**PRIMARY EDUCATION IMROVMENT PROJECT (PEIP)**

TERMS OF REFERENCE

**Supervision of school network infrastructure upgrades**

1. **Background of the Project**

The Primary Education Improvement Project (PEIP) development objective is to improve conditions for learning in primary education in North Macedonia.

The Project would support the Government of North Macedonia’s initiatives geared to:

* Improve learning environment at the primary level;
* Increase number of primary education teachers with proven professional practice in two core teacher professional competencies i.e., teaching and learning and creating a stimulating learning environment;
* Improve quality of teaching practices; and
* Implement school improvement plans that use performance data and monitoring tools for improving student learning.

The project will be organized around three main elements that need to be aligned in order to be complementary to each other. Component 1 focuses on school-level interventions, which are closest to students and most likely to impact learning while also mitigating and recovering learning losses generated by COVID-19. Two enabling elements are system-level reforms that would create the necessary enabling conditions so the school teachers are empowered with data on learning and up-to-date training. Component 2 would develop a comprehensive national assessment program to inform both school improvement planning and professional development programs, serving to link the school and system levels. Component 3 would put into practice professional competences for educators. Together, these elements will provide adequate information, tools, training and support to create effective and improved conditions for learning and ultimately increase student achievement. Component 4 would strengthen sector management, project management and monitoring and evaluation. The legal framework for implementation of above-mentioned reform interventions was recently adopted and there is an adequate institutional set up to embed them and eventually further enhance. The project activities are targeted toward building the foundation of a modern and efficient primary education system that is orienting all parts of the system toward learning.

The Ministry of Education and Science (MOES) is the main implementing agency of the Project in close cooperation with the National Examination Center (NEC), Bureau for Development of Education (BDE) and State Educational Inspectorate (SEI). Projects direct beneficiaries will include primary education students, but focused support will be given those who are vulnerable (Roma, girls, students coming from economically vulnerable families with risk to abandon studies, students disproportionally affected by the closure of schools due to the COVID-19 pandemic) which are expected to benefit from improved learning and physical environment in the schools as well as from better-trained teachers. Primary education teachers, school principals, and MPSTs will benefit from more efficient professional development and career advancement, digital teaching aids, teaching material that can be updated/corrected and improved fast based on the feedback received and grant program to implement their school improvement plans. The project activities are targeted toward building the foundation of a modern and efficient primary education system that is orienting all parts of the system toward learning.

1. **Objective of the assignment**

The school’s information processing capability continuously grows due to the amount of content accessed (files, streaming/video conference, videos). However, the existing IT and network infrastructure is already outdated and no longer suffices to the current needs of the schools.

The overall objective of this assignment is to supervise the upgrades of the primary schools network and IT infrastructure and equipment.

1. **Scope of work**

The main objective is to supervise the installation of electrical and network infrastructure and/or installation of IT hardware equipment in the ICT rooms (where applicable) in about 40 primary schools in the Republic of North Macedonia. List of primary schools and locations is provided in Macedonian language in Attachment 1.

After the Client’s selection of company to perform the works, the Consultant shall conduct the supervision and monitoring of the installations on behalf of the Client.

The Consultant/ Supervisor will provide supervision services as technical control of the works, check the performance of the selected contractors/suppliers, verify the quantities and weather the execution of the works is in accordance with the contract documents. During the installation phase, the Supervisor will carry out all the necessary inspections of electrical and network installation and of ICT products in order to insure the compliance with accepted standards and practices.

The Supervisor shall perform field supervision of each site at least three times for the duration of the contract, at the beginning of the works, during the installations and at the end of the installations. Before the beginning of the installation the Supervisor in coordination with the PEIP IT Specialist shall approve the work plan (dynamic plan).

Depending on the type of supply/works in the schools the consultant is expected to provide the following services:

* Supervise and monitor the installation of electrical infrastructure in each primary school, verify the quality of works and quantities
* Supervise and monitor the installation of network infrastructure in each primary school, verify the quality of works and quantities
* Supervise and monitor the installation of all ICT hardware equipment in each primary school, verify the quality of works and quantities
1. **Expected deliverables/Reporting obligations**

The expected deliverables are as follows:

* Report encompassing the supervision of the installed electrical infrastructure in the ICT room in each primary school, including photos of each ICT room, and/or
* Report encompassing the supervision of the installed network infrastructure in the ICT room in each primary school, including photos of each ICT room, and/or
* Report encompassing the supervision of the installed ICT hardware equipment in the ICT rooms in each primary school, including photos of each ICT room, and/or

All deliverables shall be prepared in Macedonian language and will be reviewed and approved by the PEIP IT Specialist and Project Director.

1. **Minimum Qualifications**

The qualification requirements of the Consultant are:

* University degree in IT or technical sciences;
* At least 10 years proven experience in working network projects and network solutions;
* Certificates that demonstrate capacity to understand network projects and evaluate network projects from multiple vendors;
* Capability to work with tight deadlines and travel on short notice throughout the entire country of North Macedonia
* Driving licence
* Knowledge of Macedonian and English language
1. **Contract arrangements and duration of assignment**

The expected duration of this assignment is 4 months with 30 staff days input. Expected start of services is April/May 2023.

The consultant is expected to work in North Macedonia with considerable amount of field work. The contract will be time based. Payment shall be made based on deliverables. The consultant must submit each product for review and approval for the payment to be executed.

Attachment 1. List of schools

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| --- | --- | --- | --- |
| **Реден број** | **Регион** | **Општина**  | **Училиште** |
| 1 | Вардарски | Велес  | Велес - ООУ „Васил Главинов“ |
| 2 | Вардарски | Градско  | Градско - ООУ „Даме Груев“ с.Градско |
| 3 | Источен | Делчево  | Делчево - ООУ „Св.Климент Охридски“ |
| 4 | Источен | Кочани  | Кочани - ООУ „Св.Кирил и Методиј“ |
| 5 | Источен | Пробиштип  | Пробиштип - ООУ „Никола Карев“ |
| 6 | Источен | Штип  | Штип - ООУ „Димитар Влахов“ |
| 7 | Југозападен | Дебар  | Дебар - ООУ „Пенестиа“ |
| 8 | Југозападен | Кичево  | Кичево - ООУ „Д-р Владимир Полежиноски“ |
| 9 | Југозападен | Струга  | Струга - ООУ „Гоце Делчев“ с.Подгорци |
| 10 | Југозападен | Струга  | Струга - ООУ „Јосип Броз Тито“ |
| 11 | Југоисточен | Василево  | Василево - ООУ „Атанас Нивачински“ с.Нова Маала |
| 12 | Југоисточен | Радовиш  | Радовиш - ООУ „Никола Карев“ |
| 13 | Југоисточен | Струмица  | Струмица - ОOУ „Герас Цунев“ с.Просениково |
| 14 | Југоисточен | Струмица  | Струмица - ООУ „Никола Вапцаров“ |
| 15 | Југоисточен | Струмица  | Струмица - ООУ „Маршал Тито“ |
| 16 | Пелагониски | Долнени  | Долнени - OОУ „Мирче Ацев“ с.Лажани |
| 17 | Пелагониски | Ресен  | Ресен - ООУ „Гоце Делчев“ |
| 18 | Полошки | Боговиње  | Боговиње - ООУ „Сабедин Бајрами“ с.Камењане |
| 19 | Полошки | Боговиње  | Боговиње - OОУ „Абдил Фрашери“ с.Боговиње |
| 20 | Полошки | Боговиње  | Боговиње - ОOУ „Сами Фрашери“ с.Пирок |
| 21 | Полошки | Врапчиште  | Врапчиште - ООУ „Мехмет Дерала“ с. Градец |
| 22 | Полошки | Врапчиште  | Врапчиште - ОOУ „Сали Лиси“ с.Добридол |
| 23 | Полошки | Гостивар  | Гостивар - ООУ „Гоце Делчев“ |
| 24 | Полошки | Желино  | Желино - ООУ „Ибрахим Темо“ с.Стримница |
| 25 | Полошки | Желино  | Желино - ООУ „Луиѓ Гуракуќи“ с.Желино |
| 26 | Полошки | Јегуновце  | Јегуновце - ОOУ „Шемшево“ с.Шемшево |
| 27 | Полошки | Теарце  | Теарце - ООУ „Исмаил Ќемали“ с.Нераште |
| 28 | Полошки | Тетово  | Тетово - ООУ „Кирил и Методиј“ |
| 29 | Полошки | Тетово  | Тетово - ООУ „Наим Фрашери“ |
| 30 | Североисточен | Кратово  | Кратово - ОOУ „Кочо Рацин“ |
| 31 | Североисточен | Куманово  | Куманово - ООУ „Бајрам Шабани“ |
| 32 | Североисточен | Ранковце  | Ранковце - ОOУ „Христијан Тодоровски Карпош“ |
| 33 | Скопски | Аеродром  | Аеродром - ООУ „Гоце Делчев“ |
| 34 | Скопски | Бутел  | Бутел - ОOУ „Лиман Каба“ с.Љуботен |
| 35 | Скопски | Бутел  | Бутел - ОOУ „Петар Здравковски Пенко“ |
| 36 | Скопски | Сарај  | Сарај - OОУ „Дрита“ с.Рашче |
| 37 | Скопски | Сарај  | Сарај - ООУ „Фаик Коница“ с.Радуша |
| 38 | Скопски | Сарај  | Сарај - ООУ „Дитуриа“ |
| 39 | Скопски | Студеничани  | Студеничани - ООУ „Алија Авдовиќ“ с.Батинци |
| 40 | Скопски | Чаир  | Чаир - ООУ „Лирија“ |