United Nations Educational, Scientific and Cultural Organization.

United Nations Development Programme United Nations Development Group Iraq Trust Fund



# **COMPLETION REPORT FOR PROJECT:**

# Summary

| Participating UN Organisation:<br>UNESCO                               | Cluster:<br>Cluster B: Education and Culture            |
|------------------------------------------------------------------------|---------------------------------------------------------|
|                                                                        |                                                         |
| Project No. and Project Title:                                         | Project Location/Region/Province:                       |
| <b>B1-13:</b> Educational Management Information System (EMIS) in Iraq | MoE and 23 Directorates of Education in 18 Governorates |
| Reporting Period:                                                      | Report Number:                                          |
| 11 November 2004 – 31 December 2006                                    | 5                                                       |
|                                                                        |                                                         |
| Counterpart organisations / implementing partners:                     | Project cost:                                           |
| MoE and UNICEF                                                         | US \$1,500,000                                          |

| Abbreviations and acronyms:                                                   | Project Duration:                                                                                                  |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| MoE: Ministry of Education.<br>DoE: Directorate of Education.                 | 11 November 2004 – 31 December 2006                                                                                |
| MDGs: Millennium Development Goals.<br>EMIS: Education Management Information | Approval Date 11 <sup>th</sup> Nov-04<br>Start Date 11 <sup>th</sup> Nov-04                                        |
| System.                                                                       | End Date 30 <sup>th</sup> Jul-05                                                                                   |
| EFA: Education for All.<br>WB: World Bank                                     | 1 <sup>st</sup> Extension until 31 <sup>st</sup> Mar-06<br>2 <sup>nd</sup> Extension until 30 <sup>th</sup> Jun-06 |
| NDS: National Development Strategy                                            | 3 <sup>rd</sup> Extension until 30 <sup>th</sup> Sep-06<br>4 <sup>th</sup> Extension until 31 <sup>st</sup> Dec-06 |
| LAN: Local Area Network.<br>DGEP: Directorate General for Educational         | 4 <sup>th</sup> Extension until 31 <sup>st</sup> Dec-06                                                            |
| Planning                                                                      |                                                                                                                    |
| DGCI: Directorate General for<br>Communication and Information                |                                                                                                                    |

#### I. Purpose

# Main objectives and outcomes expected as per approved Project/Programme/project document:

#### **Development Goal:**

To provide the basic IT infrastructure needed for MoE and DoEs and establish an Education Information Management System (EMIS). This is one of the high priority projects of the Ministry of Education as outlined in the new publication "Education in Iraq: Current Situation and New Perspectives".

The project was discussed in detail with senior Government officials during a workshop held in Beirut, Lebanon, at UNESCO's Regional Office and was later discussed and approved by the Director General for Planning of the Ministry of Education. It was also discussed in detail with UNICEF and other Agencies working on EMIS related issues with the Ministry of Education.

#### Main Objectives:

- Developing and customizing EMIS software for the MoE.
- Training staff and building the capacity of MoE and DoEs to utilize the newly established system.
- Decentralizing data entry of all school census forms at the DoEs.

#### **Project Outcomes:**

- Creating the basic infrastructure for decentralizing data entry and data processing to the central MoE and the DoEs at the Governorate level. These units will be equipped with servers, personal computers, printers, scanners, LAN accessories and electricity generators.
- Customizing and developing the basic software package for immediate use by the DoEs for entry of schools data and by the MoE to establish a computerized EMIS.
- Developing the capacity of technical and professional staff at the MoE and the DoEs to utilize the EMIS software.

# Reference to how the programme/project related to the UN Assistance Strategy to Iraq and how it aimed to support Iraq national development goals and the Millennium Development Goals:

The Development Goal was to empower MoE and the Directorates of Education at the Governorate level to enter data, analyze results, develop educational indicators, solve educational problems, rationalize the use of resources and reduce inefficiencies in the education system.

The project related to the following UN and Iraqi Development Goals:

- EFA Goals: Progress towards better quality of education.
- NDS: National Development Strategy
- MDGs: Achieve universal primary education.
- NDS: Modernize the outdated education system.
- UN Assistance Strategy for Iraq (2005-2007): Support and inform policy development.

#### Project Management arrangements I: Organisation and Co-operation

UNICEF was the main international partner in this project. They assisted the MoE in printing and distributing of all school census forms used for the collection of data in 2004/2005 and 2005/2006, an important contribution that facilitated UNESCO's work.

UNESCO also sought the assistance of UNOPS for the provision of several services in the field, such as cash disbursements for the workshops organized in Baghdad, since UNESCO does not have a country office in Baghdad to perform the required tasks.

The capacity building programme, the development of training materials and the development of the EMIS software needed for the project were carried out through contracting experienced international consultants. The training was carried out partly in Baghdad and partly abroad in Jordan, Lebanon and Egypt.

#### Project Management Arrangements II: Procurement, Transportation and Monitoring

Supplies and equipment were procured through international bidding procedures via Headquarters and delivered through road transport. Commissioning and installation was carried out by contractors and sub contractors. (See Annex 3)

Most activities undertaken in Iraq were supervised by monitors hired by UNESCO to visit all sites within Iraq and submit progress reports on the various activities. Remaining activities continued under the direct supervision of the programme specialist and the management team.

#### II. Resources

Total approved budget and summary of resources used for the programme/project from the UNDG Iraq Trust Fund (and non-Trust Fund resources where applicable):

#### UNDG ITF funds received:

| Total Project Budget              | US\$ 1,500,000.00 |          |
|-----------------------------------|-------------------|----------|
| Total Commitment (end Dec 2006)   | US\$ 1,462,947.00 | (97.53%) |
| Total Disbursement (end Dec 2006) | US\$ 1,413,829.00 | (94.26%) |

Amount still available to the project as of December 31, 2006 is US\$ 37,053 (2.47% of total budget, see Annex 2 for further details)

In the final budget (Annex 2), it is indicated that major changes to Contracts budgeting were necessary since funds were not initially allocated for this item. During the project implementation it was found to be essential to sub-contract to companies and not only individual consultants, in order to facilitate the implementation of the project, particularly for the delivery mechanism, monitoring and procurement process.

For Project Assets see Annex 3

#### III. Results

# An assessment of the extent to which the programme/project component / programme /project has achieved the outcomes and outputs expected

The establishment of a computerized Educational Management Information System (EMIS) has always been an important objective of many Ministries of Education in developing countries. The first World Conference on 'Education for All' in Jomtien, Thailand 1990, recommended the establishment of EMIS at the Ministries of Education. The purpose was to help countries analyze educational data and develop educational indicators that would help identify the strengths and weaknesses of the education system and assist in developing national plans to overcome deficiencies. The joint UN/WB Assessments listed this project as one of the priority projects for the MoE.

The present project was designed as Phase I. The main objective was defined to develop the basic infra-structure at the MoE as well as at each Directorate of Education in all Governorates needed to collect school census data from all schools, enter the data and consolidate it all data into one Iraq database. These processes were to be carried out using customized software designed specifically for MoE in Iraq.

All planned activities which focussed on:

- Establishing the infra-structure at MoE and all DoEs
- Ensuring that processes and responsibilities for key staff at MoE and all DoEs were fully implemented, thus enabling the Iraqi MoE to produce a timely, accurate and reliable educational database for all of Iraq and a sub-databases for each DoE.

These databases are the essential pre-requisites for producing the statistical information that is needed for national planning. A core team of Iraqi Programmers at MoE in Baghdad was trained to use the developed software and acted as trainers for DoE staff. This achievement makes Iraq as one of few countries in the Arab Region that possess such a system.

In addition to the achievements of Phase I, the project designed and implemented several activities that were supposed to be carried out in a second follow-up phase. These were techniques used to analyze educational data, produce statistical reports and develop educational indicators. A core team of educational planning and statistics staff at MoE in Baghdad were also trained to perform all these processes and to train other staff including DoE staff.

The clear advantage of having such a system at the MoE with trained staff is to enable Iraq to produce annual educational statistics and educational indicators a few months after collection of statistics for the first time. These results will be readily available and will enable Governorates and MoE to develop reliable educational plans and make rational decisions about the educational needs in disadvantaged areas and qualitative or quantitative disparities. The results will also address EFA and MDG objectives. The time taken to enter data and produce results during the second cycle will be much shorter than the first. When all DoEs are functioning properly under normal conditions it will take only weeks compared with previous practices that used to require at least 18 months.

#### Main activities undertaken and achievements/ impacts:

- Workshop conducted in Beirut for the Director-General of Planning and 5 officials from the respective Directorate to design and develop the school census forms.
- Technical Training for 2 programmers and system analysts was conducted in Beirut on various programming languages and tools.
- Two Training workshops on LAN Administration were organized in Baghdad and Alexandria for 50 LAN administrators at the MoE and DoEs.
- Training workshops were also organized for MoE and DoE staff on data entry and training of 5 key IT personnel on SQL Reporting.
- Training of 33 statisticians on EFA statistics organized in Dead Sea/Jordan during 1 – 13 April 2006 in collaboration with UNICEF.
- Training of 30 MoE and DoE high level officials on the Planning and Management of the Education Sector held in Amman from 15 – 27 April 2006.
- Installation of IT Equipment at MoE and DoEs and establishment of LANs at 22 out of 23 governorates.
- Training of a Core Team of 5 Officials from MoE on the management and maintenance of Microsoft SQL Server 2000, the database structure of the EMIS Software and the use of queries and Reporting Services to extract reports and output out of the database.
- Training workshop targeting 17 Statisticians from DoEs and the core team from MoE on the use of SPSS in the production of statistical reports and indicators from the EMIS database.
- Training workshop in Baghdad on the use of the SPSS Software for 21 Statisticians following the previous one in Amman and undertaken by MoE staff who were trained in Amman.

# Implementation constraints, lessons learned from addressing these and knowledge gained from assessments, evaluations and studies that have taken place during the project:

The MoE and the DoEs have acquired adequate training to perform all the technical work needed to collect and enter data at decentralized level, to process data, analyze it and produce technical work.

However, the division of labour between the two DGs in relation to EMIS field offices, has resulted in a lack of coordination and cooperation between the DG of Communication and Information (established during the project) and various divisions of the MoE. Control and monitoring of EMIS related activities between the MoE and DoE ought to be institutionalized and better coordination must be established in order to develop a National Database.

The challenge now is for the MoE and DoE team to complete a full cycle of these activities. Sufficient practice needs to be sustained in order for the training to be effective and the acquired skills through training to be sustained.

Furthermore, MoE needs to establish a mechanism to ensure regular and periodic follow up of EMIS activities between central MoE and DoEs so as to ensure the establishment of a consolidated Database for data covering all Governorates.

#### Key partnerships and inter-agency collaboration, impact on results:

The key partners in this project are MoE and UNICEF with whom the project is jointly implemented and activities undertaken by each agency are closely inter-linked and complementary to each other. The Planning Unit of the Ministry of Education has been assigned the responsibility to organize the data collection and analysis at the governorate level.

An EMIS Coordination Group including UNICEF, UNESCO, USAID and WB is meeting on a regular basis in order to coordinate the efforts of all stakeholders working on the EMIS in Iraq. AN EMIS Matrix in which the main actions to be taken for establishing the EMIS are indicated, together with the responsible partner for each action has been developed and is regularly updated.

With regard to the impact on results, the EMIS project will contribute to the decentralization of the education sector through the empowerment of governorates. Each DoE will be fully equipped with relevant hardware and software and provided training for 2 technicians and 20 data entry staff.

# Highlights and cross cutting issues pertinent to the results e.g. gender disaggregation, policy engagement and participation of the public:

DoE staff was given preliminary training to collect, enter and consolidate their data into a Governorate level database. They were also trained to perform reporting services and analysis of their own data and when able to do this efficiently, they will be achieving real decentralization. The impact of such skills will be reflected in addressing existing geographical disparities and addressing the issues of universalization of basic education,

raising enrolment rates and reducing gender disparities.

#### IV. Follow up actions and sustainability

Priority actions that should be supported/implemented following completion of project to build on achievements and partnerships rectify shortcomings encountered and use the lessons learned during the project with strong emphasis on achieving sustainability of the outcomes:

To ensure the sustainability of project outcomes, the MoE ought to take serious decisions to require ALL DoEs to complete the data entry process for 2004/2005 to establish the first educational database in Iraq. Subsequently, the collected data for the last academic year 2005/2006 and the current year 2006/2007 can be entered by updating the first database. Thus Iraq will have three consecutive years of data. The process of data entry for these two years will take only a fraction of the original time taken to establish the database for the year 2004/2005.

While this process is being completed, MoE should mobilize and coordinate the human resources who acquired the necessary skills through this project at the Central and to some extent Governorate level, produce educational indicators which can then be used to identify system problems. This will enable MoE and DoEs to develop strategies and address problems. Only then will the outcomes of the project be realized. This action will be a necessary first step towards the institutionalization and sustainability of the new system.

These efforts can be supported by follow up actions from UNESCO Iraq Office when the MoE trained personnel complete one cycle of the above mentioned processes; including the publication of annual educational statistics and education indicators for every Governorate and for all Governorates combined. Further training is needed at Governorate level in the analysis of data, report generation, development of indicators and development of educational plans to address identified educational problems or disparities. This type of training should be provided to a large number of persons when the working conditions at MoE and DoEs return to normal.

MoE staff will also need additional technical and advanced training on the developed EMIS software to enable them to modify the source code. Also, educational planning personnel will need further training in utilizing output of the EMIS system in developing educational plans and solving educational problems.

Another critical action needed for program sustainability is the functioning of an EMIS system. At present, there seems to be no clear definition of responsibilities and accountability system regarding the role of the key units at MoE who are in charge of EMIS activities, namely the DGEP and DGCI. Also there seems to be no clear responsibility and accountable relationship between these two units and the DoEs in the field. This requires a serious review to ensure compliance with EMIS schedules and operations. The absence of a clear division of labour and accountability was a major reason for observed delays in many project activities, especially the data entry and data validation activities at the DoEs and between DoEs and MoE.

Indication of major adjustments in the strategies, targets or key outcomes and outputs:

It was mentioned earlier that various Phase II activities were implemented during Phase I using surplus funds. Such actions facilitate the achievement of project outcomes when additional technical and capacity building activities are implemented.

#### Estimated Budget required:

It is difficult at this time to estimate the funds needed for the follow up actions until the DoEs determine the number of trainees who need the above-mentioned training. The cost will also depend on whether the training is carried out in Iraq or outside Iraq, as was the case in the present project. However, an initial estimate for the cost of a moderate training program is between \$ 300,000 and \$ 400,000.

It is recommended here that institutional and organizational issues related to EMIS functioning mentioned above in Section IV be addressed before a decision is made to develop follow up actions for this project.

| Annex 1 Key Performance Indicators – | Log Frame Matrix |
|--------------------------------------|------------------|
|--------------------------------------|------------------|

| Objectives                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Measurable<br>indicators                                                                                                                                                                                                                                               | Means of verification                                                                                                                                                                                                                                                                                                                                   | Outcomes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Assisting the central<br>Ministry of Education<br>(MoE) and the<br>Directorates of<br>Education (DoEs) in Iraq<br>to improve the<br>accessibility, relevance,<br>quality and efficiency of<br>education through the<br>institutionalization of a<br>system to support<br>informed decision<br>making.<br>Develop EMIS at the<br>MoE and empower MoE<br>and the Directorates of<br>Education (DoE) at the<br>Governorate level to<br>enter data, analyze<br>results, develop<br>educational indicators,<br>solve educational<br>problems, rationalize the<br>use of resources and<br>reduce inefficiencies in<br>the education system | The<br>establishment of<br>an Educational<br>Database at the<br>MoE for use in<br>educational<br>planning,<br>distribution of<br>resources to all<br>Governorates,<br>identification of<br>gender and<br>regional<br>disparities and<br>other necessary<br>indicators. | MoE receives from<br>each DoE its<br>database either<br>electronically or on<br>CDs.<br>Educational<br>Reports in the form<br>of educational<br>statistical tables<br>and lists of<br>educational<br>indicators can be<br>readily available<br>when the database<br>is analyzed at<br>National,<br>Governorate,<br>district and sub-<br>district level. | The MoE and the DoEs in Iraq<br>have been provided with a<br>system capable of providing<br>timely, accurate and reliable<br>data to produce educational<br>indicators needed to develop<br>rational planning and solving<br>major educational problems at<br>national as well as sub-<br>national levels.<br>General Educational<br>indicators, including EFA<br>indicators will be improved<br>when the developed<br>educational plans are<br>implemented and issues of<br>access and equity in Basic<br>and General education will be<br>addressed. |

| and thus achieve EFA<br>goals and MDGs in both<br>quantitative and<br>qualitative terms.                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immediate Objectives:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Establish basic<br>infrastructure needed for<br>data collection and data<br>processing as follows:<br>Customize operational<br>computer software for<br>immediate use by the<br>MoE in Iraq.<br>Provide computers and<br>needed software to<br>MoE 21 DoEs<br>Train 48 local trainers<br>and prepare them to<br>ensure the internal<br>training of MoE and<br>directorates staff on data<br>entry<br>Enable DoEs to collect<br>school census data<br>starting in the year<br>2004/2005 and annually<br>after that. | The developed<br>software was<br>tested and<br>approved was<br>used in entering<br>captured data<br>from all schools<br>in Iraq for the<br>year 2004-<br>2005.<br>LANs were<br>established at<br>all 23 DoEs.<br>Training was<br>done for<br>technical and<br>Educational<br>planning staff at<br>MoE and DoEs. | Testing the proper<br>functioning of the<br>developed<br>software.<br>Designing proper<br>and relevant<br>workshops for the<br>required training<br>and enrol<br>adequate number<br>of participants.<br>Testing trainees<br>and certifying that<br>they have<br>acquired adequate<br>skills.<br>Measuring time<br>needed to gather<br>and process data<br>using the EMIS<br>software<br>compared to that<br>used previously by<br>MoE staff. | MoE and DoEs adopted the<br>specifically customized EMIS<br>software.<br>MoE and DoEs possess<br>operational infrastructure for<br>processing data in a fraction of<br>the time that they used to<br>need.<br>Capability exists now at the<br>MoE and DoE to utilize the<br>customized software and<br>process data in a timely<br>manner.<br>More trained staff were<br>provided with training than<br>planned.<br>Training from Phase II of the<br>project was done during this<br>phase, thus enabling staff to<br>acquire necessary skills to<br>analyze data and produce<br>reports and indicators. |
| Outputs:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| The basic infrastructure<br>for decentralizing the<br>functions of data entry<br>and data processing has<br>been established at the<br>central MoE and the<br>DoEs at the Governorate<br>level.<br>A basic software<br>package was designed<br>for Iraq and developed<br>for immediate use by the<br>DoEs for the entry of<br>schools data as well as<br>by the MoE to establish<br>a computerized EMIS.                                                                                                           | Forms<br>developed for<br>collecting data<br>from schools<br>were being<br>distributed and<br>collected data<br>entered at the<br>DoE level.<br>Completion of<br>data entry at<br>DoEs and<br>verification of<br>data entry being<br>done<br>accurately.<br>Capability of<br>technical Staff                    | Periodic checking<br>of the work done<br>by the trained staff<br>at MoE and DoEs.<br>Use of specific<br>software designed<br>to check the<br>accuracy of<br>entered data.<br>Assess the degree<br>to which<br>participants in the<br>training activities<br>acquire the<br>required skills.                                                                                                                                                  | The MoE and DoEs have<br>been enabled to produce<br>timely, accurate reliable<br>educational databases. These<br>databases are the essential<br>pre-requisites for producing<br>the statistical information<br>needed for national planning.<br>A core team of Iraqi<br>Programmers and<br>Planners/statisticians at MoE<br>in Baghdad were trained to<br>use the developed software<br>and acted as trainers for DoE<br>staff.<br>In addition to what was<br>supposed to be achieved in                                                                                                                 |
| The capacity of<br>Technical and<br>professional staff of the<br>MoE and the DoEs to<br>utilize and maintain the<br>EMIS software was                                                                                                                                                                                                                                                                                                                                                                              | technical Staff<br>at MoE to<br>respond to<br>requests for<br>support from<br>DoE staff during                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                              | supposed to be achieved in<br>Phase I, the present project<br>designed and implemented<br>several activities that were<br>supposed to be done in a<br>second follow-up phase.                                                                                                                                                                                                                                                                                                                                                                                                                            |

| II         |                 | n                              |
|------------|-----------------|--------------------------------|
| developed. | data entry.     | These activities were          |
| -          |                 | techniques used to analyze     |
|            | Completion of   | educational data; produce      |
|            |                 |                                |
|            | data entry task | statistical reports develop    |
|            | in a few months | educational indicators.        |
|            | rather than     |                                |
|            | more than a     | Annual educational statistics  |
|            |                 | and educational indicators can |
|            | year.           |                                |
|            |                 | now be produced by MoE staff   |
|            |                 | in a few months ( or weeks)    |
|            |                 |                                |
|            |                 | These results will be readily  |
|            |                 | available and will enable      |
|            |                 |                                |
|            |                 | Governorates and MoE to        |
|            |                 | develop reliable educational   |
|            |                 | plans and make rational        |
|            |                 | decisions to addressed the     |
|            |                 | educational needs of           |
|            |                 |                                |
|            |                 | disadvantaged areas and        |
|            |                 | address issues of qualitative  |
|            |                 | and quantitative disparities,  |
|            |                 | thus addressing the objectives |
|            |                 | of EFA and MDGs.               |
|            |                 |                                |

# Annex 2 Project Costs

| Category                                                                   | UNDG ITF<br>approved<br>budget | Actual Cost  | Percentage of Approved | Budget<br>Revision<br>approved | Percentag<br>e<br>of revision |
|----------------------------------------------------------------------------|--------------------------------|--------------|------------------------|--------------------------------|-------------------------------|
| 1. Personnel<br>including staff and<br>consultants *                       | 220,943                        | 143,517.69   | 65%                    | 146,619.00                     | 98%                           |
| 2. Contracts<br>including companies,<br>professional services<br>and rants | 0                              | 154,500.00   |                        | 155,064.82                     | 100%                          |
| 3. Training                                                                | 91,185                         | 176,982.46   | 194%                   | 177,902.18                     | 99%                           |
| 4. Transport                                                               |                                |              |                        |                                |                               |
| 5. Supplies and<br>commodities                                             | 70,300                         | 8,300.00     | 12%                    | 8,300.00                       | 100%                          |
| 6. Equipment                                                               | 916,950                        | 868,225.15   | 95%                    | 869,950.00                     | 100%                          |
| 7. Travel                                                                  | 14,650                         | 12,482.30    | 85%                    | 13,185.00                      | 95%                           |
| 8. Security                                                                | 18,972                         | 3,611.00     | 19%                    | 28,038.00                      | 13%                           |
| 9. Miscellaneous                                                           | 92,000                         | 28,321.09    | 31%                    | 30,848.00                      | 92%                           |
| 10. Agency<br>Management Support                                           | 75,000                         | 67,008.04    | 89%                    | 70,093.00                      | 96%                           |
| Total Expenditure                                                          | 1,500,000.00                   | 1,465,490.32 | 98%                    | 1,500,000.00                   | 98%                           |

\* 2 International and 8 National staff members were used for this project

Annex 3 List of Contract (by procurement method)

| #      | Contractor (Supplier)                                         | Contract No.                    | Brief description of<br>Goods/Services                                        | Total<br>Amount<br>(USD) | Goods/Services delivered to                                     |
|--------|---------------------------------------------------------------|---------------------------------|-------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------|
| 1      | ZAK Solutions for Computer Systems<br>SafatKuwait             | C1-13 – EMIS<br>Computers       | 23 Servers, 470 PCs, 118<br>Printers, 2 UPSs, 46<br>Scanners, LAN Accessories | \$ 640,043               | Ministry of Education – Iraq<br>Central warehouse of MoE        |
| 2      | ZAK Solutions for Computer Systems<br>SafatKuwait             | IRQ/CON/05/89                   | 2 Servers, 40 PCs, 6 Printers,<br>42 UPSs, 4 Scanners                         | \$ 68,569                | Ministry of Education – Iraq<br>Central warehouse of MoE        |
| 3      | Al-Mustafa<br>Iraq Baghdad                                    | IRQ/PO/05/151                   | Office Equipment (200<br>computer tables and 200<br>chairs)                   | \$ 12,600                | Ministry of Education – Iraq<br>Central warehouse of MoE        |
| 4      | New Horizons Computer Learning<br>Centers<br>Alexandria Egypt | IRQ/PO/06/01                    | Microsoft Training on Network<br>Administration                               | \$ 20,800                | 52 Officials from MoE and DoEs                                  |
| 5      | New Horizons Ltd<br>Baghdad Iraq                              | IRQ/PO/06/20 &<br>IRQ/PO/06/21  | Installation of PCs and<br>Servers                                            | \$ 20,950                | MoE and DoEs                                                    |
| 6      | Compubase International<br>Amman Jordan                       | IRQ/PO/06/44                    | Visual Studio and SQL<br>Training                                             | \$ 2,260                 | 10 MoE Officials                                                |
| 7      | Nahj Tech Co.<br>Baghdad Iraq                                 | IRQ/PO/06/065                   | Installation of PCs and<br>Servers                                            | \$ 18,000                | 9 DoEs                                                          |
| 8      | AlGaith Center<br>BaghdadIraq                                 | IRQ/PO/06/066&<br>IRQ/PO/06/131 | Installation of PCs and Servers                                               | \$ 15,150                | 8 DoEs                                                          |
| 9      | New Tech. Co.<br>Baghdad Iraq                                 | IRQ/PO/06/069                   | Office Equipment (50<br>Computer Desks and 50<br>Chairs)                      | \$ 2,750                 | Ministry of Education –<br>Central Warehouses –<br>Baghdad Iraq |
| 1<br>0 | NahjTech. Leading Technology<br>Baghdad Iraq                  | IRQ/PO/06/072                   | Local Area Network Training                                                   | \$ 13,000                | 52 Officials from MoE and DoEs                                  |
| 1<br>1 | Al-Thakira for IT & Software Co. Ltd.<br>Baghdad Iraq         | IRQ/PO/06/124                   | VSAT Satellite Terminal                                                       | \$ 8,650                 | Ministry of Education –<br>Baghdad Iraq                         |

Output 1: The basic infrastructure for decentralizing the functions of data entry and data processing will be established at the central MoE and the DoEs at Governorate level. These units will be equipped with servers, personal computers, printers, scanners, LAN accessories and electricity generators.

| Description of the<br>Performance Indicators                                                                                                                                                   | Base<br>Lines | Targets                                                | Data / Information<br>to be collected                                                                                                                           | When<br>(should data<br>/information<br>be collected) | Methods of<br>data /<br>information<br>collection      | Responsible<br>person (for<br>data /<br>information<br>collection) | Comments<br>(including<br>'why' collect<br>this data)  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------|
| PI 1.1.1 Provide MoE's General<br>Directorate for Statistics and<br>Planning (GDSP) and the General<br>Directorate of Information<br>Technology (GDIT) with Servers<br>and Personal Computers. | 00            | GDSP and GDIT<br>at the Ministry of<br>Education (MoE) | 1 Main Server for<br>GDSP and 1 main<br>server for GDIT<br>50 PCs for DGSP<br>and 50 PCs for GDIT                                                               | Upon delivery<br>of equipment<br>from supplier        | Count items<br>when received<br>and installed          | Project<br>Manager                                                 | Information to<br>be used for<br>progress<br>reporting |
| PI 1.1.2 Provide GDSP and GDIT<br>with printers , scanners, UPSs<br>consumables.                                                                                                               | 00            | GDSP and GDIT<br>at the Ministry of<br>Education(MoE)  | 2 HP Laser jet 2430t<br>Printers for GDSP<br>and GDIT<br>2 HP Laser jet 1320<br>Printers<br>2 Deskjet Printers<br>100 UPS 500 VA<br>2 UPS 1500 VA<br>2 Scanners | Upon delivery<br>of equipment<br>from supplier        | Count items<br>when received<br>and installed          | Project<br>Manager                                                 | Information to<br>be used for<br>progress<br>reporting |
| PI 1.1.3 ProvideGDSP and GDIT with LAN accessories and consumables.                                                                                                                            | 00            | GDSP and GDIT<br>at the Ministry of<br>Education(MoE)  | 2 Set of LAN<br>accessories<br>Toners for printers                                                                                                              | Upon delivery<br>of equipment<br>from supplier        | Count items<br>when received<br>and installed          | Project<br>Manager                                                 | Information to<br>be used for<br>progress<br>reporting |
| PI. 1.1.4 Provide 1 electricity generator to the MoE.                                                                                                                                          | 00            | GDSP and GDIT<br>at the Ministry of<br>Education(MoE)  | 1 Generator for MoE                                                                                                                                             | Upon delivery<br>of generator<br>from supplier        | Observe<br>generator<br>when received<br>and installed | Project<br>Manager                                                 | Information to<br>be used for<br>progress<br>reporting |
| PI 1.1.5 Installation of Hardware                                                                                                                                                              | 00            | GDSP and GDIT                                          |                                                                                                                                                                 | When                                                  | Site visit and                                         | Project                                                            | Information to                                         |

| in the GDSP and GDIT.                                   |    | at the Ministry of<br>Education(MoE) | installation is completed                      | checking of installation                      | Manager            | be used for<br>progress<br>reporting             |
|---------------------------------------------------------|----|--------------------------------------|------------------------------------------------|-----------------------------------------------|--------------------|--------------------------------------------------|
| PI 1.1.6 Installation of Software in the GDSP and GDIT. | 00 | GDSP and GDIT at the MoE             | When software<br>is completed<br>and installed | Site visit and<br>checking of<br>installation | Project<br>Manager | Information<br>used for<br>progress<br>reporting |

Output– 1: The basic infrastructure for decentralizing the functions of data entry and data processing will be established at the central MoE and the DoEs at the Governorate level. These units will be equipped with servers, personal computers, printers, scanners, LAN accessories electricity generators.

| Description of the<br>Performance Indicators                                                     | Base<br>Lines | Targets                                   | Data / Information<br>to be collected                                                                                        | When (should<br>data /information<br>be collected)                             | Methods of<br>data /<br>information<br>collection | Responsible<br>person (for<br>data /<br>information<br>collection) | Comments<br>(including<br>'why' collect<br>this data)  |
|--------------------------------------------------------------------------------------------------|---------------|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------|
| PI 1.2.1 Provide 23 DoEs at the Governorate level with servers and personal computers.           | 00            | 21 DoEs at<br>the<br>Governorate<br>level | 1 Main Server and 20<br>PCs for each DoE                                                                                     | Upon delivery of<br>equipment from<br>supplier                                 | Count items<br>when<br>received and<br>installed  | Project<br>Manager                                                 | Information to<br>be used for<br>progress<br>reporting |
| PI 1.2.2 Provide 23 DoEs at the Governorate level with printers, scanners, UPSs and consumables. | 00            | 21 DoEs at<br>the<br>Governorate<br>level | EACH DoE receives :<br>2 HP Laser jet 1320<br>Printers, 2 Deskjet<br>Printers, 20 UPS 500<br>VA, 1 UPS 1500 VA<br>-1 Scanner | Upon delivery of<br>equipment from<br>supplier                                 | Count items<br>when<br>received and<br>installed  | Project<br>Manager                                                 | Information to<br>be used for<br>progress<br>reporting |
| PI 1.2.3 Provide 23 DoEs at the Governorate level with LAN accessories and consumables.          | 00            | 21 DoEs at<br>the<br>Governorate<br>level | Each DoE receives:<br>1 Set of LAN<br>accessories<br>Toners for printers                                                     | Upon delivery of<br>equipment from<br>supplier                                 | Count items<br>when<br>received and<br>installed  | Project<br>Manager                                                 | Information to<br>be used for<br>progress<br>reporting |
| PI. 1.2.4 Provide 1 electricity generator to the MoE.                                            | 00            | 4 DoEs at 4<br>Governorates               | 1 Generator each for<br>4 DoEs                                                                                               | Upon delivery of generators from supplier                                      | Count items<br>when<br>received and<br>installed  | Project<br>Manager                                                 | Information to<br>be used for<br>progress<br>reporting |
| PI. 1.2.5 Installation of Hardware at the 23 DoEs.                                               | 00            | 21 DoEs at<br>Governorate<br>level        |                                                                                                                              | When installation is<br>complete and<br>software is completed<br>and installed | Site visit and checking of installation           | Project<br>Manager                                                 | Information to<br>be used for<br>progress<br>reporting |
| PI. 1.2.6 Installation of Software at the 23 DoEs.                                               | 00            | 21 DoEs at<br>Governorate<br>level        |                                                                                                                              | When installation is<br>done and software is<br>completed and<br>installed     | Site visit and checking of installation           | Project<br>Manager                                                 | Information to<br>be used for<br>progress<br>reporting |

Output- 2: A computerized EMIS package will be customized and developed for immediate use by the DoEs for the purpose of preserving schools data.

| Description of the Performance<br>Indicators                                                                                               | Base<br>Lines | Targets                         | Data /<br>Information<br>to be<br>collected | When<br>(should data<br>/information<br>be collected) | Methods of data /<br>information<br>collection  | Responsible<br>person (for<br>data /<br>information<br>collection) | Comments<br>(including<br>'why' collect<br>this data)  |
|--------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------|---------------------------------------------|-------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------|
| PI 2.1 Assist MoE to develop a codebook for statistical data                                                                               | 00            | GDSP at<br>MoE                  | Software<br>developed<br>and delivered      | At beginning of<br>project<br>implementation          | Obtain electronic copy<br>of completed codebook | Project<br>manager                                                 | Information to<br>be used for<br>progress<br>reporting |
| PI 2.2 Assist MoE in developing new<br>School data collection instruments for all<br>types of schools and teacher training<br>institutions | 00            | GDSP.<br>at MoE                 | Forms<br>prepared and<br>printed            | At beginning of<br>project<br>implementation          | Obtain electronic copy<br>of completed forms    | Project<br>manager                                                 | Information to<br>be used for<br>progress<br>reporting |
| PI 2.3 Develop customized EMIS software<br>for data entry and for production of reports<br>and development of educational<br>indicators.   | 00            | GDSP,<br>GDIT<br>and 21<br>DoEs | Software<br>developed<br>and delivered      | Software<br>completed and<br>tested                   | Obtain electronic copy<br>of completed software | Project<br>manager                                                 | Information to<br>be used for<br>progress<br>reporting |

Output – 3: Develop the capacity of Technical and professional staff of the MoE and the DoEs to utilize and maintain the EMIS software

| Description of the Performance<br>Indicators                                                                                                                                                                                                 | Base<br>Lines | Targets                                                 | Data /<br>Information<br>to be<br>collected | When<br>(should data<br>/information<br>be collected)             | Methods of data<br>/ information<br>collection | Responsibl<br>e person<br>(for data /<br>information<br>collection) | Comments<br>(including<br>'why' collect<br>this data)  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------|------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------|
| PI 3.1.1 Training key staff from GDSP to develop coding system for statistical data and develop school census forms                                                                                                                          | 00            | 5 GDSP<br>staff at<br>MoE                               | 4 GDSP<br>officials<br>trained              | At beginning of project                                           | When workshops<br>are being<br>conducted       | Project<br>staff/Trainers                                           | Information to<br>be used for<br>progress<br>reporting |
| PI 3.1.2 Conduct training workshops for<br>Key staff from GDIT and 2 staff from each<br>DoE on "Dot Net" programming techniques<br>and applications, utilization of the EMIS<br>software and on networking and database<br>management skills | 00            | 5 GDIT<br>staff at<br>MoE<br>2 staff from<br>each DoE   | 5 GDIT<br>officials<br>trained              | When training<br>is completed<br>during project<br>implementation | When workshops<br>are being<br>conducted       | Project<br>staff/Trainers                                           | Information to<br>be used for<br>progress<br>reporting |
| PI .3.1.3 Conduct a training of trainers for<br>data entry and LAN Administration for GDIT<br>staff and for 2 staff from each DoE                                                                                                            | 00            | 5 GDIT<br>staff from<br>MoE<br>2 staff from<br>each DoE | 4 from GDIT<br>trained                      | After software<br>is developed<br>and installed at<br>DoEs        | When workshops<br>are being<br>conducted       | Project<br>staff/Trainers                                           | Information to<br>be used for<br>progress<br>reporting |

Output – 4: Develop the capacity of Technical and Professional staff of the MoE and the DoEs to utilize and maintain the EMIS software

| Description of the Performance<br>Indicators                                                                                                                                                                      | Base<br>Lines | Targets                                    | Data /<br>Information<br>to be<br>collected                               | When<br>(should<br>data /<br>information<br>be<br>collected)                     | Methods of data<br>/ information<br>collection          | Responsibl<br>e person<br>(for data /<br>information<br>collection) | Comments<br>(including<br>'why' collect<br>this data)  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------|
| PI 3.2.1 Conduct training workshops for 20 data entry staff from each of the 23 DoEs to utilize the EMIS software and perform data entry.                                                                         | 00            | 20 data<br>entry staff<br>from each<br>DoE | 21 x20 data<br>entry staff from<br>the 23 DoEs                            | After software<br>is developed<br>and installed<br>at DoEs                       | After software is<br>developed and<br>installed at DoEs | Project<br>staff/Trainers                                           | Information to<br>be used for<br>progress<br>reporting |
| PI 3.2.2 Conduct Training workshops for<br>staff of GDSP, GDIT and the 23 DoE in the<br>utilization of the software and analysis of<br>data and production of statistical reports.                                | 00            | Key staff<br>from<br>GDSP                  | 4 staff from<br>GDSP<br>5 staff from<br>GDIT<br>1 person from<br>each DoE | Towards the<br>end of the<br>project when<br>samples of<br>data are<br>collected | After software is<br>developed and<br>installed at DoEs | Project<br>staff/Trainers                                           | Information to<br>be used for<br>progress<br>reporting |
| PI 3.2.3 Conduct training workshops for 2<br>staff from each DoE on "Dot Net"<br>programming techniques and applications,<br>utilization of the EMIS software and on<br>networking and database management skills | 00            | 2 staff from<br>each DoE                   | 2x21 staff from<br>DoEs                                                   | After software<br>is developed<br>and installed<br>at DoEs                       | After software is<br>developed and<br>installed at DoEs | Project<br>staff/Trainers                                           | Information to<br>be used for<br>progress<br>reporting |

#### Data and Information Collection Sheet for M&E for Outputs: EMIS

Output – 1: Establish the basic infrastructure for decentralizing the functions of data entry, data processing and data analysis at the 23 Directorates of Education.

| Description of the Performance Indicators                                                                                                                                             | Planned (Targets) | Actual           | Comments                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|-----------------------------------------------------------------------------------------|
| PI 1.1.1 Provide MoE's General Directorate for Statistics and<br>Planning (GDSP) and the General Directorate of Information<br>Technology (GDIT) with Servers and Personal Computers. | Nov – Dec 2004    | June 2005        |                                                                                         |
| PI 1.1.2 Provide GDSP and GDIT with printers, scanners, UPSs and consumables.                                                                                                         | Nov – Dec 2004    | June – July 2005 |                                                                                         |
| PI 1.1.3 Provide GDSP and GDIT with LAN accessories and consumables.                                                                                                                  | Nov – Dec 2004    | June 2005        |                                                                                         |
| PI. 1.1.4 Provide 1 electricity generator to the MoE.                                                                                                                                 | Nov – Dec 2004    | June 2005        |                                                                                         |
| PI 1.1.5 Installation of Hardware in the GDSP and GDIT.                                                                                                                               | Nov – Dec 2004    | May 2006         | Distribution of Equipment to Governorates was delayed due to security situation in Iraq |
| PI 1.1.6 Installation of Software in the GDSP and GDIT.                                                                                                                               | March 2005        | May 2006         | Correction and debugging of software was delayed by programmers in Saudi Arabia         |

## Data and Information Collection Sheet for M&E for Outputs: EMIS

Output – 1: Establish the basic infrastructure for decentralizing the functions of data entry, data processing and data analysis at the 23 Directorates of Education.

| Description of the Performance Indicators                                                    | Planned (Targets) | Actual           | Comments                                                                                |
|----------------------------------------------------------------------------------------------|-------------------|------------------|-----------------------------------------------------------------------------------------|
| PI 1.2.1 Provide 23 DoEs at the Governorate level with servers and personal computers.       | Nov – Dec 2004    | June 2005        |                                                                                         |
| PI 1.2.2 Provide 23 DoEs at the Governorate level with printers, scanners, UPSs consumables. | Nov – Dec 2004    | June – July 2005 |                                                                                         |
| PI 1.2.3 Provide 23 DoEs at the Governorate level with LAN accessories and consumables.      | Nov – Dec 2004    | June 2005        |                                                                                         |
| PI. 1.2.4 Provide 4 electricity generator to 4 DoEs.                                         | Nov – Dec 2004    | June 2005        |                                                                                         |
| PI. 1.2.5 Installation of Hardware at the 23 DoEs.                                           | Nov – Dec 2004    | May 2006         | Distribution of Equipment to Governorates was delayed due to security situation in Iraq |
| PI 1.1.6 Installation of Software in the 23 DoEs.                                            | Nov – Dec 2004    | May 2006         | Correction and debugging of software was delayed by programmers in Saudi Arabia         |

### Data and Information Collection Sheet for M&E for Outputs: EMIS

Objective – 2: Customize operational computer software for immediate use by the MoE and the DoE for entry of schools data for establishing a computerized EMIS.

| Description of the Performance Indicators   PI 2.1 Assist MoE to develop a codebook for statistical data                          | Planned (Targets)<br>Sept 2004 | Actual<br>Oct 2004      | Comments                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| PI 2.2 Assist MoE in developing new School data collection instruments for all types of schools and teacher training institutions | Sept 2004                      | Oct 2004                |                                                                                                                                        |
| PI 2.3 Develop customized EMIS software for data entry and for production of reports and development of educational indicators.   | Dec. 2004                      | March 2005<br>July 2006 | In April 2006, MoE requested several<br>revisions and corrections to be made on<br>Software. Development was completed in July<br>2006 |

#### Data and Information Collection Sheet for M&E for Outputs: EMIS

Objective – 3: Develop the capacity of Technical and professional staff of the MoE and the DoEs to utilize and maintain the software

| Description of the Performance Indicators                                                                                                                                                                                              | Planned (Targets)    | Actual                                              | Comments                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| PI 3.1.1 Training key staff from GDSP to develop coding system for statistical data and develop school census forms                                                                                                                    | Sept 2004            | Oct 2004                                            |                                                                                                                         |
| PI 3.1.2 Conduct training workshops for Key staff from GDIT<br>and 2 staff from each DoE on "Dot Net" programming<br>techniques and applications, utilization of the EMIS software and<br>on networking and database management skills | Oct 2004<br>Jan 2005 | Oct 2004<br>Jan 2005<br>Feb 2006<br>July, Aug. 2006 | Additional training activities were organized<br>due to changes in staff and addition of<br>activities from<br>Phase II |
| PI .3.1.3 Conduct a training of trainers for data entry and LAN Administration for GDIT staff and for 2 staff from each DoE                                                                                                            | Dec 2004             | Feb 2006<br>May 2006                                | Technical training was delayed awaiting the<br>corrections to the software                                              |

# Monitoring and Evaluation Plan for Outputs: EMIS

Output – 3: Develop the capacity of Technical and Professional staff of the MoE and the DoEs to utilize and maintain the EMIS software

| Description of the Performance Indicators                                                                                                                                                              | Planned (Targets)    | Actual                                         | Comments                                                                                                                                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| PI 3.2.1 Conduct training workshops for 20 data entry staff from each of the 23 DoEs to utilize the EMIS software and perform data entry.                                                              | Sept 2004            | June 2006                                      | Training was delayed in the DoEs due to security situation in Iraq                                                                      |
| PI 3.2.2 Conduct Training workshops for staff of GDSP, GDIT<br>and the 23 DoE in the utilization of the software and analysis of<br>data and production of statistical reports.                        | Oct 2004<br>Jan 2005 | July 2006                                      | Technical training was delayed awaiting the corrections to the software.                                                                |
| PI 3.2.3 Conduct training workshops for 2 staff from each DoE on "Dot Net" programming techniques and applications, utilization of the EMIS software and on networking and database management skills. | Dec 2004             | Oct. 2004<br>Jan. 2005<br>Feb 2006<br>May 2006 | Additional training activities were organized<br>due to changes in staff and addition of<br>activities from<br>Phase II of the project. |

#### **M & E Report** for Outputs: EMIS

Output – 1: The basic infrastructure for decentralizing the functions of data entry and data processing will be established at the central MoE and the DoEs at the Governorate level. These units will be equipped with servers, personal computers, printers, scanners, LAN accessories and electricity generators.

| Description of the Performance<br>Indicators                                                                                                                                                 | Planned                                                                          | Actual                                                                               | Assess<br>ment<br>(A, B, C) | Reasons for<br>Deviations                                                             | Corrective<br>Action<br>(Steering) | Responsib<br>le person<br>(for<br>steering) | Comments<br>(including<br>'why' steer) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------|------------------------------------|---------------------------------------------|----------------------------------------|
| PI 1.1.1 Provide MoE's General Directorate<br>for Statistics and Planning (GDSP) and the<br>General Directorate of Information<br>Technology (GDIT) with Servers and<br>Personal Computers . | 2 servers + 100<br>PCs                                                           | All Equipment received                                                               | A                           | Not<br>Applicable                                                                     | Not<br>Applicable                  | Not<br>Applicable                           | Not<br>Applicable                      |
| PI 1.1.2 Provide GDSP and GDIT with printers, scanners, UPSs and consumables.                                                                                                                | 4 HP Laser + 2<br>deskjet<br>Printers+ 102<br>UPS+ 2<br>scanners                 | All Equipment received                                                               | A                           | Not<br>Applicable                                                                     | Not<br>Applicable                  | Not<br>Applicable                           | Not<br>Applicable                      |
| PI 1.1.3 Provide GDSP and GDIT with LAN accessories and consumables.                                                                                                                         | 2 sets of LAN<br>accessories+<br>Toners for<br>printers                          | All Equipment received                                                               | A                           | Not<br>Applicable                                                                     | Not<br>Applicable                  | Not<br>Applicable                           | Not<br>Applicable                      |
| PI. 1.1.4 Provide 1 electricity generator to the MoE.                                                                                                                                        | 1 Generator for<br>MoE                                                           | All Equipment received                                                               | A                           | Not<br>Applicable                                                                     | Not<br>Applicable                  | Not<br>Applicable                           | Not<br>Applicable                      |
| PI 1.1.5 Installation of Hardware in the GDSP and GDIT.                                                                                                                                      | All Hardware<br>was in place as<br>scheduled                                     | All hardware was<br>installed on time                                                | A                           | Not<br>Applicable                                                                     | Not<br>Applicable                  | Not<br>Applicable                           | Not<br>Applicable                      |
| PI 1.1.6 Installation of Software in the GDSP and GDIT.                                                                                                                                      | Software was<br>supposed to be<br>completed and<br>installed before<br>July 2005 | Initial version was<br>installed in March<br>2006, but final was<br>done in May 2006 | В                           | Installation of<br>final version<br>delayed until<br>all problems<br>were<br>resolved | Not<br>Applicable                  | Not<br>Applicable                           | Not<br>Applicable                      |

## M & E Report for Outputs: EMIS

Output 1: The basic infrastructure for decentralizing the functions of data entry and data processing will be established at the central MoE and the DoEs at the Governorate level. These units will be equipped with servers, personal computers, printers, scanners, LAN accessories and electricity generators.

| Description of the Performance<br>Indicators                                                              | Planned                                                                               | Actual                                                                      | Assess<br>ment<br>(A, B, C) | Reasons for<br>Deviations                                                       | Corrective<br>Action<br>(Steering) | Responsible<br>person<br>(for steering) | Comments<br>(including<br>'why' steer) |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------|------------------------------------|-----------------------------------------|----------------------------------------|
| PI 1.2.1 Provide 23 DoEs at the<br>Governorate level with servers and personal<br>computers.              | 21 servers +<br>420 PCs                                                               | 21 servers +<br>460 PC                                                      | A                           | No. of<br>Directorates of<br>Education (DoE)<br>was increased<br>from 21 to 23  | Not<br>Applicable                  | Not Applicable                          | Not<br>Applicable                      |
| PI 1.2.2 Provide 23 DoEs at the<br>Governorate level<br>with printers , scanners, UPSs and<br>consumables | 21Printer<br>2430+ 42<br>Printe 1320<br>+420 UPS 500<br>+21 UPS 1500<br>+ 21 scanners | 21 HP Printer<br>2430+46<br>Printer 1320<br>+420 UPS<br>500+ 23 UPS<br>1500 | A                           | No. of<br>Directorates of<br>Education (DoE)<br>was increased<br>from 21 to 23. | Not<br>Applicable                  | Not Applicable                          | Not<br>Applicable                      |
| PI 1.2.3 Provide 23 DoEs at the<br>Governorate level<br>with LAN accessories and consumables.             | 21 sets of LAN<br>Accessories<br>and<br>consumables                                   | 21 sets of<br>LAN<br>Accessories<br>and<br>consumables                      | A                           | No. of<br>Directorates of<br>Education (DoE)<br>was increased<br>from 21 to 23. | Not<br>Applicable                  | Not Applicable                          | Not<br>Applicable                      |
| PI. 1.2.4 Provide 4 electricity generator to 4 DoEs.                                                      | 4 generators<br>for 4 DoEs                                                            | 4 Generators<br>for 4 DoEs                                                  | А                           | Not Applicable                                                                  | Not<br>Applicable                  |                                         |                                        |
| PI. 1.2.5 Installation of Hardware at the 23 DoEs.                                                        | Dec 2005                                                                              | May 2005                                                                    | В                           | Delay due to security in Iraq                                                   | Not<br>Applicable                  | Not Applicable                          | Not<br>Applicable                      |
| PI 1.1.6 Installation of Software in the 23 DoEs.                                                         | March 2005                                                                            | May 2006                                                                    | С                           | Delay in revising software                                                      | Not<br>Applicable                  | Not Applicable                          | Not<br>Applicable                      |

# **M & E Report** for Outputs: EMIS

Output – 2: Customize operational computer software for immediate use by the MoE and the DoE for entry of schools data for establishing a computerized EMIS.

| Description of the Performance<br>Indicators                                                                                               | Planned    | Actual                 | Assessm<br>ent<br>(A, B, C) | Reasons for<br>Deviations                             | Corrective<br>Action<br>(Steering) | Responsible<br>person<br>(for steering) | Comments<br>(including<br>'why' steer) |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------------|-----------------------------|-------------------------------------------------------|------------------------------------|-----------------------------------------|----------------------------------------|
| PI 2.1 Assist MoE to develop a codebook for statistical data                                                                               | Sept. 2004 | Oct. 2004              | A                           | Not Applicable                                        | Not<br>Applicable                  | Not Applicable                          | Not<br>Applicable                      |
| PI 2.2 Assist MoE in developing new<br>School data collection instruments for all<br>types of schools and teacher training<br>institutions | Sept. 2004 | Oct. 2004              | A                           | Not Applicable                                        | Not<br>Applicable                  | Not Applicable                          | Not<br>Applicable                      |
| PI 2.3 Develop customized EMIS software<br>for data entry and for production of reports<br>and development of educational indicators.      | Dec. 2004  | March 2005<br>May 2006 | В                           | Revision and<br>corrections to be<br>made to software | Not<br>Applicable                  | Not Applicable                          | Not<br>Applicable                      |

### M & E Report for Outputs: EMIS

Output – 3: Develop the capacity of Technical and Professional staff of the MoE and the DoEs to utilize and maintain the EMIS software

| Description of the Performance<br>Indicators                                                                                                                                                                                                 | Planned                      | Actual                                                  | Assessme<br>nt<br>(A, B, C) | Reasons for<br>Deviations                                                                                  | Corrective<br>Action<br>(Steering) | Responsible<br>person<br>(for steering) | Comments<br>(including<br>'why' steer) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------|----------------------------------------|
| PI 3.1.1 Training key staff from GDSP to develop coding system for statistical data and develop school census forms                                                                                                                          | Sept.<br>2004                | Oct. 2004                                               | А                           | Not Applicable                                                                                             |                                    |                                         |                                        |
| PI 3.1.2 Conduct training workshops for<br>Key staff from GDIT and 2 staff from each<br>DoE on "Dot Net" programming<br>techniques and applications, utilization of<br>the EMIS software and on networking and<br>database management skills | Oct.<br>2004<br>Jan.<br>2005 | Oct. 2004<br>Jan.2005<br>Feb. 2006<br>July, Aug<br>2006 | В                           | Additional Training was<br>provided due to changes<br>in Staff and addition of<br>activities from Phase II |                                    |                                         |                                        |
| PI .3.1.3 Conduct a training of trainers for<br>data entry and LAN Administration for<br>GDIT staff and for 2 staff from each DoE                                                                                                            | Dec.<br>2004                 | Feb. 2006<br>May 2006                                   | В                           | Training delayed due to revision of software                                                               |                                    |                                         |                                        |

# M & E Report for Outputs: EMIS

Output – 3: Develop the capacity of Technical and Professional staff of the MoE and the DoEs to utilize and maintain the EMIS software

| Description of the Performance<br>Indicators                                                                                                                                                                         | Planned                      | Actual                                         | Assessmen<br>t<br>(A, B, C) | Reasons for<br>Deviations                                                                                   | Corrective<br>Action<br>(Steering) | Responsible<br>person<br>(for steering) | Comments<br>(including<br>'why' steer) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------|-----------------------------------------|----------------------------------------|
| PI 3.2.1 Conduct training workshops for 20 data entry staff from each of the 23 DoEs to utilize the EMIS software and perform data entry.                                                                            | Sept.<br>2004                | June 2006                                      | С                           | Due to delay in<br>finalizing software                                                                      | Not<br>Applicable                  |                                         |                                        |
| PI 3.2.2 Conduct Training workshops for<br>staff of GDSP, GDIT and the 23 DoE in the<br>utilization of the software and analysis of<br>data and production of statistical reports.                                   | Oct.<br>2004<br>Jan.<br>2005 | July 2006                                      | В                           | Technical Training<br>delayed awaiting<br>finalization of Software                                          | Not<br>Applicable                  |                                         |                                        |
| PI 3.2.3 Conduct training workshops for 2<br>staff from each DoE on "Dot Net"<br>programming techniques and applications,<br>utilization of the EMIS software and on<br>networking and database management<br>skills | Dec.<br>2004                 | Oct. 2004<br>Jan.2005<br>Feb. 2006<br>May 2006 | A                           | Additional training was<br>provided due to staff<br>changes and addition<br>of activities from<br>Phase II. | Not<br>Applicable                  |                                         |                                        |