to completion of the requisite prequalification, tendering and contracting formalities by PaRRSA. An implementation arrangement in light of the experience gained and lessons learnt from the Malakand model needs to be developed on priority so as to pursue the project implementation / physical activities without any loss of time.

1. THE PROJECT

1.1. BACKGROUND

The disaster of 2010 Monsoon Flood in Khyber Pakhtunkhwa (KP) was massive and unprecedented. The flood not only deprived the local communities of their livelihoods but also created an unprotected and challenging environment for the school going children in the flood hit districts of KP.

As per data received from the Education Department of the KP, the numbers of schools either partially or fully damaged ranged in hundreds. The Government of KP was faced with the challenging task of reconstruction and restoration of these lost academic facilities at huge construction costs. Realizing the importance of early resumption of educational activities, the government appealed to national and international donors for funds to rectify and retrieve the situation. In the meantime, the Government of KP, through its concerned line departments, prepared Damage Need Assessments (DNA) of the flood affected districts.

USAID was already working in Malakand Division on the reconstruction and rehabilitation of schools, health facilities and Water & Sanitation (WatSan) infrastructures affected during the militancy period. Contemplating an expansion of its portfolio of projects in KP with regards to flood relief activities, USAID tasked AGES, (the M&E consultants for the USAID funded sub-projects in the Malakand Division) to undertake the additional work of DNA and validation for the partially and fully damaged schools in some of the districts affected by floods.

In September 2012, AGES was assigned the task of monitoring & evaluation services including Quality Assurance and Environmental Monitoring for the reconstruction activities of the damaged schools in the affected districts Khyber Pakhtunkhwa.

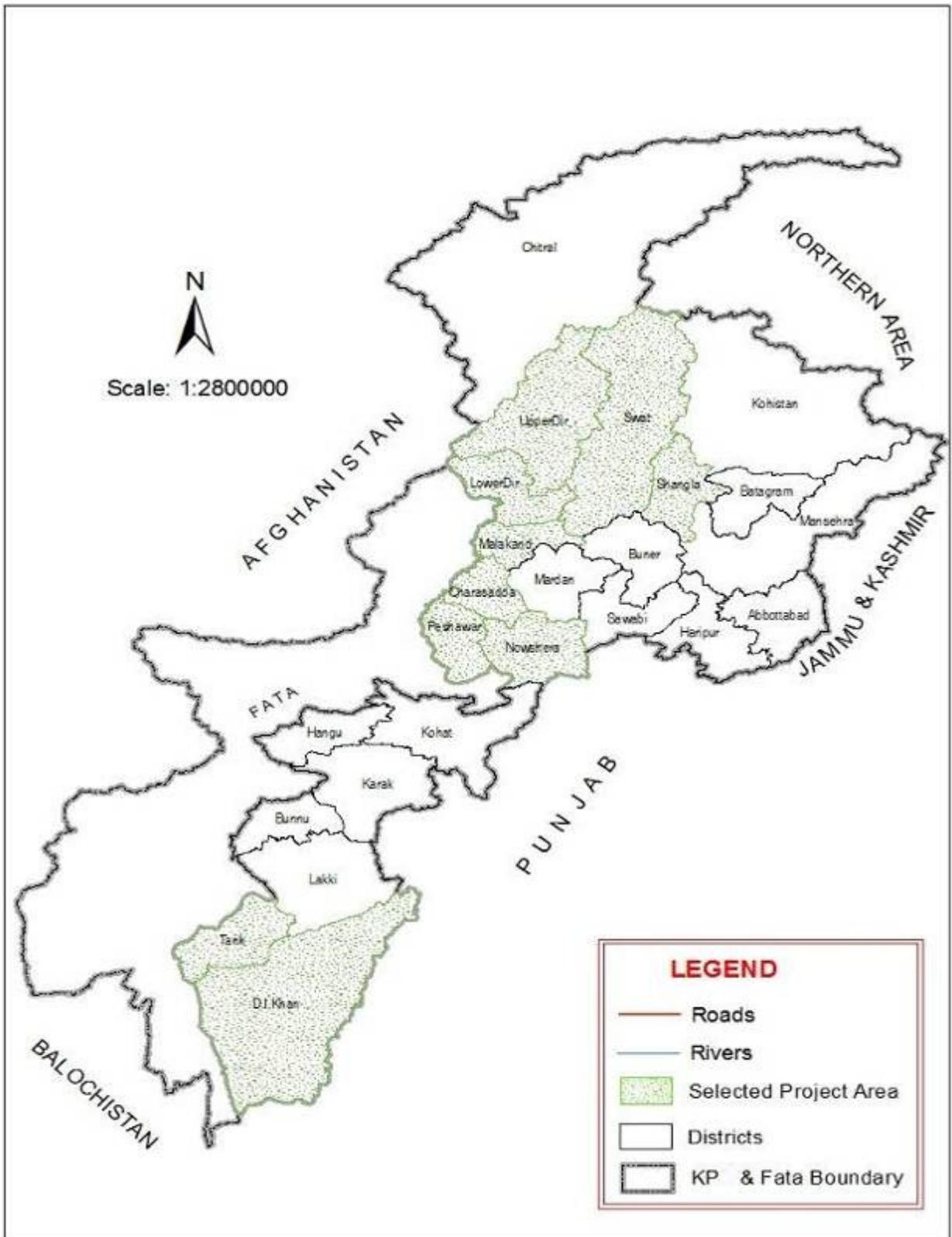
The project has been tasked with the objective to monitor & certify that all the proposed projects are built as per approved designs/drawings, technical specifications and to ensure environmental compliance as per USAID's and Government of Pakistan's (GoP) regulations and requirements.

comprising Peshawar, Nowshera, Charsadda, Malakand, Swat, Dir Upper/Lower, Shangla, DI Khan and Tank, DI Khan.

1.2. LOCATION

The revalidation and subsequent reconstruction activities are presently being pursued in the district of Peshawar, Nowshera, Charsadda, Swabi, Malakand, Swat, Dir Upper/Lower, Shangla, D.I Khan, and Tank.

FIGURE 1.1: PROJECT LOCATION MAP



1.3. IMPLEMENTATION ARRANGEMENTS

The Economic Affairs Division (EAD) designated the Director General (DG) of Provincial Reconstruction, Rehabilitation and Settlement Authority (PaRRSA) as an Additional Representative of the Government of Pakistan (GoP) for the purposes of the implementation of Program Areas. The GoKP has established a Project Steering Committee (PSC) to provide oversight, guidance and approvals required for smooth and timely implementation of the activities. The PSC is chaired by DG PaRRSA, and comprised representatives of USAID Pakistan and relevant provincial departments involved in the planning and execution of the activities. Therefore, PaRRSA has the authority to carry out the works to be financed under a Fixed Amount Reimbursement (FAR) Agreement. Accordingly, PaRRSA is fully responsible for carrying out these works through contracting, supervising the contractor(s) and for ensuring that the contractor(s) diligently undertake the work and provide the necessary equipment, skilled and unskilled labor, and efficient supply of materials to ensure uniform and continuous progress once construction has started. A strategy is presently being debated on and under formulation by the participation of all stakeholders to decide/identify an appropriate executing agency to undertake implementation of this project, on behalf of the government of KP. M/s AGES Consultants of Peshawar have been appointed by USAID as Monitoring & Evaluation Consultants for this project.

1.4. THE M&E SERVICES

The Contract for M&E Services for the “Construction Monitoring & Evaluation Program” was signed on September 30, 2012. The M&E services comprise the following.

- Submission of Quality Assurance Plan (QAP).
- Validation / Revalidation of the July 2010 flood damage assessment done through AGES for fully damaged schools to the current status.
- Pre-Construction report of each school site to establish base line condition.
- Preparation of site plan as well as layout plans on the basis of pre-construction survey data obtained as a result of site visits.
- Review and Vetting of Project Design Drawings / Documents.
- Verifying the quality of construction/installation works and ensures conformity to the contract construction drawings, standards, technical specifications & requirements
- Site Monitoring and Inspection Reports
- Assisting, advising & reporting to USAID/PaRRSA with regard to reconstruction activities.
- Field and Laboratory Testing
- Monthly & Quarterly Progress Reports

2. MAJOR ACTIVITIES UNDERTAKEN DURING THE REPORTING MONTH

2.1. Site Survey of new schools

A list of new (21) schools was provided by PaRRSA for physical survey & assessment of district Peshawar, Nowshera and Charsadda. Physical survey & assessment of the schools mentioned in the list was conducted and the following conclusion drawn. (Attached Annex-I).

Suitable Sites	10
Unsuitable Sites	06
Not Visited	05
Total Sites	21

2.2. Submission of Validation Report

Final Consolidated Validation Report for alternate schools was shared with the stakeholders on July 31, 2013, for their comments & review.

2.3. Submission of Site & Layout Plans

Draft Site & Layout Plans of alternate suitable sites have been prepared & shared with the stakeholders on July 31, 2013 for their review & comments (Attached Annex-II).

2.4. Submission of Revised Drawings

Structural, Architectural, Electrical & Typical drawings of all Modules were revised in light of meetings held in the reporting quarter and shared with PaRRSA. Following activities were also carried out during the period:

- Finalization of layout plans of 24 schools selected for PIL-1.
- RCC parapet wall has been moved towards inside by 2 inches in Architectural drawings of all modules.
- Marble flooring has been reinstated and incorporated in drawings & BOQ of all modules.
- A 6" high marble skirting has been agreed and incorporated in drawings & BOQ of all modules.
- Lightning Arrester has been added in drawings & BOQ of all modules.
- Finalization and submission of site specific drawings of 24 schools to the stakeholders

2.5. Submission of Revised BOQs

BOQ's for 24 schools selected for PIL-1 have been reviewed & finalized in consultation with USAID Engineer & Chief Infrastructure PaRRSA and submitted for onward process at their ends.

2.6. Meetings

A meeting was held on 22-07-2013 in the office of Programme Manager PaRRSA. Program Manager PaRRSA, Chief Infrastructure PaRRSA, Engineer USAID, Chief Planning Officer PaRRSA, Planning Officer PaRRSA, Senior Engineer PaRRSA, QAM (Building) CMEP AGES, Mid Level Specialist AGES & Field Manager AGES attended the meeting.

Main purpose of the meeting was, firstly to review the draft validation report of alternate schools submitted by AGES and secondly to get fresh list of alternate schools for physical survey & assessment.

3. OVERALL PROGRESS TILL END OF JULY 2013

3.1. Mobilization of Staff & Establishment of Office/Residencies

- Key staff of AGES was mobilized in September 2012 and preliminary meetings were conducted with the stakeholders for evolving strategy for the implementation of the project.
- Need based logistics have been provided
- Project Office at Peshawar has been established
- Residencies (02) for office as well as field staff have been established

3.2. Submission of Final Quality Assurance Plan (QAP)

QAP was reviewed in light of observations/comments made by USAID & final version shared with the stakeholders on March 13, 2013.

3.3. Validation/Revalidation of Schools

The Validation/Revalidation Reports of Schools of all assigned Districts were shared with USAID & PaRRSA for their review & comments.

The District wise summary is reproduced as below.

AT A GLANCE STATUS

District wise status

Total listed sites	114
Suitable Sites	42
Unsuitable Site	72

District Swat

Total listed sites	28
Suitable Sites	02
Unsuitable Site	26

District Shangla

Total listed sites	12
Suitable Sites	08
Unsuitable Site	04

District Malakand

Total listed sites	04
Suitable Sites	03
Unsuitable Site	01

District Dir Upper/Lower

Total listed sites	09
Suitable Sites	02
Unsuitable Site	07

District D.I.Khan

Total listed sites	35
Suitable Sites	27
Unsuitable Site	08

District Tank

Total listed sites	01
Suitable Sites	00
Unsuitable Site	01

District Peshawar

Total listed sites	17
Suitable Sites	00
Unsuitable Site	17

District Charsadda

Total listed sites	06
Suitable Sites	00
Unsuitable Site	06

District Nowshera

Total listed sites	01
Suitable Sites	00
Unsuitable Site	01

3.4. Validation of Alternate Schools

The Validation Report of alternate schools of all assigned Districts was shared with the stakeholders for their review & comments.

The District wise summary is reproduced as below.

AT A GLANCE STATUS

Total listed sites	21
Suitable Sites	10
Unsuitable Site	06
Not Visited	05

District wise status

District Peshawar

Total listed sites	12
Suitable Sites	05
Unsuitable Site	06
Not Visited	01

District Charsadda

Total listed sites	06
Suitable Sites	03
Not Visited	03

District Nowshera

Total listed sites	03
Suitable Sites	02
Not Visited	01

3.5. Pre-construction Survey

After completion of revalidation process, the pre-construction survey of all 42 suitable sites was conducted and site specific data was collected. The data collected as a result of site visits was properly documented and shared with the USAID & PaRRSA for their review & comments.

3.6. Pre-construction Survey of Alternate Schools

After completion of validation process, the pre-construction survey of all 10 suitable sites was conducted and site specific data was collected. The data collected as a result of site visits was properly documented and will be shared with the stakeholders for their review & comments.

3.7. Preparation of Site/Layout Plans

- Site Plans of 42 suitable sites were prepared & finalized on the basis of survey conducted by the AGES Field Engineers during the revalidation process & were shared with USAID & PaRRSA for their review & comments.
- Layout Plans of 42 suitable sites were prepared & finalized in light of the survey conducted by the AGES Field Engineers for all suitable sites & was shared with USAID & PaRRSA for their review & comments.
- Photographs of 42 suitable sites were also shared with USAID & PaRRSA for their information & comments.

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- An engineer along with surveyors conducted topographic survey of nine schools (Shangla-06, Dir Lower-01 & Malakand-02) and prepared contour map of each school for layout plans and quantities estimation of developmental works.
 - Site & Layout Plans of ten alternate schools were prepared and shared with the stakeholders for their review & comments

3.8. Submission of Quarterly Progress Reports

- First Quarterly Progress report for the quarter ending December 31, 2012 was shared with USAID PaRRSA for the review and comments.
- Second Quarterly Progress Report for the quarter ending on March 31, 2013 was shared with USAID/PaRRSA for their review & comments on April 04, 2013.
- Third Quarterly Progress Report for the quarter ending on June 30, 2013 was shared with USAID/PaRRSA for their review & comments on July 08, 2013.

3.9. Submission of Revised Modular Drawings

All modules were revised in accordance with the decisions made in the meetings held on Nov 17, 2012, Dec. 27, 2012, May 17, 2013, May 24, 2013, June 28, 2013 and lessons learnt from M&E Project Malakand and shared with the stakeholders for their comments. The modifications/changes made in the Modules as stated earlier are reproduced for ready reference as follow:

- Ramp has been provided in the school building for special students as previously there was no ramp in the drawings of M&E Project Malakand.
- Two numbers doors have been provided in the class room as previously one door in the class room was provided in the drawings of M&E Project Malakand.
- Two numbers windows have been provided in the front wall of the class room as previously one window in the front wall of the class room was provided in the drawings of M&E Project Malakand.
- Decision regarding changing of marble flooring with PCC flooring, taken in a meeting held on Nov 17, 2012 has been withdrawn in a design review meeting held on June 28, 2013 and the marble flooring has been reinstated.
- Decision regarding changing of 3 ft high marble skirting with 6" high PCC skirting has been withdrawn in a design review meeting held on June 28, 2013 and 6" high marble skirting has been agreed.
- Steel doors have been replaced with MDF Panel doors embedded in vertical and horizontal wooden members.

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- Thickness of RCC Parapet wall has been increased from 4 inches to 6 inches. Steel Railing 1'-6" high has been provided over 2'-6" high RCC parapet wall. RCC parapet wall has been moved toward inside by 2 inches.
 - Wire mesh has been provided in all RCC to Brick Masonry Joints to avoid development of cracks at later stages.
 - M3(High), M4(High), M11(Lab & Lib) and LB are developed as new modules.
 - Tuff tiles walkways have been provided.
 - Isolated footing has been replaced with strip footing.
 - Grid dimensions of each module have been made identical, by increasing the longitudinal length by 6 inches, for the architectural enhancement of the module.
 - Tube lights have been replaced with energy savers.
 - Voltage stabilizer has been designed & provided in the drawing of each module, in order to resolve the low voltage issues in the project areas.
 - Change over switch has been provided in the distribution board.
 - Traditional roof treatment has been kept intact for schools located in Southern Districts.
 - Mosaic roof treatment will be provided in the schools located in the Central and Northern Districts.
 - Window shades have been replaced with 2' wide projection in the rare and front side of the building at ground floor level.
 - Plinth protection of brick on edge has been replaced with PCC (1:3:6)
 - Quantity of cupboard has been deleted from BOQ
 - CI pipes have been replaced with suitable PVC pipes as practice in M&E Project Malakand
 - Parapet wall has been deleted from lavatory block and admin block
 - Window will open towards outside, provided with an arrangement to control its operation
 - Class room doors will open towards outside
 - One additional toilet has been added for special students in the existing lavatory block
 - Ramp has been provided for special students in lavatory block
 - English WC has been provided for special students
 - Fire extinguisher has been included in the BOQ
 - Size of mumty door has been changed from 3'x7' to 3'-6"x7'
 - PCC "Gola" has been provided all around along parapet wall to avoid seepage
 - Quantity of enamel Paint on all internal walls of the school building up to 3 ft height has been included in the BOQ.
 - Cost of lightning arrester has been added in the BOQ.

The modular drawings have been bifurcated into four sections:

- Architectural Drawings
- Structural Drawings
- Electrical Drawings
- Typical Drawings

Architectural Drawings:

The Architectural drawings have been modified in the light of decisions taken in the recent meetings as mentioned above and lessons learnt from M&E Project Malakand. Drawings of floor pattern for PCC (1:2:4) flooring and ramp details have been developed as new drawings and inducted in the Architectural drawings of all modules. Architectural Section of the module comprises of the following drawings;

1. Column Layout Plan
2. Ground Floor Plan
3. First Floor Plan
4. Mumty Plan
5. Front & Rear Elevation
6. Side Elevation
7. Section at A-A
8. Top Roof Plan
9. Stair Case Plan
10. Section at B-B (Stair Case Detail Section)
11. Typical Class Room Details
12. Doors Elevations & Sections
13. Windows Elevations & Sections
14. Gate & Boundary Wall Details
15. Gate Details & Plinth Protection
16. Flag Post Details
17. Ramp Details

Structural Drawings:

The Structural drawings have been modified in the light of decisions taken in the recent

meetings as mentioned above and lesson learnt from M&E Project Malakand. During the implementation of M&E Project Malakand, the isolated footing had been replaced with strip footing and accordingly drawings for Foundation & Excavation for 0.5TFSF, 0.75TFSF and 1.00TFSF had been revised and now these revised drawings have been inducted in the structural drawings of all modules. Also drawings of Beam Column Connection has been developed as new drawings and inducted in the Structural drawings of all modules. The Structural Section of the module comprises of the following drawings;

1. General Notes
2. Foundation & Excavation Details for 0.50TFSF
3. Foundation & Excavation Details for 0.75TFSF
4. Foundation & Excavation Details for 1.00TFSF
5. Column Key Plan & Section Details
6. Plinth Beam Key Plan & Section Details
7. Ground Floor Beam Key Plan & Details
8. First Floor Beam Key Plan & Details
9. Ground Floor Slab Details
10. First Floor Slab Details
11. Mumty Slab Details
12. Beam Column Connection

Electrical Drawings:

The Electrical drawings have been modified in the light of decisions taken in the recent meetings as mentioned above and lesson learnt from M&E Project Malakand. Height of each electric fixture, with respect to finish floor level, has been provided in the legends portion of the drawings for the guidance of the field staff. Drawings of Stabilizer have been developed as new drawings and inducted in the Electrical drawings of all modules. The Electrical Section of the module comprises of the following drawings;

1. Lighting Layout Ground Floor
2. Lighting Layout First Floor
3. Lighting Layout Mumty
4. Distribution Board
5. Installation Details

-
6. Single Line Diagram of Stabilizer
 7. General Stabilizer installation Details
 8. Plate type earth electrode

Typical Drawings:

Drawings of sewerage system includes Man Hole Type A, Man Hole Type B, Septic Tank, Soakage Pit have been developed as new drawings and included in the typical drawings of all modules. Typical drawings are listed here under;

1. Typical Mumty Details
2. Typical Stair Case Details
3. Typical Neck Column Details
4. Typical Expansion Joint Details
5. Typical Man Hole Detail (Type A)
6. Typical Man Hole Detail (Type B)
7. Typical Septic Tank Details
8. Typical Soakage Pit Details

Details of class rooms and other facilities for various modules are given in a sequence.

Academic Block High School (Double Storey):

Architectural, Structural & Electrical drawings of Academic Block High School module was originally submitted as M1 (High) module to PaRRSA on January 18th, 2013 for their review and comments. Upon their verbal advice, the module was renamed to Academic Block High School. This module has been developed as new module, specifically for high and higher secondary schools. The details of Academic Block High School module are as under:

Ground Floor:

- ❖ 03 Class Rooms (Size 24'x 18')
- ❖ 02 Stair Cases
- ❖ Verandah 9 ft. wide

First Floor:

- ❖ 03 Class Rooms (Size 24'x 18')
- ❖ 02 Stair Cases
- ❖ Verandah 9 ft. wide

M-1 Module (Double Storey):

Architectural, Structural, Electrical & Typical drawings of M1 module have been submitted electronically to PaRRSA on February 20, 2013 for their review and comments. This module will be used for primary schools only. The details of M1 module are as under;

Ground Floor:

- ❖ 03 Class Rooms (Size 25'x 16')
- ❖ 02 Stair Cases
- ❖ Verandah 9 ft. wide

First Floor:

- ❖ 03 Class Rooms (Size 25'x 16')
- ❖ 02 Stair Cases
- ❖ Verandah 9 ft. wide

M-2 Module (Single Storey Admin Block):

Architectural, Structural, Electrical & Typical drawings of M2 module have been submitted electronically to PaRRSA on February 20, 2013 for their review and comments. This module will be used in high and higher secondary schools only in accordance with decision taken in the meeting held on December 27th, 2012. The details of M2 module are as under;

Ground Floor:

- ❖ Principal Office (Size 14'x16')
- ❖ Staff Room (Size 14'x16')
- ❖ Verandah 9 ft. wide

M-3 Module (Double Storey):

Architectural, Structural, Electrical & Typical drawings of M3 module have been submitted to PaRRSA on February 08, 2013 for their review and comments. This module will be used in primary schools only. The details of M3 module are as under;

Ground Floor:

- ❖ 03 Class Rooms (Size 25'x 16')
- ❖ 01 Stair Case
- ❖ Verandah 9 ft. wide

First Floor:

- ❖ 03 Class Rooms (Size 25'x 16')
- ❖ 01 Stair Case
- ❖ Verandah 9 ft. wide

M-4 Module (Double Storey):

Architectural, Structural, Electrical & Typical drawings of M4 module have been submitted electronically to PaRRSA on February 22, 2013 for their review and comments. This module will be used for primary schools only. The details are as under;

Ground Floor:

- ❖ 02 Class Rooms (Size 25'x 16')
- ❖ 01 Stair Case
- ❖ Verandah 9 ft. wide

First Floor:

- ❖ 02 Class Rooms (Size 25'x 16')
- ❖ 01 Stair Case
- ❖ Verandah 9 ft. wide

M-5 Module (Double Storey):

Architectural, Structural, Electrical & Typical drawings of M5 module have been submitted electronically to PaRRSA on February 22, 2013 for their review and comments. This module has been modified in accordance with the decision taken in a meeting held on 27th December 2012 regarding provision of Principal Office and Staff Room in High and Higher Secondary Schools and therefore will be used in high & higher secondary schools only. The details of M5 module are as under;

Ground Floor:

- ❖ 01 Class Room (Size 24'x 18')
- ❖ 01 Principal Office (Size 11'-7½"x 18')
- ❖ 01 Staff Room (Size 11'-7½"x 18')
- ❖ 01 Stair Case
- ❖ Verandahs 9 ft. wide

First Floor:

- ❖ 02 Class Rooms (Size 24'x 18')
- ❖ 01 Stair Case
- ❖ Verandahs 9 ft. wide

M-6 Module (Double Storey):

Architectural, Structural, Electrical & Typical drawings of M6 module have been submitted to PaRRSA on Feb. 23, 2013 for their review & comments. M6 module has been modified in accordance with decision taken in the recent meetings regarding provision of Principal Office and Staff Room in High and Higher Secondary Schools. The Examination Hall has been modified accordingly and was redesigned by the Structure Engineer of CMEP. The Structural drawings have been technically reviewed by the Structure Specialist. The preparation of reviewed revised structural drawings is presently in progress. The details of M6 module are as under;

Ground Floor:

- ❖ 01 Class Room (Size 24'x 18')
- ❖ 01 Principal Office (Size 11'-7½"x 18')
- ❖ 01 Staff Room (Size 18'-9"x 18')
- ❖ 01 Store (Size 11'-6"x 18')
- ❖ 01 Stair Case
- ❖ Verandahs 9 ft. wide

First Floor:

- ❖ 01 Class Room (Size 24'x 18')
- ❖ 01 Examination Hall (Size 48'-9"x 26'-9")
- ❖ Stair Case
- ❖ Verandahs 9 ft. wide

M-7 Module (Double Storey):

Architectural, Electrical & Typical drawings of M7 module have been submitted to PaRRSA on Feb. 23, 2013 for their review & comments. This module has been developed as new module specifically for primary schools having land constraints. The details of M7 module are as under;

Ground Floor:

- ❖ 02 Class Rooms (Size 25'x 16')
- ❖ 01 Stair Case
- ❖ Verandah 9 ft. wide

First Floor:

- ❖ 02 Class Rooms (Size 25'x 16')
- ❖ 01 Stair Case
- ❖ Verandah 9 ft. wide

M-11 Module Lab & Library (Double Storey):

Architectural, Electrical, Typical drawings and preliminary structure drawings of Lab & Library module have been prepared and shared with PaRRSA for their review. This module has been developed as new module specifically for high schools having land constraints. The details of Lab & Library module are as under;

Ground Floor:

- ❖ 01 Laboratory (Size 30'x 20')
- ❖ 01 Library (Size 20' x 30')
- ❖ 01 Stair Case
- ❖ Verandah 10'-3" wide

First Floor:

- ❖ 01 Class Rooms (Size 30'x 20')
- ❖ 01 Class Rooms (Size 20'x 30')
- ❖ 01 Stair Case
- ❖ Verandah 10'-3" wide

Lavatory Block (Single Storey):

Architectural, Electrical, Typical drawings and preliminary structure drawings of Lavatory block have been prepared and shared with PaRRSA for their review. This module has been developed as new module. The details of Lavatory block are as under;

- ❖ 03 Toilets for students
- ❖ 01 Toilet for special students
- ❖ 01 Toilet for teachers

T-1 Module (Double Storey):

Architectural, Structural, Electrical & Typical drawings of T1 module have been submitted electronically to PaRRSA on March 13, 2013 for their review and comments. T-1 Module is similar to M-1 Module except RCC slab of first floor has been replaced by steel trusses with CGI sheets Roofing for snowbound areas of KP. This module will be used for primary schools only.

T-2 Module (Single Storey Admin Block):

Architectural, Structural & Electrical drawings of T2 module have been submitted electronically to PaRRSA on March 13, 2013 for their review and comments. This module will be used in high and higher secondary schools only in accordance with

decision taken in the meeting held on December 27, 2012. T-2 Module is similar to M-2 Module except RCC slab of first floor has been replaced by steel trusses with CGI sheets Roofing for snowbound areas of KP.

T-3 Module (Double Storey):

Architectural, Structural, Electrical & Typical drawings of T3 module have been submitted to PaRRSA on March 14, 2013 for their review and comments. T-3 Module is similar to M-3 Module except RCC slab of first floor has been replaced by steel trusses with CGI sheets Roofing for snowbound areas of KP. This module will be used in primary schools only.

T-4 Module (Double Storey):

Architectural, Structural, Electrical & Typical drawings of T4 module have been submitted electronically to PaRRSA on March 14, 2013 for their review and comments. T-4 Module is similar to M-4 Module except RCC slab of first floor has been replaced by steel trusses with CGI sheets Roofing for snowbound areas of KP..This module will be used for primary schools only.

T-5 Module (Double Storey):

Architectural, Electrical & Typical drawings of T5 module have been submitted electronically to PaRRSA on March 20, 2013 for their review and comments. T-5 Module is similar to M-5 Module except RCC slab of first floor has been replaced by steel trusses with CGI sheets Roofing for snowbound areas of KP. This module will be used for high & higher secondary schools.

T-6 Module (Double Storey):

Architectural, Electrical & Typical drawings of T6 module have been submitted electronically to PaRRSA on March 20, 2013 for their review and comments. T-6 Module is similar to M-6 Module except RCC slab of first floor has been replaced by steel trusses with CGI sheets Roofing for snowbound areas of KP.This module will be used for high & higher secondary schools.

T-7 Module (Double Storey):

Architectural, Electrical & Typical drawings of T7 module have been submitted

electronically to PaRRSA on March 20, 2013 for their review and comments. T-7 Module is similar to M-7 Module except RCC slab of first floor has been replaced by steel trusses with CGI sheets Roofing for snowbound areas of KP. This module will be used for primary schools only.

3.10. Submission of Revised BOQs of all Modules

BOQs of 24 schools for PIL-1 have been revised & finalized after meetings and discussion with PaRRSA & USAID and submitted to the stakeholders.

3.11. Structural Review

All modules have been structural reviewed by the Structure Engineer of CMEP. The changes made were duly incorporated in the structural drawings of all modules.

3.12. Meetings

1. A meeting was held in the office of PaRRSA on 24-09-2012. All the stakeholders i.e USAID, PaRRSA and AGES participated in the proceedings. Main purpose of the meeting was to evolve strategy for the way forward for implementation of the reconstruction of flood damaged schools based on the findings of the validation and damaged assessment report prepared by AGES in Year 2010.
2. A meeting was held in the Main office of AGES on 17-11-2012. Chief Infrastructure PaRRSA, Project Manager CMEP AGES, Quality Assurance Manager CMEP AGES, Partners AGES and Field Engineers AGES attended the Meeting. The purpose of meeting was to review the previous minutes of meeting and share the validation/revalidation reports prepared by AGES and to evolve further strategy for the revalidation of schools in the rest of the Districts.
3. A meeting was held in the Main Office of AGES on 27-12-2012. All the Stakeholders i.e USAID, PaRRSA and AGES participated in the meeting. The main purpose of the meeting was to review the previous minutes of meeting and share the validation/revalidation of all Districts covered under the CMEP KP.
4. Meetings were held on 15-10-2012 & 17-10-2012 in the office of EDO District Shangla. EDO & ADO District Shangla, Field Manager AGES & Field Monitor AGES attended the meeting. The purpose of meeting was to chalk out visit program needed for the revalidation of schools in District Shangla.
5. A meeting was held in the office of DTL M&E Malakand at Mingora. The M & E Engineers of M&E Project who were involved in the validation process in Year 2010 participated in the meeting beside the QAM(B) CMEP AGES, coordinator Swiss

Agency for Development and Cooperation and Field Monitor AGES. The purpose of meeting was to identify the suitable and unsuitable sites in light of survey done in year 2010.

6. A meeting was held in the office of M&E Dir at Timergara. Infrastructure Coordinator PaRRSA, Coordination Engineer M&E Dir, M&E Engineer Dir, Site Engineers M&E Dir, QAM Building CMEP AGES and Field Monitor CMEP AGES attended the meeting. The purpose of the meeting was to discuss the validation reports with the respective site engineers of M&E Dir who were involved in the validation process done in Year 2010. The suitable/unsuitable sites were identified in light of their reports.
7. A meeting was held in the Office of EDO District Malakand on 29-11-2012. EDO & ADO District Malakand, QAM(B) CMEP AGES & Field Monitor attended the meeting. The purpose of the meeting was to chalk out program for the visits of the suitable sites as pointed out by EDO Malakand.
8. A meeting was held on 05-12-2012 in the office of EDO D.I.Khan. All DDOs of the respective Tehsils, QAM (B) CMEP AGES, Field Manager and Field Monitor CMEP attended the meeting. The schools having land issues were identified and program was chalked out for the visits of suitable sites. The DDOs of the respective Tehsils were also involved in the revalidation process.
9. Introductory meeting with Country Director USAID Pakistan was held on April 17, 2013 in Islamabad.
10. A meeting was held on 17-05-2013 in the office of Programme Manager PaRRSA. Program Manager PaRRSA, Chief Infrastructure PaRRSA, Programme Manager USAID for KP, Engineer USAID, Team leader M&E AGES, CPO PaRRSA, SPO Education Department, DEO DI Khan, QAM (Building) CMEP AGES, Mid Level Specialist AGES, Field Manager AGES & Office Engineer AGES attended the meeting.

It was decided and agreed in the meeting that 24 out of 42 feasible sites/schools as re-validated & assessed by AGES shall be tagged as priority-1 having comparatively high enrollment & high future potential and will be included in PIL-1. Other issues pertaining to the project were also discussed in the meeting and decisions made accordingly.

11. A meeting was held on 24-05-2013 in the Project office CMEP Peshawar to discuss Layout Plans, modular drawings and cost estimates for PIL No.01. Chief Infrastructure PaRRSA, Partner AGES, QAM (Building) CMEP AGES, Mid Level

Specialist AGES, Field Manager AGES & Office Engineer AGES attended the meeting. Some technical modifications/changes were suggested and agreed to be incorporated in the BOQs, Architectural and Structural Drawings keeping in view the lesson learnt from M&E project

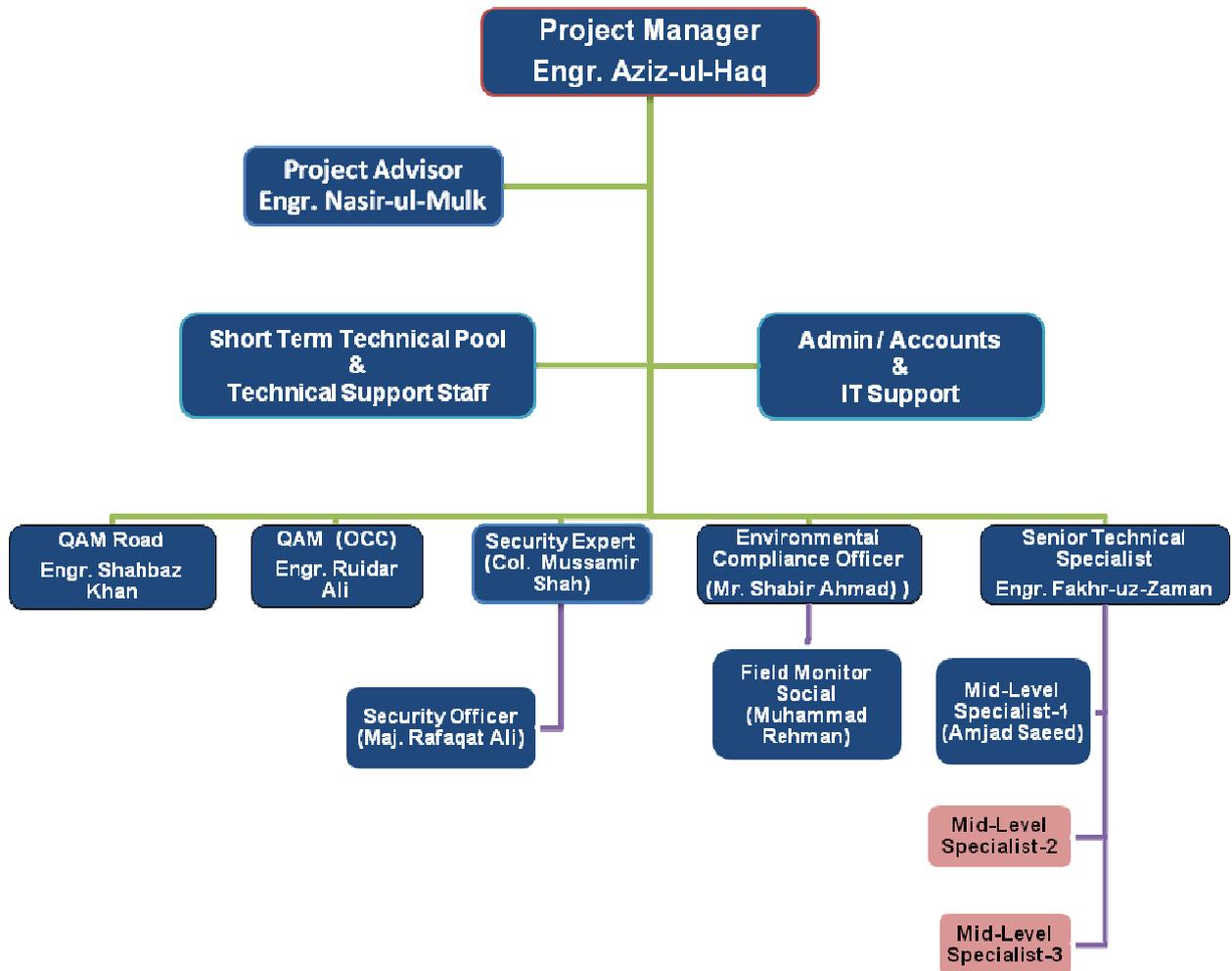
12. A meeting with Engineer USAID and Chief Infrastructure PaRRSA was held on 28-06-2013 to review & finalize the BOQ's and drawings of 24 schools selected for PIL-1
13. A meeting was held with USAID & PaRRSA in PaRRSA Secretariat Peshawar on 28-06-2013 and discussed the flood/militancy school implementation strategy and progress of school under KPRP.
14. A meeting was held on 22-07-2013 in the office of Program Manager PaRRSA. Program Manager PaRRSA, Chief Infrastructure PaRRSA, Engineer USAID, Chief Planning Officer PaRRSA, Planning Officer PaRRSA, Senior Engineer PaRRSA, QAM (Building) CMEP AGES, Mid Level Specialist AGES & Field Manager AGES attended the meeting (Attached Annex III).

Main purpose of the meeting was firstly to review the draft validation report of alternate schools submitted by AGES and secondly to get fresh list of alternate schools for physical survey & assessment. It was also decided that minimum 04 class rooms will be provided in place of 06 class rooms keeping in view low enrollment.

3.13. Organization Chart and Staff Deployment

The M&E Consultants organization chart and staff deployment is presented in the next section.

4. ORGANIZATION CHART WITH KEY STAFF DEPLOYMENT



LEGEND:



Mobilized



To be mobilized with expansion of work

PROJECT MANAGER OFFICE – STAFF DEPLOYMENT

S. No.	Name	Designation	
1	Aziz-ul-Haq	Project Manager	ROAD COMPONENT
2	Fakhr uz Zaman	Senior Technical Specialist	
3	Shabir Ahmad Khan	Environmental Compliance Officer	
4	Amjad Saeed	Mid-Level Specialist	
5	Saqib Maqbool	Junior Engineer	
6	Arshad Khan	CAD Operator	
7	Sohail Anjum	Senior Surveyor	
8	Abdul Waheed	Manager Admin/Finance	
9	Amir Habib	IT Officer	
10	Muhammad Bilal	Assistant Accountant	
11	Faizan Khan	Computer Operator	
12	Muhamamd Rehman	Field Monitor Social	OTHER CONSTRUCTION COMPONENT
13	Anwar Dad	Quantity Surveyor	
14	Waqar ul Mulk	Junior Architect	
15	Naeem Jan	Senior Surveyor	
16	Muhammad Waqas	Survey Assistant	
17	Muhammad Ayaz	Survey Assistant	
18	Muhammad Zeeshan Atta	Survey Assistant	
19	Sana ullah	Accountant	
20	Fida Ullah	Computer Operator	

QUALITY ASSURANCE MANAGER OFFICE (Other Construction Component)

S. No.	Name	Designation
1	Ruidar Ali	QAM (OCC)
2	Muhammad Humayun	Field Manager M&E
3	Ifftikhar Alam Khan	Office Engineer
4	Fida Ullah	Computer Operator

**Figure 4.1: TEAM COMPOSITION-BUILDING COMPONENTS
 USAID/PAKISTAN CONSTRUCTION MONITORING AND EVALUATION PROGRAM**

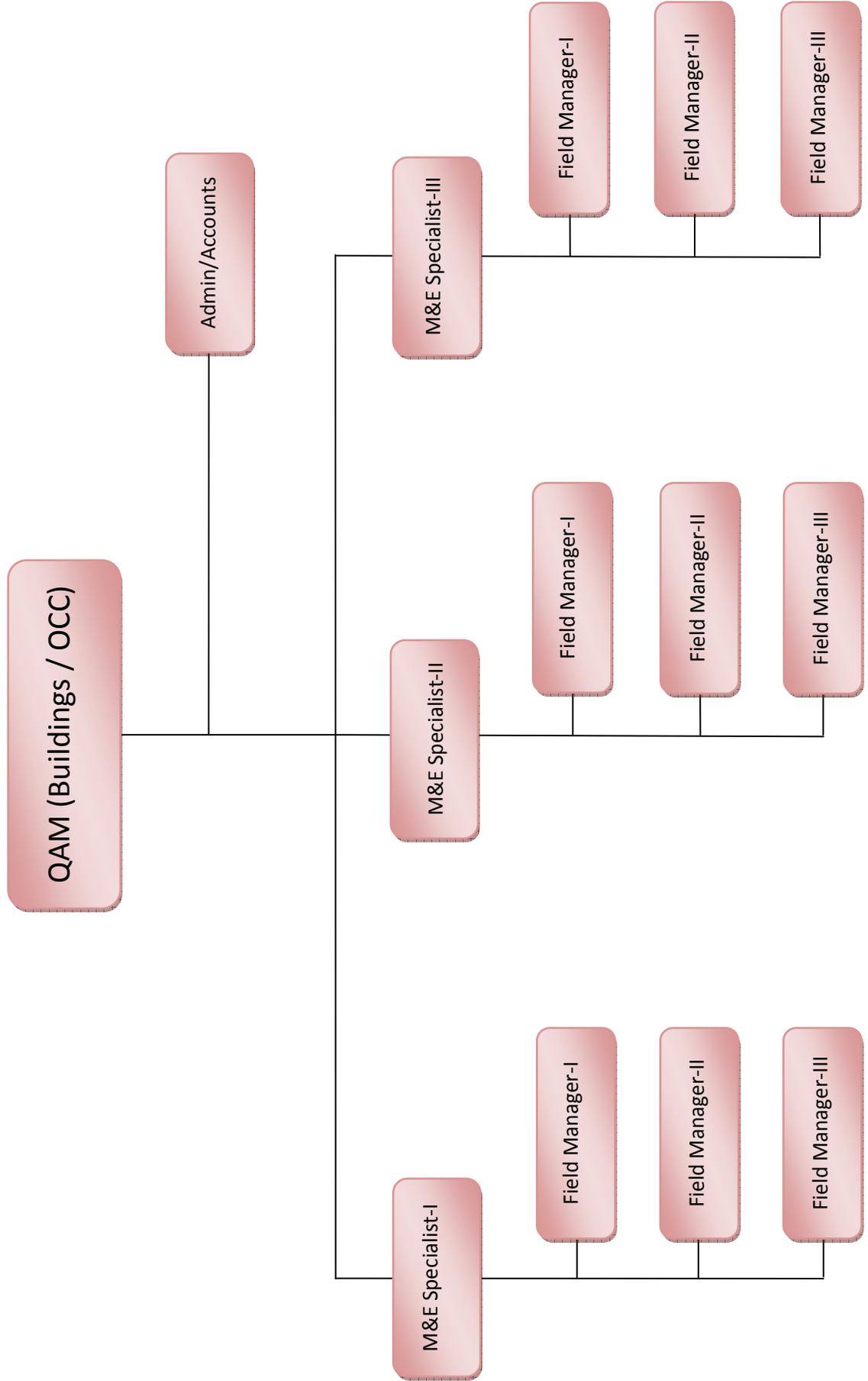
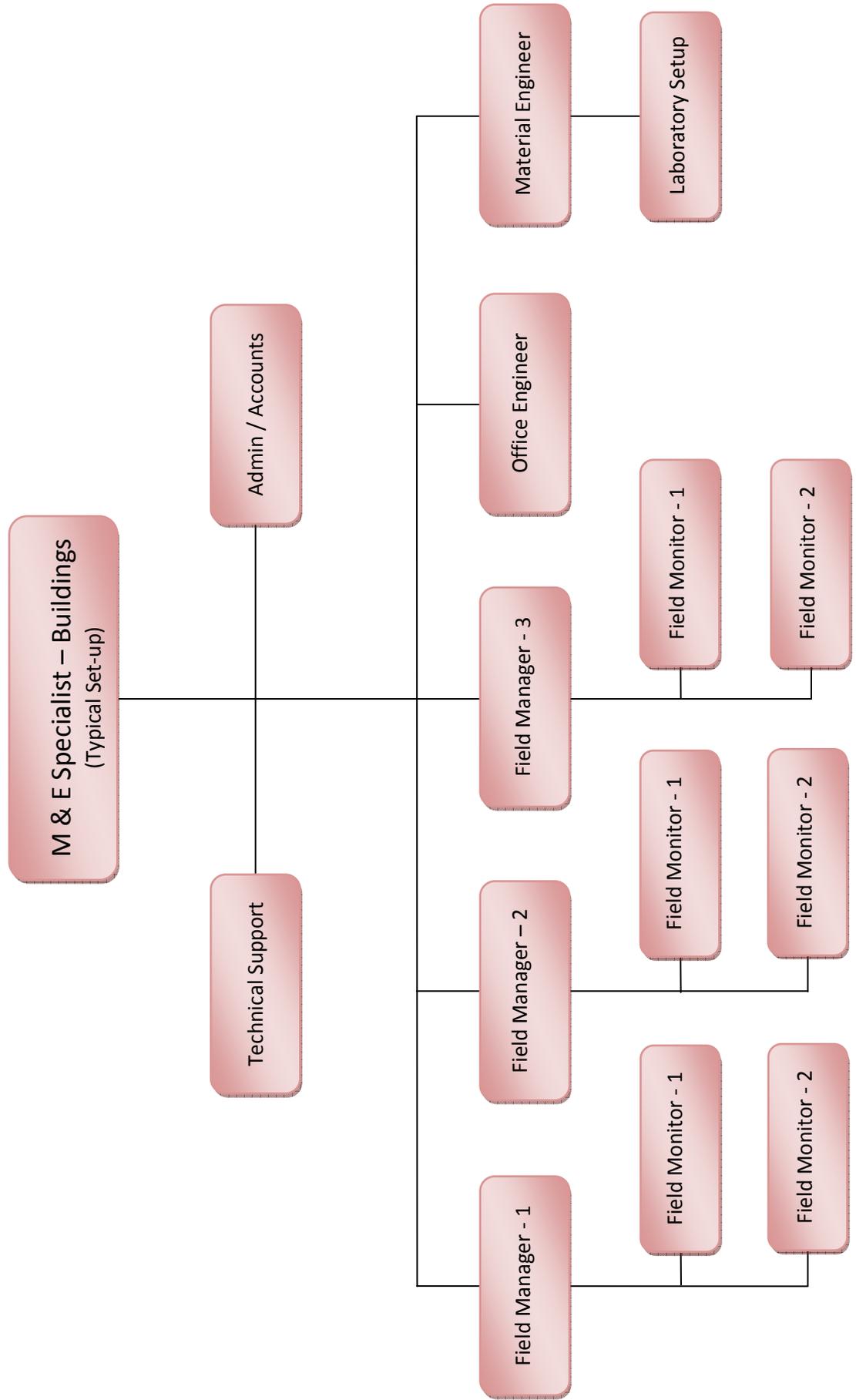
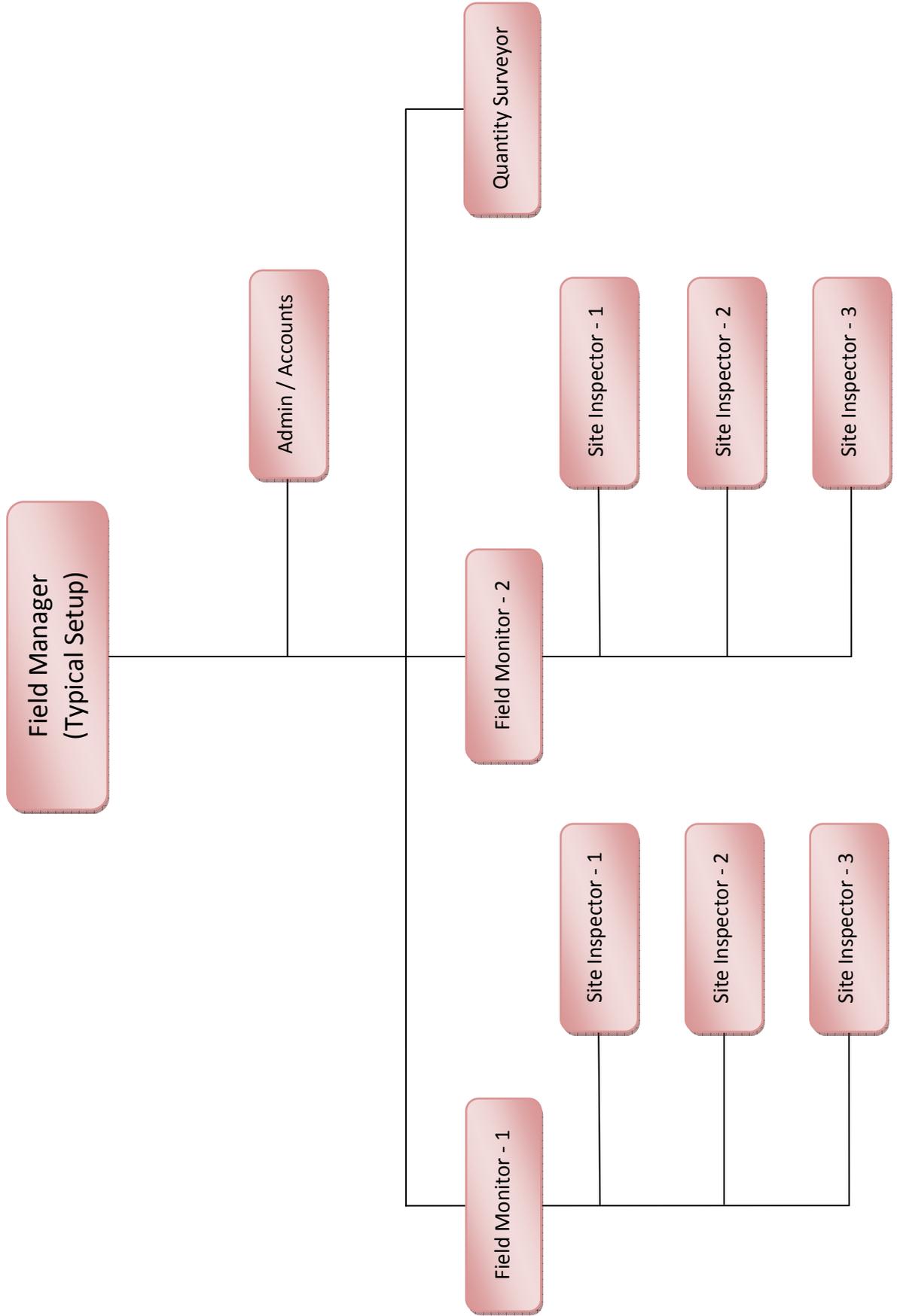


Figure 4.2: TEAM COMPOSITION-BUILDING COMPONENTS
USAID/PAKISTAN CONSTRUCTION MONITORING AND EVALUATION PROGRAM



**Figure 4.3: TYPICAL M&E SETUP –BUILDINGS
USAID/PAKISTAN CONSTRUCTION MONITORING AND EVALUATION PROGRAM**



4.1. M&E Setup for Peshawar, D.I. Khan, Malakand Division

Originally, 42 sites were declared suitable/feasible for reconstructions out of 100+ schools visited during validation/revalidation process. The breakup of suitable sites is given here under.

- DI Khan 27 Sites
- Swat 02 Sites
- Shangla 08 Sites
- Dir Lower 02 Sites
- Malakand 03 Sites

In the meeting held on May 17, 2013 at PaRRSA Office Peshawar, 24 schools were selected for PIL-1 out of 42 suitable sites, keeping in view the comparatively high enrollment & high future potential of the student. Further, 10 Schools were declared suitable for construction during the validation process of 21 alternate sites as discussed vide para 3.4. The breakup of 34 sites is as under;

- DI Khan 09 Sites (M&E Setup-01)
- Shangla 08 Sites (M&E Setup-02)
- Swat 02 Sites (M&E Setup-03)
- Dir Lower 02 Sites (M&E Setup-03)
- Malakand 03 Sites (M&E Setup-03)
- Peshawar 10 Sites (M&E Setup-04)

5. ITEMS REQUIRING ACTIONS

As stated in the Executive Summary, urgent action/decision of the concerned forums is required on the following points.

1. Fresh list of alternate schools as a replacement of unsuitable sites will be required to meet the approved scope of about 100+ schools. During the revalidation of 100+ schools, 72 schools have been declared unfeasible/unsuitable.
2. Formulation of a strategy for implementation of the schools construction needs to be finalized at the earliest.