Terms of Reference

for providing consultant services related to TD documentation and TA during works execution for the achievement of the investment objective

Demolition and reconstruction of the Headquarters Mizil Fire Detachment within the Inspectorate for Emergency Situations "Şerban Cantacuzino" Prahova County

A. SUMMARY

1. General background

The Government of Romania has received a loan from the International Bank for Reconstruction and Development (IBRD) to support the implementation of the **"Strengthening Disaster Risk Management Project"**, hereinafter referred to as **"the Project".**

The Loan Agreement for financing the **Disaster Risk Management Project** has been signed by the Government of Romania and the International Bank for Reconstruction and Development in Bucharest, on August , 1, 2018, and has been ratified by the Law 307/2018.

The objective of the Project is to enhance the resilience of critical disaster and emergency response infrastructure and to strengthen the Borrower's institutional capacities in disaster risk reduction and climate change adaptation

2. Objectives of the assignment

The Assignment under these Terms of Reference (ToR) consists of the development of the **Inception Report,** of the delivery of the **Documentation for obtaining the Demolition Permit** for the existing construction, of the **Documentation for obtaining the Building Permit**, of the development of the **Technical Design** and of the **Execution Detail Design** for the proposed construction, and of providing the **Technical Assistance Services** for the works execution**,** as well as preparing the necessary documentations for obtaining the operational permits, and other necessary services in order to achieve the investment objective ***Demolition and reconstruction of the Headquarters Mizil Fire Detachment within the Inspectorate for Emergency Situations "Şerban Cantacuzino" Prahova County.***

The services should be completed during the periods specified in the below Section G of these Terms of Reference and in accordance with the provisions of the Contract.

The services provided by the Consultant under the Contract shall be consistent with:

- *The feasibility study* provided by the Client;
- The specific national mandatory norms and regulations, and specific norms (specific norms can be found at: https://www.igsu.ro/biblioteca/);
- The relevant Romanian legal framework in force;
- The Environmental and Social Management Framework for the Strenghtening Disaster Risk ManagementProject https://www.igsu.ro/biblioteca/legislatie/Transparenta%20decizionale/ESMF%20-DRMP_RO_final.pdf
- IBRD General Conditions and Policies as stipulated by the Law 307/2018 for the ratification of the Loan Agreement no.8892-RO for the financing of the **"Strengthening Disaster Risk Management Project "**.

3. Scope of services

The assignment subject to the Contract is referring to an operational sub-unit of the "Serban Cantacuzino" Inspectorate for the Emergency Situations, located in Mizil, Prahova County, which is

described by the data presented in the table below.

Batch	County	Unit	Total enrollment		Garage		Built/Gross Area (sqm)	Approved Solution
I	PH	Fire-fighting Detachment Mizil	107		Number of compartments 5	Number of trucks 10	Existing area - 804 sqm Proposed area - Foot print/Built area - 1.093,35sqm Gross area - 1.598,85sqm	The demolition works for the existent building, and the new construction and facilities works for the new construction
			Staff/shift max					
			Male 35	Female 4				

In order to meet the requirements of the relevant national regulations with respect to the completion of a new investment, the amount of the costs incurred for the approved solution has to meet the estimated amount (as mentioned in the Annex A) being included in the Feaseability Study which has been previously approved by the Technical-Economic Council of the Ministry of the Internal Affairs.

B. APPLICABLE LEGAL FRAMEWORK IN FORCE

- The Law no. 307/2018 for the ratification of the Loan Agreement no.8892-RO for the financing of the Strengthening Disaster Risk Management Project, signed by the Government of Romania and the International Bank for Reconstruction and Development;
- The Civil Code according with the amendments from the Law no. 287 of07/17/2009, the Law no. 287 of July 17, 2009, the Law no. 71 of 06/06/2011, the Law no. 60 of04/10/2012, the Law no. 76 of05/24/2012, the Law no. 138 of10/15/2014, the Emergency Ordinance no. 1 of 02/03/2016, the Government Decision no. 534 of 7/18/2018;
- The Law no. 213 of 11/17/1998 regarding the public property and its legal regime;
- The Law no. 50 (r2) of 07/29/1991 regarding the authorization of the execution of the construction works –as republished in the Official Gazette, Part I no. 933 of 10/13/2004 with the subsequent amendments including by Law no. 117 of 06/20/2019;
- The Law no. 10/1995 regarding the quality in works execution, as republished in the Official Gazette, Part I no. 765 of 09/30/2016, as amended by the Law 177/2015, by the Emergency Ordinance no. 6 of 02/22/2018,by the Emergency Ordinance no. 84 of 09/13/2018 and by the Law no. 97/2019;
- The Law no. 350 of 07/06/2001 on land planning and urban planning;
- The Law no. 372/2005 regarding the building energy performance as republished in the Official Gazette, Part I no. 764 of 09/30/2016;
- The Law no. 500 of 07/11/2002 on public finances;
- The Government Decision no. 742 of 09/13/2018 regarding the modification of the Government Decision no. 925/1995 for the approval of the Regulation of the verification and the technical survey of the Design quality, of the works execution and constructions;
- The Decision No. 395/2016 of June, 2, 2016 for the approval of the Methodological Norms for the application of the provisions regarding the award of the public financed procurement contract / the framework agreement of the Law no. 98/2016 regarding public procurement;
- The Decision no. 907/2016 regarding the stages for the elaboration, and the framework content of the technical-economic documentation related to the objectives / investment projects financed from public funds;
- The Order no. 7/2019 regarding the establishment of the framework content, the elaboration and the approval of the technical-economic documentation related to the new investment objectives and / or the intervention works to the existing constructions, as included in the programs of the Ministry of Internal Affairs (which is abolishing the O.M.I.A. no. 597/2008)
- The Decision no. 571/2016 for the approval of the categories of the construction works and the facilities that are subject to the approval and /or the authorization complying with the fire safety norms;
- The Order no. 129/2016 for the approval of the Methodological Norms regarding the approval

and authorization complying with the fire safety and the civil protection norms;

- The Decision no. 343/2017 for the modification of the Government Decision no. 273/1994 regarding the approval of the Regulation for the reception of the construction and their installations works;
- The Decision no. 300/2006 regarding the compliance with the minimum safety and health requirements for the works temporary or mobile sites;
- The P100-1/2013 Seismic design code - Part I – on the Design provisions for buildings;
- The C I07/0-2002 Normative for the design and the execution of the of thermal insulation works in the buildings;
- The NP 068 - 2002 Normative regarding the compliance of the civil buildings design with the safety requirements;
- The I 7 – 2011 Normative for the design, execution and operation of the electrical installations related to buildings;
- The P 118 – 1999 Fire safety norms for the buildings;
- The P118-2 / 2013 Normative regarding the fire safety of the buildings - Part II –on the Extinguishing systems –that includes the modifications provided by the Order 6026/2018;
- The P118-3/2015 Normative regarding the fire safety of buildings, Part III –the Detection, signaling and warning installations, that includes the modifications provided by the Order 6025/2018;
- The I9 - 2015 Normative for the designing and the execution of the sanitary installations;
- The C56-00 Normative for the verification of the quality and the reception of the construction works and their related installations;
- The I 13/2015 Normative for the design and the execution of the heating installations;
- The I 7-2011 Normative for the design and the execution of the electrical installations of the buildings;
- The NP-061-2002 - Normative for the design and the execution of the "artificial" lighting systems in the buildings;
- The P 91/1-02 - Guide on the development of the quotations, for all works categories and for all construction objects, applying for the investments to be financed from the public funds.

C. THE ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN

The site-specific ESMP for the Mizil Investment Objective is prepared, and its development shall be completed by the date of this ToRs related Contract shall be effective.

The Consultant has the obligation to integrate all the respective E&S requirements in the documentation the Consultant is accountable to develop and to submit to the Client during the stages of this assignment.

The present ESMP is detailed in **Annex H** to these ToRs.

D. THE DETAILED DESCRIPTION OF THE SERVICES

1. The services to be provided shall include the following activities:

A) The development and the delivery of the professional architectural and engineering services (Phases I and II, as described below)

The Consultant shall provide to the Client the comprehensive technical documentation, addressing architectural and engineering aspects, hereinafter referred to as „**Technical Design**", complying with the quality standards as described in this Terms of Reference; the final technical documentation („Technical Design") shall be integrated by the PIU in the bidding documents being subject to a procurement procedure for awarding the contract for the investment objective *the Demolition and the Reconstruction Works of the Headquarters Detachment Mizil firefighters, from the "Serban Cantacuzino" Emergency Situations Inspectorate of the Prahova County.*

B) ***The development and the delivery of the professional supervision services (Phases III and IV, as described below)***

a) Providing technical support during the development of the procurement procedure for the execution of works that shall be performed according to the documentation from Phase II and which shall be supervised as stipulated in Phase IV.

b) Providing the supervision services for the works execution (Stage IV, also called Technical Assistance during the works execution)

The Consultant shall provide technical assistance services, with due dilligence, in order to secure the performance of the works execution activities (during the demolition works and during the new building&facilities construction works), and the consistency with the drawings, execution detail design, works-schedules and technical specifications that are prepared by the Consultant and are approved by the Client.

2. The documentation to be provided to the Consultant by the PIU:

- *The Technical Survey* that has been previously ellaborated and has been subsequently certified;
- *The Feaseability Study* that has been previously accomplished, and further has been approved by the Technical-Economic Council of the Ministry of the Internal Affairs (MoIA);
- *The Geotechnical and Topographical Studies, that have been each one previously ellaborated.*
- *The Urban Certificate no. 170 /Nov,16,2018* that has been issued by the Ministry of the Internal Affairs – The General Logistics Directorate, in order to obtain the required Demolition Permit (for the existing building to be demolished) and to organise the demolition works, and also to obtain the Building Permit for the new proposed building and to start-up the execution of the construction works. During the issuing of the *Feaseability Study* , the necessary *permits/authorizations,* on a case-by-case basis, have been obtained as being required by the *Urban Certificate.*

Whether the geotechnical and topographic studies, being previously elaborated and made available by the Client to the Consultant, shall require completions or amendments, these documents shall be accomplished by the Consultant under this related Contract, including interim approvals by the Client, and the final version of the geotechnical and topographic studies shall be submitted to the Client under this assignment.

3. Stages of the service delivery (documents development and technical assistance):

a) Phase I: the Preparation of the Inception Report;

b) Phase II: the Development of the Demolition Permit of the existing construction, of the Building Permit and of the Technical Design for the execution of the new construction

(i) **Phase II.1.** The Elaboration of the Demolition Design and obtaining of the Demolition Permit inclusive Site Works Design and Site Works Permit for Demolition;

(ii) **Phase II.2.** The Elaboration of the „Technical Documentation in order to obtain the „Building Permit" for the new construction and the „Technical Documentation for Site Works Permit" for the execution of the construction works, and the technical documentation related to the organization of the execution of the demolition works;

(iii) **Phase II.3.** The Elaboration of the "Technical Design" for the execution of the new construction;

(iv) **Phase II.4.** The development of the "Execution Detail Design" as an integral part of the „Technical Design";

(v) **Phase II.5.** The submission to the Client of the final documentation for the Demolition Permit of the existing construction, the Building Permit and the „Technical Design" for the execution of the new construction, including the „Execution Detail Design".

c) Phase III: Providing technical support during the procurement procedure of the construction company (Contractor) for the execution of the Works.

d) Phase IV: Providing the Construction works Supervision Services (referred to as Technical Assistance Provided by the Consultant) and preparing the documents for the Operational Permit

In order to undertake the services presented above, the Consultant shall take into consideration to comply with the provisions of the Law no.10/1995 on the quality assurance in works construction, republished and including all its subsequent amendments, and also the quality assurance requirements as mentioned in **Annex B.**

4. <u>The detailed description for the consulting services according to the before mentioned Phases is described by the following activities:</u>

a) Phase I: the Preparation of the Inception Report

The Consultant shall take into consideration the technical data from the Feasibility Study and shall elaborate an Inception Report, which shall include data&information referring to the new construction, by consolidating specific information related to: architecture, structure and installations, with reference to the solutions for the proposed new construction, and also the adapted drawings for the following stages and steps. The cost amounts included in the approved General Estimate, being included in the approved Feasibility Study should cover the cost amount of the proposed solutions.

In the Inception Report, the Consultant will also specify the need to update / obtain the permits / authorizations, on a case-by-case basis according to the stipulated requirements in the Urban Certificate.

The concept for the new construction was prepared during the Feasibility Study stage, but the following improvements are required:

- The position of the garage is switched on the site plan with the administrative part of the building, to preserve the existing green area and maintain most of the existing trees;

- On the drawings of each level, all the spaces (eg sanitary rooms, locker rooms, dormitories, etc.) shall be sized, equipped and designed addressing also the gender aspects (men / women) specified in the table describing the subunit enrollement (see the table under paragraph 4. Scope of services).

In line with the presented improvements, the Consultant shall attach, to the Inception Report, the Site Plan and the drawings for each level. These drawings shall clearly describe the surfaces, the dimensions, the amenities, the furniture, and also the destination of the rooms.

At this stage, the Consultant's staff shall consider performing site visits, including each role/responsibility in the team involved in the achievement of these consultancy services, for the collection of data; on a needs basis; it is expected that, in order to accomplish the assignment, the Consultant's staff will make site visits whenever necessary/requested.

In order to finalize the Inception Report, the Consultant and the Client shall jointly attend consultative meetings. The Client's observations, comments, interim approvals shall be included in the final Consultant's Inception Report.

b) Phase II: the Development of the Demolition Permit of the existing construction, of the Building Permit and of the Technical Design for the execution of the new construction

(i) Phase II.1. The Elaboration of the Demolition Design and obtaining of the Demolition Permit inclusive Site Works Design and Site Works Permit for Demolition and the technical documentation related to the organization of the execution of the demolition works;

The documentation for obtaining the authorization to demolish the existing construction shall be prepared according to **Annex C,** and the following activities are required:

- The Elaboration of the technical documentation necessary for obtaining/updating the permits/authorizations, on a case-by-case basis as required by the Urban Certificate, and submitting it to the competent authorities after its prior transmission to the Client (according to the Contractual obligations);
- The submission of the necessary Technical Documentation in order to obtain the Demolition Permit:
  1. The Elaboration of t**he technical documentation of architecture and engineering of the existing construction** that must include the solution of the design of the demolition works. The proposed demolition works should comply with the most recent effective versions of the technical norms, of the Romanian standards in force, in particular those regarding the structural resistance and the mandatory requirements for the seismic resistance, the fire safety measures, the safety measures in operation, the environmental protection and the solution approved for decommissioning in the Feasibility Study, as well as the recommendations of the opinions requested by the Urban Certificate. The Consultant will update, if necessary, the existing construction drawings and pictures, and also the specifications and the authorization documents of the existing construction.

  2. The documentation for organizing the execution of the demolition works for the existing construction, drawn up in accordance with **Annex E,** will be elaborated.

  3. The Elaboration of **the General Estimate,** and all the respective amounts shall be expressed in lei /Euro equivalent.

  4. A technical-economic documentation (the Bill of Quantities) shall be elaborated, detailing each type of works, including prices for labor, materials, transport and equipment, and the final costs.

(ii) Phase II.2. The Elaboration of the „Technical Documentation in order to obtain the „Building Permit" for the new construction and the „Technical Documentation for Site Works Permit" for the execution of the construction works, and the technical documentation related to the organization of the execution of the demolition works.

The documentation for obtaining the Building Permit for the proposed construction shall be prepared according to **Annex D**, and the following activities are required:

- The Elaboration of the technical documentation in order to obtain the permits/authorizations, on a case-by-case basis, requested by the Urban Certificate, and to submit it to the competent authorities after its prior transmission to the Client (according to Contractual obligations);
- The submission of **the required Technical Documentation for obtaining the Building Permit**:
    1. The Elaboration of the **architecture and engineering Technical Documentation** of the proposed construction, that must include the solution of the construction works design. The proposed construction works shall mandatorily comply with the most recent versions of the technical norms, of the Romanian technical standards and ordinances, shall specifically conform to the regulations regarding the structural resistance and the specific requirements addressing topics like seismic resistance, fire safety, safety in operation, environmental protection, and with the approved construction solution included in the Feasibility Study, complying also with the outlined recommendations by the permits/authorizations, on a case-by-case basis, requested within the Urban Certificate.

    2. The documentation for organizing the execution of the construction works for the proposed construction shall also be prepared in accordance with **Annex E.**

(iii) Phase II.3. The Elaboration of the "**Technical Design**" for the execution of the new construction

The development of the necessary technical documentation for the accomplishment of the proposed construction shall be carried out according to **Annex F**, by undertaking the following activities:

- The preparation of the construction works quality assurance program, for the entire duration of Works execution; this program shall define the determinant stages of all milestones, for each role and responsibility of all parties;
- The preparation of the works execution physical and value plan (GANTT chart) that describes the list of activities, the estimated timetable and the corresponding investment expenditures;
- Based on the final Technical Design documentation, the Consultant will calculate the final needed quantities for the Works, outlining the details for each type of works and including the respective costs for labor, materials, transport and equipments.

(iv) Phase II.4. The development of the "**Execution Detail Design**" as an integral part of the „Technical Design";

The development of the Execution Detail Design for the accomplishment of the proposed construction shall be carried out according to **Annex G,** by taking into account the following considerations:

The Execution Detail Design is part of the Technical Design, and shall fully comply with its provisions; the Execution Detail Design shall describe the solutions of the composition, assembly, execution, installation and all other operations regarding the parts / elements of the works construction or related to installations, and which shall indicate dimensions, materials, execution technologies, as well as links between the structural / non-structural constructive elements of the investment objective.

The Execution Detail Design shall be prepared on a relevant scale and shall contain all the relevant notes, descriptions and data for a clear understanding of the scope and the quality of the works to be executed, and shall be included in the requirements of the bidding documents and in the bills of

quantities. The Execution Detail Design shall include all the necessary data for defining, establishing and implementing the works.

(v) **Phase II.5.** The submission to the Client of **the final documentation for the Demolition Permit of the existing construction, the Building Permit and the „Technical Design" for the execution of the new construction, including the „Execution Detail Design".**

The final, revised documentation as requested in the before-mentioned phases II.1, II.2, II.3, II.4 shall be delivered to the Client; the final documentation shall include all the requirements being stipulated within the *permits/authorizations* required by the Urban Certificate.

*** **NOTE**

In order to elaborate the Technical Documentation mentioned in Phase II, the Consultant shall take into account the following considerations:

- The approval and authorization procedures for obtaining the **Demolition Permit/Buiding Permit** shall be followed, and the compliance with the the Romanian legislation in force must be observed and shall prevail;
- The General Estimate of the works shall be developed according to the legal provisions in force;
- All drawings must be prepared on a relevant scale, as required by the specific regulations and as mentiomed above referring to the phases "Technical Design" and "Execution Detail Designs";
- The technical documentation must include all the details necessary for the definition, establishment and implementation of the works;
- The technical documentation must comprise all the necessary notes, descriptions and details for a clear understanding of the solutions and the quality of the subject works, and to allow the identification and the connection with the technical specifications, the lists of quantities comprising the materials and the elements of construction, the finishing and the required works.

For the accomplishment of the tasks listed under Phase II (and under all its sub-phases), the Consultant and the Client shall jointly attend consultative meetings. The Client's observations, comments, including interim approvals by the Client on the draft versions of the documentation provided by the Consultant, shall be included in the Consultant's final version of the documentation.

Attention: The Consultant shall take into account the possible development of the technical solutions, and the preparation of the related technical documentation for ensuring utilities, or of any other documentation that may be requested by the authorities in charge for the issuance of opinions / agreements /authorizations shall be considered.

The final required documentation for the existing construction in order to obtain the Demolition Permit, and also for the Building Permit and the Technical Design and the Execution Detail Design for the execution of the new construction shall mandatorly include all the before mentioned comments/observations by the Client.

c) Phase III: Providing technical support during the procurement procedure of the construction company (Contractor) for the execution of the Works.

The Client shall provide professional support, on a needs basis, to the GIES- PIU representatives during the procurement process for the selection of the Contractor, by providing technical support in the development of the clarifications with respect to the bidding documents.

For the accomplishment of the Phase III tasks, the Client and the Consultant shall attend consultative meetings.

d) Phase IV: Providing the Construction works Supervision Services (referred to as the Technical Assistance Provided by the Consultant) and preparing the documents for obtaining the Operational Permit(s)

The Consultant shall undertake the following services:

- Once the works execution has been initiated, the Consultant will provide technical assistance services related to the follow-up activities on the performance of the demolition / construction works, including site visits. These services shall be provided at least once in a month, and several times, keeping the consistency with the control program for the determinant phases, but also whenever the PIU shall make a request in this respect during the entire period of the demolition / construction works execution; the Consultant shall participate to the reception of the works completion and also to the final reception. The Consultant will monitor, through its specialized staff, the progress of the Contractor's obligations with respect to the accomplishment of the specified milestones, for each Works stage;
- Further to the Contractor's request to the Client, the Consultant will provide the latter with any details regarding the works completion. The Consultant shall check the results of soil investigations and material testing, in order to ensure that the technical specifications are satisfactorily met;
- The Consultant will prepare the Work-site Provisions (shop drawings), where appropriate, that shall be submitted further for the Client's approval;
- The Consultant will draw up detailed plans, technical specifications and cost estimates for the additional works or for the variation orders, approved by the Client, with no additional costs for the Client;
- The costs of the Consultant's services related to any unforeseen works executed by the Contractor are included in the Consultant's costs for the Technical Assistance services during the works execution. Whether such unforeseen works shall have to be executed, the Consultant will supervise the related to works execution by the Contractor;
- The Consultant shall have to prepare and to submit the Specialized Reports, monthly and at the completion of the works execution, and also the energy performance certificate for the reception of the works;
- The Consultant shall develop the documentation "as built" according to the requirements of the Romanian legislation in force.
- The Consultant must provide the individual labor protection equipment for his own personnel&staff, during the necessary site visits, according to the legal provisions in force.

During the assignment related to the technical assistance services, the Consultant will comply in all respects with the legal provisions in force regarding the technical assistance provided during the works execution.

For the accomplishment of the tasks listed under Phase IV, the Consultant and the Client shall jointly attend consultative meetings. The Client's observations, comments, including interim approvals by the Client related to the performance of the tasks performed by the Consultant under Phase IV, shall be included in the Consultant's final versions of the documentation to be elaborated under Phase IV of the assignment, or, whether appropriate, the eventual discrepancies shall be addressed and remediated.

The hiring of the certified technical verifiers shall be accomplished following a specific separate procurement procedure, to be carried out by the PIU. The Consultant has the obligation to maintain a continuos communication (Phase II and IV) with the certified technical verifiers and to incorporate all their observations in the technical documentation.

E. The CONSULTANT's REPORTING OBLIGATIONS

The Consultant shall undertake the activities provided above and shall provide the related services, as described below:

1. **Phase I: The Preparation of the Inception Report**

   The Inception Report will be prepared in accordance with the specifications set out in para D. 4. a) of the Terms of Reference, and will be submitted to the Client's premises within 21 days from the date of the Contract signing.

   The issued documents must be delivered, signed and stamped in 3 (three) copies and 1 (one) in electronic format on CD / DVD (pdf. SCANAT - with signatures and stamps).

2. **Phase II: the Development of the Demolition Permit of the existing construction, of the Building Permit and of the Technical Design for the execution of the new construction**

   The specific documentation will be elaborated in accordance with the specifications set out in **D. 4. b) (i) - (iv) of the Terms of Reference** while respecting the norms and laws in force regarding its implementation. The documentation will be submitted successively to the Client's premises according to paragraph G. Activity graph.

(i) Phase II.1. The Development of the Demolition Design and obtaining of the Demolition Permit inclusive Site Works Design and Site Works Permit for Demolition the existing construction and the technical documentation related to the organization of the execution of the demolition works;

- The Consultant shall develop the necessary technical documentation in order to obtain / update the permits/authorisations, on a case-by-case basis required by the Urban Certificate and submit it to the competent authorities;
- The Consultant shall develop the necessary Technical Documentation in order to obtain the Demolition Permit according to the specifications set out in D. 4. b) (i) of the Terms of Reference, following the aspects regarding the health and safety at work measures, the environment protection measures, and also the impacts on the neighbours' social life.

The documentation above shall be delivered in the draft version at the Client's premises after **21 days** from the start of Phase II together with the documentation for organizing the execution of the decommissioning works for the existing construction. It shall be transmitted electronically on CD / DVD media (pdf extension - NOT SCANED, docx., Xls., As the case may be) and 1 (one) edited copy.

(ii) Phase II.2. The Elaboration of the „Technical Documentation in order to obtain the „Building Permit" for the new construction and the „Technical Documentation for Site Works Permit" for the execution of the construction works, and the technical documentation related to the organization of the execution of the demolition works

- The Consultant will develop the necessary technical documentation in order to obtain / update the the permits/authorisations, on a case-by-case basis required by the Urban Certificate and submit it to the competent authorities;
- The Consultant will develop the necessary Technical Documentation in order to obtain the Building Permit according to the specifications established in D. 4. b) (ii) of the Terms of Reference.

These will be delivered in the draft version at the Client's premises after **42 days** from the start of Phase II together with the documentation for organizing the execution of the decommissioning works for the existing construction. It is transmitted electronically on CD / DVD media (pdf extension - NOT SCANED, docx., xls., As the case may be) and 1 (one) edited copy.

(iii) Phase II.3. The Elaboration of the "**Technical Design**" for the execution of the new construction

The specific documentation will be prepared according to the specifications set out in **D. 4. b) (iii) of the Terms of Reference**. respecting at the same time the norms and laws in force regarding the way of its implementation. This will be submitted in the draft version at the Client's premises after **63 days** from the start of **Phase II.**

The issued documents are transmitted in electronic format on CD / DVD support (pdf extension - NOT SCANED, docx., Xls., As the case may be) and 1 (one) copy published.

(iv) Phase II.4. The development of the "**Execution Detail Design**" as an integral part of the „Technical Design";

The specific documentation will be developed in accordance with the specifications set out in D. 4. b) (iv) of the Terms of Reference while respecting the norms and laws in force regarding its implementation. This documentation will be submitted in the updated version at the Client's premises after **77 days** from the initiation of the **Phase II of this assignment,** in order to be verified by the PIU staff and the certified technical verifiers.
The issued documents shall be transmitted in electronic format on CD / DVD media (pdf extension - NOT SCANED, docx., xls., on a case-by-case basis) and 1 (one) copy published.

At the same time, within the same term, all the permits/authorizations, on a case-by-case basis, that have been obtained from the competent authorities, being necessary to obtain the Demolition/ Construction Works Authorization, shall be delivered to the Client.
These, together with the documentation related to the broadcasts, will be delivered to the Client both in original and in electronic format on CD / DVD (pdf.).

(v) Phase II.5. The submission to the Client of **the final documentation for the Demolition Permit of the existing construction, the Building Permit and the „Technical Design" for the execution of the new construction, including the „Execution Detail Design"**

During this stage, all the permits/authorizations, on a case-by-case basis, that have been obtained from the competent authorities, being necessary to obtain the Demolition Permit/ Building Permit, will be delivered to the Client. These, together with their respective supporting documentation, shall be delivered to the Client both in original and in electronic format on CD / DVD (pdf.).

After the implementation/integration of all the observations and the requirements, as established/stipulated by permits/authorizations requested by the Urban Certificate, the final documents, in their original copy, shall be delivered within **98 days** from the start of Stage II, as follows:

- **4 (four)** copies with authorized signatures and stamps (including by certified verifiers), on paper;
- **1 (one)** copy in electronic format, on CD / DVD support (dwg extension, pdf. - NOT SCANED, docx., Xls., As the case may be);
- **1 (one)** copy in electronic format on CD / DVD support (pdf. SCANAT - with authorized signatures and stamps, including by certified verifiers).

*** NOTE
- The mentioned terms are of maximum character;
- During the verifications by the PIU and the certified technical verifiers on the documentation, the Consultant's assignment under the Contract shall not be canceled;
- „Days"- calendar days.

3. **Phase III: Providing technical support during the procurement procedure of the construction company (Contractor) for the execution of the Works**

The Consultant shall provide professional technical support, on a needs basis, to the GIES - PIU representatives during the procurement process for the selection of the Contractor, by providing support in the development of the clarifications with respect to the bidding documents.

4. **Phase IV: Providing the Construction works Supervision Services (referred to as Technical Assistance Provided by the Consultant) and preparing the documents for the Operational Permit**

a) Technical assistance provided by the Consultant

In order to initiate the new construction works, it is necessary to prior complete the reception of the decommisioning works, and the Consultant will also participate to the above mentioned reception. He will participate in the decommissioning works established according to the law.

The following documents will be delivered, (two copies shall be sent to the PIU):

- Monthly monitoring reports on the progress of construction works and presentations in the determining phases (according to the national legislation for quality assurance in construction) as well as the incidental surveillance reports requested by the PIU.

  Delivery date: Not later than 7(seven) days after the end of each reporting period.

- The final report on the supervision services and specialized reports on the reception / taking over of the works.

  Delivery date: Not later than 15 (fifteen) days from the completion of the works.

- Presentation on the site as needed and at the Client's request.

All documents prepared and submitted by the Consultant, in any format, are and shall remain the property of the PIU after the completion of the Consultant's assignment under the Contract The Consultant may not use or disseminate any of the documents without the prior written consent of the PIU.

b) Consultant's Obligations

- The Consultant shall be accountable for the coordination according to the health and safety measures that must be organized in the stages of the preparation and the development of the technical documentation, according to the GD 300/2006 art.5;

- The Consultant is responsible for including the professional civil liability insurance for specialized designers according to the Law 10/95 republished - art.6 and art. 31.

- The Consultant will comply with all the obligations established by the legislation on health and safety at work and the fire safety measures, during all stages of the consultancy services;

- The Consultant is responsible for the submission of the evidence of the project being issued by the OAR (Order of Architects in Romania);

- The Consultant shall be accountable for the submisson of the technical documentation necessary for the current and special monitoring of the construction behavior in operation, as stipulated by the Order 847/2014 approving PCU 004 and of the Norm regarding the behavior in time of constructions indicative P130 / 1999.

- The Consultant is responsible for the delivery of the technical documentation required for obtaining the ISCIR Authorizations, commissioning, calibration, metrological checks of the investment-related machines that require approval, authorization, etc;

- The Consultant shall be accountable for carrying out the samples, tests, commissioning of the installations, receiving the connection executed works and achieving the connections to the utilities necessary for the operational functioning of the construction, according to the obtained permits/authorizations and the elaborated documentation;

- The Consultant is responsible for the completion of the Energy Performance Certificate upon the works receiption;

- The Consultant shall be accountable for the development of the "as-built" documentation (the technical documentation of works execution updated at the date of the works completion), necessary for the reception at the works completion, according to the provisions of GD 273/1994, modified by GD 343/2017;

- The Consultant is responsible for the development of the Reports on each speciality (architecture & engineering) being prepared by the Contractor regarding the implementation of the works execution - according to the GD 343/2017 art. 15 (3) i);

- The Consultant's representatives must mandatorily attend the Reception at the works completion as participating party, according to GD 343/2017 art. 11 (5);

- The Consultant's representatives must mandatorily attend the final Reception as participating party according to GD 343/2017 art 25 (2).

During the preparation of all the documents stipulated by the Contract, the Consultant will take into consideration the respective relevant national standards in force.

During the preparation of the design documentation, the Consultant must take into account the measures regarding the environment protection &social safeguard provisions, and of the construction protection, as being stipulated by the Loan Agreement for financing the **Disaster Risk Management Project,** (P166302, IBRD LN 8892-RO) which has been signed by the Government of Romania and the International Bank for Reconstruction and Development in Bucharest, on August , 1, 2018, and has been ratified by the Law 307/2018 . These provisions shall be in force during the Loan Agreement effectiveness.

• All implementing activities related to these consultancy services must be carried out in accordance with the applicable national environment protection regulations, and to observe the correlation with the respective European standards, while presuming that the Romanian ones may be accordingly amended or modified, and must preserve the compliance with all applicable governmental authorizations.

• The demolition, construction and maintenance works, as well as the environment impact mitigation policies that may be required for these consultant services must be carried out in accordance with the best practice guidelines and the mentioned above standards related to this topic.

• The maintenance and the rehabilitation of the utilities, which may be requested by the competent authorities, must be specified in the documentation.

The coodination of the safety and health preservation measures shall be organized during all the stages of the documentation development.

The energy performance certificate that must to be issued at the completion of the works construction shall be developed by the Consultant and shall be delivered to the Client before the Reception at the completion of the works.

Thus, the Consultant will address both the environment impact aspects during the demolition/ construction works execution, and the environmental impact during the operation of the intervention sub-unit after the completion of the proposed new construction.

During the preparation of the documents required in Phase II, the Consultant will present the solution (s) proposed to the PIU, in order to ensure that their needs are taken into account (as final beneficiaries). The supporting documents for these consultations must be provided to the Client in the form of minutes of the meetings.

The technical documents elaborated by the Consultant during the stages II and IV of the assignment services shall be submitted for the examination and review performed by the certified technical verifiers, previously contracted by the PIU.

All the incurred costs for the performance of the provided services, being consistent with the norms and laws in force and described in the Terms of Reference shall be fully supported by the Consultant.

F. FACILITIES TO BE PROVIDED BY THE CLIENT DURING THE ASSIGNMENT

For the services provided during phases I and II, the Client will provide a special office space for the consultative meetings to be held, and for the process of handing over the documents (technical or functional).

The Consultant is responsible for and shall support all the costs for the field trips, the materials and equipment needed for the technical/consultative meetings with the Client.

The Consultant shall support all the incurred costs during the performance of the activities that are undertaken and stipulated in the Terms of Reference.

G. SCHEDULE OF ACTIVITIES

No.	Activities	*Allocated time / delivery time (calendar days / months)
1	**Phase I: The Preparation of the Inception Report**	**21 days**
	The review of Documentation by the PIU	**7 days**
2	**Phase II: The Development of the Demolition Permit of the existing construction, of the Building Permit and of the Technical Design for the execution of the new construction**	**98 days**
	Phase II.1. the Development of the Demolition Design and obtaining of the Permit for Demolition inclusive Site Works Design and Site Works Permit for Demolition the existing construction and the technical documentation related to the organization of the execution of the demolition works	**After 21 days: the** Documentation required in order to obtain the Demolition Permit of the existing construction and the technical documentation related to the organization of the demolition works execution. The documentation shall be delivered in the draft format. Submission to the competent authorities for the demolition works and being requested by the Urban Certificate, and are established on the phase I.
	Phase II.2. The Elaboration of the „Technical Documentation in order to obtain the „Building Permit" for the new construction and the „Technical Documentation for Site Works Permit" for the execution of the construction works, and the technical documentation related to the organization of the execution of the demolition works	**After 42 days :** Documentation required to obtain the Building Permit of the existing construction and the technical documentation related to the organization of the new building works execution. The documentation shall be delivered in the draft format. Submission to the competent authorities for the permits/authorizations of the new building requested by the Urban Certificate and established on the phase I.
	Phase II.3. The Elaboration of the "Technical Design" for the execution of the new construction	**After 63 days :** Documentation regarding the Technical Design for the execution of the new construction in the draft format
	Phase II.4. The development of the "Execution Detail Design" as an integral part of the „Technical Design"	**After 77 days :** . Documentation regarding the Execution Detail Design in draft format. During this stage, all the permits/authorizations obtained from the competent authorities shall be delivered to the Client.
	Phase II.5. The submission to the Client of the final documentation for the Demolition Permit of the existing construction, the Building Permit and the „Technical Design" for the execution of the new construction, including the „Execution Detail Design"	**After 98 days :** All the edited, signed and stamped documentation shall be transmitted in the final form accepted by PIU and correlated with the endorsements issued by the authorities, -Technical documentation for obtaining the Demolition Permit and organization of the execution of the demolition works; -Technical documentation for obtaining the Building Permit and

No.	Activities	*Allocated time / delivery time (calendar days / months)
		organization of the execution of the construction works; - Technical Design for the execution of the new construction; - Execution Detail Design, part of the Technical Design
	Consultative meetings	**During the phase II of the assignment, the Client may request for consultative meetings to be jointly held by the Client, PIU and the Consultant, on a case-by-case basis**
TOTAL Phase I and Phase II		**126 days (approx. 4.5 months)**
3	**Phase III: Providing technical support during the procurement procedure of the construction company (Contractor) for the execution of the Works**	The Client shall provide professional technical support, on a needs basis, in the development of the clarifications with respect to the bidding documents.
4	**Phase IV: Providing the Construction works Supervision Services (referred to as Technical Assistance provided by the Consultant) and preparing the documnents for the Operational Permit**	**17 months** The following shall be drawn up and submitted to the PIU: **Monthly reports** - no later than **7 days** from the end of each reporting period; **Final report** on the supervision services and specialized reports at the reception / taking over of the works - no later than **15 days** from the completion of the works.
TOTAL Phase III și IV		**17 months**

NOTE

- the mentioned periods of time are considered the maximum duration as allocated time;

- for obtaining of the permits/authorizations requested by the Urban Certificate;

- „DAYS" are considered as calendar days

H. INSTITUTIONAL ARRANGEMENTS

The Institutions having a role for the assignment:

- General Inspectorate for Emergency Situations (GIES) as the Project Implementing Agency and the Client under the Contract;
- The PIU within the GIES is responsible for all Project implementation activities.

During the assignment, the Consultant shall contact and shall communicate, on a needs basis, with:

1. Project Implementation Unit (PIU) ;
2. Specialized certified technical verifiers hired by the PIU
3. The Contractor who performs the works execution under a signed contract;
4. Site managers contracted by the PIU
5. Contract manager representing the PIU;
6. The General Logistics Directorate within the Ministry of Interior, as a structure that issues the Urban Certificate and issues the Demolition Permit / Building Permit
7. The Romanian authorities issuing the necessary approvals and permits for the construction works.
8. The technical staff of the Contractor responsible for the execution of works, in his capacity as supervisor of the works to be performed.

9. Any other Romanian entities, which, in accordance with the legislation in force, are involved in the documentation and technical assistance development stages.

The Consultant is obliged to notify and communicate to the PIU-Project Implementation Unit each technical discussion established with the entities presented above.

F. CONSULTANT PROFILE and TEAM QUALIFICATION REQUIREMENTS

The Consultant may be an eligible firm/organization/Joint-Venture(JV) with or without a sub-consultancy that is required to meet the following criteria on expertise requirements:

- minimum 2 similar relevant projects on developing Technical design and providing Technical assistance for the construction works execution, implemented during the last 5 years;

- extensive knowledge of the relevant Romanian legal framework with respect to the demolition/construction works design, methodologies norms and normatives, etc.

The Consultant's team shall include, but not limited to, the following key experts:

Team Leader

- arhitect or civil construction engineer with at least 10 years of experience;
- relevant expertise of minimum 5 years in the technical design management;
- similar position undertaking similar job responsibilities for at least 3 similar assignments;

Arhitect

- minimum 8 years of relevant expertise in into architectural design;
- similar position undertaken in at least 3 similar assignments.

Civil construction engineer

- minimum 8 years of relevant expertise in civil engineering design;
- similar position undertaken in at least 3 similar assignments;
- previous experience in consolidation works execution is a plus.

Mechanical engineer

- minimum 8 years of relevant expertise in mechanical engineering design;
- similar position undertaken in at least 3 similar assignments.

Electrical installations engineer

- minimum 8 years of relevant expertise in the electrical engineering design;
- similar position undertaken in at least 3 similar assignments.

Water supply&sanitation installations engineer

- minimum 8 years of relevant expertise in the water supply&sanitation engineering design;
- similar position undertaken in at least 3 similar assignments.

Cost estimate engineer

- minimum 8 years of relevant expertise in the elaboration of cost estimate, according to the specific regulations in force;
- similar position undertaken in at least 3 similar assignments.

For the performance of the assignment to be achieved according to the ToRs, The Consultant shall may present additional experts and auxiliary staff, according to the objectives of the assignment.

ANNEX A - THE TOTAL ESTIMATED AMOUNT OF THE INVESTMENT COSTS

For Demolition and reconstruction of the Headquarters Mizil Fire Detachment within the Inspectorate for Emergency Situations "Şerban Cantacuzino" Prahova County

According to the Feasibility Study that has been reviewed and approved by the Technical Economic Council of MoIA, the maximum indicator values, i.e. the total amount of the investment costs, being expressed in lei, the amount including/excluding VAT respectively, and the amount representing the demolition and construction & installation works costs, as referred to in the **General Estimate**, are described below:

	VAT excluded amount		**VAT**		**VAT included amount**	
	(Lei)	(Euro)*	(Lei)	(Euro)*	(Lei)	(Euro)*
TOTAL	**5.316.982,47**	1.138.540,14	**1.010.226,67**	216.332,63	**6.323.209,14**	1.354.862,77
out of which: demolition+ construction+ installation works costs	**4.684.433,55**	1.003.090,74	**890.042,37**	190.587,23	**5.574.475,92**	1.193.677,93

(*) 1 Euro=4,67 Lei

For the final achievement of the investment, the cost indicators above, being previously approved by the Technical Economic Council of MoIA, must cover the actual costs of the investment.

ANNEX B – Quality Assurance Requirements

In order to meet the respective legal framework requirements, the technical documentation shall meet the following criteria:

- The technical documentation must comply with the quality assurance requirements as stipulated by the relevant provisions of the in-force regulations addressing technical prerequisites, and also of the contractual clauses;
- The technical documentation shall be submitted to the certified technical verifiers, and all their related to comments, identified non-compliances and inconsistencies shall be resolved and shall be submitted further to the beneficiary entity;
- The technical documentation shall clearly define the key works execution phases.

Taking into account the provisions of the Law no. 10/1995 with respect to the works quality assurance requirements, with its subsequent amendments and supplementing regulations, the Consultant has the following obligations (and with no additional costs for the Client):

- To specifiy, in the technical documentation, the significance category of the construction;
- To indicate the works construction plan;
- To provide, in the technical documentation, the detailed drawings, the corresponding works performance according to the relevant requirements, complying with the specific technical regulations and contractual provisions;
- To submit the technical documentation to the certified technical verifiers, and to sort-out the identified non-compliances and inconsistencies;
- To develop the technical instructions with respect to the works executions, the building exploitation, maintenance and repair activities, and also the technical documentation for the tracking of the construction behaviour in time;
- To establish, through the technical documentation, the key works execution phases for the subject works, complying with the essential requirements, and to fully participate, on the works site, to the respective quality checking activities;
- To participate to the development of the building technical book and to the reception of the works accomplishment.

In addition, the Consultant's obligations are, and with no supplementary costs incurred for the Client for the related to services, to provide fully support to the Client during the procurement procedure for awarding the contract for the works executions (for example, for providing relevant information in order to elaborate the clarification responses to the prospective bidders); also the Consultant shall participate to the reception of the works site.

The Technical Assistance services (TA) provided by the Consultant during the duration of the works execution shall be consistent with the legal provisions in force concerning technical assistance, and with the obligations stipulated in these Terms of reference:

- The Consultant shall provide, whenever the Client or the Contractor shall request so, technical solutions, specifications or clarifications related to the consistency with the applicability of the Technical Documentation in the works site. The incurred amendments, based on objective reasons, to the Technical Documentation, the bidding documents or to the works quantities, shall be performed only by the Consultant and shall be undertaken by the technical specialists and the certified technical verifiers. The travels to the works site shall be made according to the works schedule as follows: on his own initiative, further to the construction site manager's request, upon

his own consideration, on a needs basis, or further to the Contractor's notification in this respect. The Consultant's fees&costs related to these travel costs (travel&accommodation&subsistence expenditures, staff fees) are included within the Consultant's costs.

- The Consultant shall promptly respond to the Client's requirements related to any additional information or supplementary details, shop drawings, etc., as soon as possible. The issued shop drawings shall be registered and filed, and when these documents shall determine financial, works schedule amendments, they shall be backed up by supporting documents;
- The Consultant is accountable for the Contractor's compliance with the provisions of the Technical Documentation and of the relevant specific legal framework in force.

The Consultant shall undertake the obligation to attend the meetings being organised on a needs basis by the Client or the Contractor, at the works site .

Also, for all the reception activities which shall occur during this assignment , the Consultant is responsible and accountable for being consistent with the relevant legal provisions in force.

The following regulations shall be applicable for all the documentation, in whole or in part, that shall be issued, developed, signed and stamped:

- The Government Decision no. 907/2016 with respect to the phases for the development and the content of the technical-economical documentation related to the accomplishment of the investments financed by public funds;
- MoIA Order no.7/2019 with respect to the defining, the development and the approval of the technical-economical documentation related to the investments and/or intervention works on existing buildings, that are included in the MoIA programs (the MoIA Order no. 597/2008 is repealed);
- The Law no.10/1995 with respect to the works quality assurance, re-published in the National Official Gazette, Part I no. 765 of 09/30/2016, modified by the Law no. 177/2015, the Governmental Emergency Ordinance no.6 of 02/22/2018, the Governmental Emergency Ordinance no. 84 of 09/13/2018 and the Law no. 97/2019;
- The Law no. 50 (r2) of 0729//1991 with respect to the authorisation of the works execution – republished in the National Official Gazette, Part I no. 933 of 10/13/2004, with its subsequnt amendements, including by the Law no. 117 of 06/20/2019,
- All other relevant national or European legal framework in force.

The verification of the quality assurance related to the technical documentation has the objective of the works quality accomplishment to an extent at least equal with the minimum performance levels as stipulated by the Law no. 10/1995 with respect to the works quality assurance requirements, with its subsequent amendments and supplementing regulations:

- o The requirement A – the structural endurance and stability;
- o The requirement B – the safety in construction exploitation;
- o The requirement C – the fire safety provisions;
- o The requirement D – human hygiene&health measures, environment safety and protection regulations;
- o The requirement E – thermal & water insulation and energy saving regulations;
- o The equirement F – noise protection measures;
- o The requirement I – the performance of all kinds of installations.

The verification of the technical documentation quality assurance that shall be provided by the certified technical verifiers must be a mandatory requirement to be fulfilled for any technical economical documentation that shall be issued and developed under this assignment.

The certified technical verifiers' professional activity shall be accomplished also during the works execution, in order to undertake&certify , through the issued documents, that all the modifications/amendments addressing the technical-economical documentations are complying with the variation orders that could occur during works execution.

The hiring, on a contractual basis, of the certified technical verifiers shall be accomplished through a specific selection method to be followed by the PIU.

The Consultant has the obligation to maintain a continuous communication with the certified technical verifiers mentioned above and to incorporate all their comments/considerations in the technical documentation, including the respective certification signed by the works site manager.

ANNEX C - DOCUMENTATION FOR OBTAINIG THE DEMOLITION PERMIT for THE EXISTING CONSTRUCTION

This documentation shall be delivered together with the documentation for organizing the execution works for the demolition of the existing construction

I. the Written parts

I.1. the Schedule and the designers' signatures;

Shall be completed with the designers' name in clear and the respective quality, as well as the part of the design they are responsible for.

I.2. the Memoire

I.2.1. General data

The Description of the construction to be demolished:

- short history: construction year, well-known craftsmen, designer, other characteristic data;
- description of structure, constituent materials, architectural style;
- the general description and the description of the patrimonial or decorative elements to be taken;
- color pictures - 9 x 12 cm - of all facades and, where appropriate, showcases resulting from the assembly of multiple photos;
- the description of the works that are the subject of the project for the authorization of the demolition works (the demolition permit).

II. the Drawings

II.1. the Placement plan

- the topographic top sheet covered by the Land Office and Territorial Publicity Office, represented in, as appropriate: 1: 10,000; 1: 5,000; 1: 2,000 or 1: 1,000 scale drawings.

II.2. the Construction Site Plan

- the topographic base submitted by the territorial office of land registration and the real estate publicity, represented in, as appropriate:1: 2,000; 1: 1,000; 1: 500; 1: 200 or 1: 100 scale drawings.
- the cadastral parcel for which the Urban Certificate was issued;
- the location of the construction that will be maintained or dismantled;
- the arrangement of the land after the demolition of the constructions;
- the vertical systematization of the land and the drainage of rainwater;
- the existing vegetal plantations that remain after the demolition.

On the floor, the existing elements, the ones that are being demolished and the proposed ones - site plan, new constructions or land fillings, plantations etc., as the case may be, will be clearly indicated.

II.3. The Underground Construction Plan

It shall include their location, especially of the urban utilities networks in the site area: the trails, the dimensions, the level elevations for the positioning of the dormitories (radiator and cover), and will be represented in 1: 500 scale.

In the case of the lack of public networks of the technical and municipal equipment, it is necessary to indicate its own facilities, especially for the water supply and sanitation.

II.4. The report of the construction to be dismantled

The drawings will be represented in 1: 100 or 1:50 scale, in order to highlight the existing spaces and functions, indicating the existing quotas, surfaces and materials:

- the plans of all levels and the roof plan;
- the main sections: the transversal, the longitudinal ones, other characteristic sections, as appropriate;

- all the facades.

In the event that the demolition works requires complex technical operations, the design for organizing the execution of the works will be presented.

Each drawing presented in Section II "Drawings" will have on the bottom right a cartridge containing: the name of the company or designer, the registration number or the authorization number, where applicable, the name of the investment, the title of the design and the plan, the number of the design and the plan, the date of preparation, the name, the quality and the signature of the developers and the design team leader. Cartridge according to the Annex 3 of the Methodological Norm for the application of Law 50/ 91 modified according to the Order no. 839 of 12/10/2009.

ANNEX D- DOCUMENTATION FOR THE BUILDING PERMIT OF THE NEW CONSTRUCTION

that shall be delivered together with the documentation for organizing the execution of the construction works for the new construction.

I. the Written parts:

I.1. the Schedule and the designers' signatures

Shall be completed with the designers' name in clear and the respective quality, as well as the part of the design they are responsible for.

I.2. the Technical Memoir

I.2.1. General information:

The Description of the works subject to authorization, referring to:

- the site, its topography, the drawing of the works;
- the specific climate and natural phenomena;
- the specific data on geology and seismicity;
- the importance category of the objective.

I.2.2. The technical memoirs on each specialty

The works description by:

- architecture;
- structure;
- installations;
- facilities and technological installations, as appropriate;
- external arrangements and vertical systematization.

I.2.3. the Urban data and indicators that characterize the projected investment included in the appendix to the submitted application for obtaining he permits/authorizations:

- the respective surfaces - built, built and useful; existent/proposed
- the construction heights and number of levels; existent/proposed
- the volume of construction; existent/proposed
- the percentage of land occupation - P.O.T.; existent/proposed
- the land use coefficient - C.U.T. existent/proposed

I.2.4. The general estimate that has been developed according to the legal provisions in force

I.2.5. the Appendices to the Technical Memoir

I.2.5.1. the Geotechnical study – which has been previously accomplished

I.2.5.2. the Design verification reports in accordance with the legislation in force drawn up by the certified verifiers, previously hired by the investor.

I.2.5.3. the Topographical study - which has been previously accomplished

The topographic study will be completed as necessary to include all the elements required for the investment objective: the property limits, the STEREO 70 coordinates for the points demarcating the property limits, the level quotas/heights, and it shall describe the constructions, the utilities, the access alleys, the green spaces, the trees - specifying the trees species (eg walnut trees, firs, etc.), the OCPI permit. In the case of the preservation of the existing constructions, the zero quota for each construction will be marked, the level of the access platforms in the construction and other external platforms, the cornice and the chutes of the existing constructions.

II. Drawings

II.1. General drawings

II.1.1 the Site plan

- the representation in 1: 10.000, 1: 5.000, 1: 2.000 or 1: 1000 scale, on a case-by-case basis, issued by the cadastre office and territorial real estate publicity

II.1.2. the Site plan for the location of the investment objectives

- the plan with representation of the relief, drawn in the Stereographic Projection System 1970, the representation in 1: 2,000, 1: 1000, 1: 500, 1: 200 or 1: 100 scale, on a case-by-case basis, targeted by the cadastre office and territorial real estate publicity which will represent:

• the construction, identified by its cadastral number, for which the Urban Certificate was issued, described by the totality of the topographical determinants for the surface, the length of the sides, the angles, including the position and the ridge height of the neighboring urban, as well as the position of

the fixed and moving markers;
• the location of all the constructions that will be maintained, demolished or built, as the case may be;
• the dimensions of the designed and maintained constructions on the three dimensions (allowances ± 0.00, level quotes, location distances, axes of the pavements, alleys, the platforms and the other similar data);
• the names and destinations of each construction body;
• the vertical systematization of the land and the drainage of rainwater, where the land gradient is greater than 10%;
• the pedestrian and car access roads and construction, the planned plantations;
• the land plot of the area in the case of non-enclosed construction subject to the property restitution laws.

II.1.3. the Underground Construction Design

It will include their location, especially of the urban utilities networks: trails, dimensions, level elevations for the positioning of the manholes – the radiator and the lid - and will be represented in 1: 500 scale.

In the case of no public networks of technical and municipal amenities, the design' s own facilities, as provided by the technical documentation, especially for the water supply and sewerage shall be indicated.

II.2. The specific drawings on each speciality

II.2.1. Architecture

The architecture design will include the main architectural drawings of each object, represented in 1:50 or 1: 100 scale, as follows:

- the quoted drawings of all underground and above ground levels, indicating the functions, the dimensions and the surfaces;
- the roofs drawing - terrace or roof - with the indication of the slopes of the meteoric waters and the manner of collecting them, including the indication of the materials from which the roofs have been manufactured;
- the characteristic sections - especially on the highest slope, where appropriate, with a ± 0.00 elevation, the elevations of all levels, the heights of the roof - the ridges and the cornice - the foundations of the neighboring construction at which joins the designed constructions to be executed;
- all facades, indicating the materials and the finishing materials, including their colors, being quoted and indicating the connection at the ground level;
- In the case of the integration of the constructions in an existing front, the street development plan will be presented, that will show how to integrate them in the existing urban structured plan.

II.2.2. the Structure

II.2.2.1. the Foundation drawing

Shall be represented in 1:50 scale and it will reveal:

- how to observe the conditions of the geotechnical study;
- the protection measures referring to the foundations of the neighboring constructions, to which the designed construction shall join, wherer applicable.

II.2.2.2. the Project structure

II.2.3. Installations

II.2.3.1. Installations layouts

Here are the main parameters and functional schemes of the designed installations.

II.2.4. Technological facilities and installations

If the investment is designed in order to be operational on the basis of provided technological equipment and facilities, thus determining the planimetrical configuration of the constructions, there will be presented:

II.2.4.1. the Overall drawings

II.2.4.2. the Flows of the technological flow

Each drawing to be presented in the Section II "Drawings" shall have on the bottom right a cartridge, which shall include: the name of the company or the designer, the registration number or the authorization number, as appropriate, the title of the design and the drawing, the design number and the drawings, the date of preparation, the name, the quality and the signature of the developers and the design team leader. Cartridge according to the Annex 3 of the Methodological Norm for the application of the Law 50/ 91, being modified according to the Order no. 839 of 10/12/2009.

ANNEX E - DOCUMENTATION FOR THE ORGANIZATION OF THE DEMOLITION/CONSTRUCTION WORKS

The Site Works Permit is necessary in all cases where an investment is made and is usually presented together with the technical documentation for the authorization of the execution of the construction works, according to the law.
The technical documentation for organizing the works execution must include a description of all provisional and necessary preparatory works in order to ensure the technology of investment execution, both on the investment site and on the temporarily occupied premises, including those on the public domain, as it follows:

I. the Written parts
I.1. the Schedule and the designers' signatures;
To be completed with the Designer's (print) name and his respective quality, as well as the part of the project they are responsible for.
I.2. The Memoir
It will include:
- the description of the provisional works: the organization of the premises, the location of the constructions, the facilities and material deposits;
- providing and procuring the materials and the equipment;
- ensuring the temporary connection to the urban utilities network in the site area;
- the specifications on accesses and fences;
- the safety protection measures shall be specified.

II. the Drawings
The Site plan
a) in the larger works, the drawings according to the site plan regarding the location of the investment objectives, including the location of the investment and all the facilities and the temporary constructions necessary for its achievement;
b) In the smaller works the elements of organizing the execution of the works can be presented also in the site plan regarding the location of the investment objectives, for the authorization of the construction works.
Each drawing to be presented in the Section II "Drawings" shall have on the bottom right a cartridge, which shall include: the name of the company or the designer, the registration number or the authorization number, as appropriate, the title of the design and the drawing, the design number and the drawings, the date of preparation, the name, the quality and the signature of the developers and the design team leader. Cartridge according to the Annex 3 of the Methodological Norm for the application of the Law 50/ 91, being modified according to the Order no. 839 of 10/12/2009.

ANNEX F - THE DOCUMENTATION FOR THE "TECHNICAL DESIGN" DEVELOPMENT

The "Technical Design" shall have to be elaborated as to provide clarity, to provide complete technical information on the works to be accomplished in order to meet the technical, economic and technological requirements of the beneficiary.

A. the WRITTEN PARTS

I. the General technical memoir

I.1. the General information on the investment objective

I.1.1. the Name of the investment objective

I.1.2. the Location

I.1.3. The administrative act by which the feasibility study / the documentation for the endorsement of the intervention works has been approved according to the legal framework in force

I.1.4. the Principal Authorizing Officer

I.1.5. the Investor

I.1.6. The investment beneficiary

I.1.7. The Designer of the "Technical Design"

I.2. the Presentation of the approved scenario / option (s) within the feasibility study / documentation on the authorization of the intervention works

I.2.1. the Particularities of the site, including:

a) the description of the site;

b) the topography data;

c) the data on the climate and the natural phenomena specific to the area;

d) information on specific geology and seismicity;

e) the deviations and protection of the affected utilities;

f) the sources of water, electricity, gas, telephone lines and the other similar, for the definitive and the provisional works;

g) the permanent access roads, the communication paths and all other similar ones;

h) the temporary access routes;

i) the assets of the immovable cultural heritage.

I.2.2. The technical solution comprising:

a) the technical characteristics and parameters specific to the investment objective;

b) the constructive variant of realizing the investment;

c) the works traceability;

d) the protection of the executed works and of the materials of the works site;

e) the works site organization.

II. the Technical Memoirs on specialties

a) the Architectural Memoir - contains the description of the architectural works, specifying the equipment and equipment specific to the function;

b) The technical memoirs addressing the domains / sub-domains of construction works;

c) The technical memoirs corresponding to the specialties of installations, specifying the equipment and each specific equipment to each function.

III. the Calculation Breviary

The Calculation breviaries are the supporting documentations for sizing the elements of constructions and installations and are elaborated distinctively for each element of construction works. They shall specify the loads and calculus assumptions, the calculation connections, the calculation methodology, the checks and sizing to be done, as well as the calculation programs to be used.

IV. the Specifications

The specifications are integral parts of the "Technical Design", which regulates the performance level of the works accomplishment, as well as the requirements, the technical and the technological conditions, the quality conditions for the products to be incorporated in the works, the tests, including the technological ones, the tolerance levels and other similar ones, which shall guarantee that the required quality and performance requirements are met.

The specifications are elaborated by the designers, who shall provide, observing the relevant regulations, the design services with respect to the constructions and the installations for the constructions, by specialties, by developing the technical elements included in the drawings, and whose requirements shall not be restrictive.

The specifications, together with the drawings, must be designed so that, on the basis of them, it is possible to determine the quantities of works, the costs of the works and equipment, of the labor force and of the equipment necessary for the works execution.

The development of the specifications must be concise and structured.

IV.1. The role and the purpose of the specifications:

a) to represent the description of the technical and qualitative elements mentioned in the drawings and to present the information, the specifications and the prescriptions to complement the drawings;

b) to detail the notes and to include the characteristics and the qualities of the materials used, their tests, to describe the works to be performed, the quality, the manner of execution, the tests, the checks and the verification tests, the order of the works execution and of the parts assembly and the final result;

c) to provide the method of tracking the investment behavior in time;

d) to provide the measures and actions to be preformed for the dismantling / demolition activities (including the waste reintegration into the natural environment) after the expiry of the life period (post-use).

IV.2. Types of specifications

IV.2.1. Depending on the category of importance of the investment objective, the specifications can be:

a) specifications of general tasks, which refer to current works in the field of constructions and which are elaborated for all investment objectives;

b) specification books, which refer to specific works and which are drawn up independently for each work.

IV.2.2. Depending on the destination, the specifications can be:

a) specifications for the execution of the works;

b) specifications for the suppliers of the materials, the semi-finished goods, the machinery, the technological equipment and the various garments;

c) specifications for the reception activities, tests, samples, checks and commissioning;

d) specifications for monitoring the time behavior of the constructions and the content of the technical book.

IV.3. the Content of the technical specifications:

a) the nomination of the drawings, the component parts of the "technical design", which is prevailing;

b) the description of the investment objective; appearance, form, characteristics, dimensions, tolerances and the like;

c) the description of the execution of the works, of the specific technical execution procedures and the stages regarding the execution of the execution;

d) the measurements, tests, checks, verifications and the other necessary similar activities to be performed during the execution of the investment objective;

e) the physical, chemical, related to the appearance, the quality, the tolerance tests, the checks and the other similar tests to be perfomed by the products / materials to be used in the investment objective;

f) the standards, norms and other prescriptions to be observed in the case of execution, the products / materials, garments, prefabricated elements, machinery, assembly, tests, checks;

g) the conditions regarding the reception.

V. the Lists of work quantities

This chapter will contain all the elements necessary for the costs quantification amount of the works and shall include:

a) the consolidated list of the costs, by objective (form F1);

b) the consolidated list of the costs by categories of works, by objects (form F2);

c) the lists with the quantities of works, by categories of works (form F3);

d) the lists of the related quantities foe each technologic equipment and for each item of machinery, including the amenities (form F4);

e) the data sheets on the technical caracteristics of the technological equipment and of the machinery, including the amenities (form F5);

f) the lists of quantities of works for the provisional constructions OS (site organization) (Form F3 may be used).

NOTE: the Forms F1-F5, completed with unit prices and amounts, shall become forms for the bids quotation and will be used for the elaboration of the situations of the executed works, for the purpose of settlement.

VI. the General chart for the accomplisment of the public investment (Form F6)

The General chart for the accomplishment of the public investment represents the physical grading/implementation progress of the investment / intervention works.

NOTE: the Forms F1-F6 are an integral part of Annex no. 10 to the Governmental Decision no.907/2016.

B. DRAWINGS

They are the main documents of the "technical design", on the basis of which its written parts are elaborated, containing all the necessary information for the elaboration of the specifications and which usually consist of:

I.1. General drawing plans

These are general drawings and include:

a) the framing board in the area;

b) the plans for placing the leveling and planimetric markings;

c) the main topographic maps;

d) the plans for the location of the boreholes and the geotechnical profiles, with the registration of the conditions and recommendations regarding the founding works;

e) the main boards for the location of the objects, with the inscription of level quotas, of the distances of placement, orientations, coordinates, axes, leveling and planimetric markings, of the dimension ± 0,00, of the sidewalks quotas, of the quotas and the main locations of distances of roads, sidewalks, walkways, platforms and the like;

f) the main floor plans for the vertical systematization of the land, with the recording of the volumes of earthworks, excavations-fillings, land deposits, the volume of the transported land (surplus and deficit), of the works on the vegetal layer, of the specifications on the works machinery and equipment, as well as and other technical and technological information and elements;

g) the main floors regarding the underground constructions, including their location, sections, longitudinal / transversal profiles, dimensions, level dimensions, formwork and reinforcement, the specific areas and requirements of the steel, the class of concrete, waterproofing protections and insulation, protection against soil aggression, corrosion and all the other similar data;

h) the plans for the location of the fixed and mobile marking marks.

I.2. Speciality drawings

There are technical drawings, which define and explain all the elements of the construction.

It is recommended that each underground / underground object to be identified by its own number / code and name.

The main floorboards are elaborated on objects and generally include:

I.2.1. Architectural drawings

Define and explain all the architectural elements of each object, including dimensions, measurements, distances, functions, areas, details regarding the finishes and their quality and other information of this nature:

- the architectural plans of each level underground (as appropriate) and above ground, including the roofing system, being quoted, indicating the functions and finishes, indicating also the specific furniture;

- the characteristic sections, quoted, indicating the finishes;

- the facades, with the indication of the finishes to be used, including the representation of the framing on the existing street front (as the case may be).

I.2.2. Structural drawings

Define and explain for each object the composition and execution of the resistance structure, with all its characteristics, and include:

- the infrastructure plans and the quoted characteristic sections;

- the plans of the superstructure and the quoted characteristic sections;

- the description of the constructive solutions, the description of the technological order of execution and assembly (only in special situations where this is mandatory), recommendations on transport, handling, storage and assembly.

I.2.3. Installation drawings

Define and explain for each object the location, construction and the execution of the installations, including dimensions, tolerances and all the other similar.

I.2.4. Plates of technological machinery and equipment (if applicable)

They will mainly include the main technology and mounting boards, sections, views, details, including dimensions, tolerances, mounting details, namely:

- the overall drawings;

- the schemes of the technological flow;

- the kinematic schemes, indicating the main parameters;

- the schemes of the hydraulic, pneumatic, electrical, automation, communications, fuel networks, water, lighting and the like, as well as technological installations;

- the mounting boards, indicating the geometries, the dimensions of the location, the benefits, the tasks and other information of the same nature, including the technological schemes of installation;

- the diagrams, nomograms, engineering, technological and assembly calculations, including the graphic material required for commissioning and operation;

- the lists of machines and equipment from the composition of the technological sheets, including records containing their parameters, performances and characteristics.

I.2.5. the Equipment sheets

They include installation and mounting drawings, including the dimensions, the sections, the views, the equipment pictures and other similar info, for:

- the furniture parts;

- the household inventory items;

- the equipments with technical means in the fire fighting activities;

- the equipments necessary for labor safety measures;

- other necessary equipment depending on the specific activities to be undertaken.

NOTE: In the elaboration of the Technical Documentation, the materials, the assemblies, the prefabricated elements, the technological machines and the equipment will be defined by their respective parameters, performances and characteristics.

Standards for workmanship, process, material, and equipment, as well as references to brand names or catalogue numbers that shall be specified to the potential suppliers are intended to be only descriptive and not restrictive, and any other such recommendation could restrict competition by indicating certain preferences.

ANNEX G - DOCUMENTATION OF THE EXECUTION DETAIL DESIGN

The Execution Detail Design, as part of the "Technical Design", is complying with its provisions and is presenting the details on the solutions of composition, assembly, execution, installation and other such operations on parts / elements of construction or installations related to it and which indicate dimensions, materials, execution technologies, as well as links between the structural / non-structural constructive elements of the investment objective.

Depending on the complexity of the Technical Documentation and the nature of the intervention works, as well as in the case of investment objectives whose operation involves specific technological processes, certain execution details can be elaborated / definitive during the execution of the investment objective (The Consultant will specify on the drawings which are the execution details to be elaborated / finalized in this way).

The execution details can be of 3 types:

a) execution details regarding the solutions elaborated by the Consultant;

b) execution details for equipping the investment objective, during the execution, with equipment and equipment, made in compliance with the data and information provided by the suppliers

c) current standardized execution details of design (according to the model details of the suppliers of subassemblies) or execution details depending on the technologic specification of the construction company, which will usually be executed by the manufacturer.

In all the cases listed above, the Consultant, undertaking the assignment related to the Technical Assistance, must supervise the elaboration and the functional adaptation of all the execution detail design, regardless of their elaborator.

ANNEX H – THE ENVIRONMENTAL AND SOCIAL MANAGEMENT PLAN for **Mizil Investment Objective**

1. SOCIAL MANAGEMENT PLAN

The social impacts associated with the demolition of the existing Mizil Firefighter Detachment building and the construction of a new building are considered minor in relation to the World Bank's E&S (Environmental and Social) safeguards and the ESMF (Environmental and Social Management Framework) prepaired for this purpose:

(i) Planning the demolition and new construction works will need to take into account the vicinity of the site to private households (a private property – but not the building – is adjacent to the construction site) and the potential risks to generate any damages to private properties (due to vibrations, during demolition, or dust – e.g. for small vegetable/fruits gardens situated in the proximity of the construction site);

(ii) The connection of the new building to urban infrastructure (gas, electricity, water and wastewater networks) will avoid, as much as possible, any disturbances to neighboring properties (either public or private) in terms of temporary shortages; if there are no options to avoid them, an information campaign, drafted together with the utility providers, will be implemented to inform the public on all the details related to shortages; special measures will be taken into account, if hospitals or other health institutions may experience consequences as part of the demolition/construction works;

(iii) A traffic management plan will be drafted, together with representatives of the Road Police department in Mizil, to assure that disturbances to the local traffic are kept to a minimum and that the risk of road accidents are kept to a minimum; additional measures, such as public information campaigns will make sure that the general public is informed on the congested routes due to construction works, if the case applies; the plan will take into account the population of Roma children living in Mizil, that are not attending school or are not under adult surveillance at all time, in order to avoid any road accidents that may involve unattended children);

(iv) The new building design will need to accommodate separate facilities for women (toilets, showers, locker rooms), given the future uptake of women students in the firefighting educational systems (starting with 2020);

(v) Security measures will need to be in place to only allow access on the site for designated construction teams and avoid any potential accidents involving the general public, especially children that may wander in search of a play area; fences will need to be in place, and the restricted access will need to be signaled through boards and specific signs;

(vi) A grievance mechanism board will need to be installed next to the construction details board, providing instructions on how grievances related to the project can be forwarded to the project team;

(vii) Health and safety measures will be incorporated into a plan that will take into account measures for the Detachment's staff (during relocation of the offices), construction related staff (in line with national legislation and WB safeguards) and the general public (neighbors, pedestrians, etc.) in order to reduce any potential accidents and impacts on human health.

2. ENVIRONMENT MANAGEMENT PLAN

A) Environmental risks

The project is expected to have a net positive environmental impact by reducing the risk of damage and collapse of the selected buildings as a result of earthquakes—a direct positive public safety impact.

The potential adverse impacts of project implementation will be limited and temporary, and are mainly related to construction works which may include:

(i) increased pollution due to construction waste;

(ii) generation of dust, noise, and vibration due to the movement of construction vehicles and machinery;

(iii) associated risks due to improper disposal of construction waste, asbestos and asbestos-containing materials, or minor operational or accidental spills of fuel and lubricants from the construction machinery;

(iv) increase in traffic during construction which may impact community;

(v) impact on workers and community health and safety during construction activities;

(vi) improper reinstatement of construction sites upon completion of works;

(vii) possible negative impacts on buildings with cultural importance;

(viii) unsafe practices during operation of the building.

All these potential environmental impacts are readily identifiable, small scale, and are likely to have minimal impact. They can be effectively prevented, minimized, or mitigated by referencing specific measures to be taken by contractors under close supervision of compliance by GIES-PIU. in the work contracts.

Regarding construction, the regulatory process in Romania addresses hazardous materials, debris disposal, impacts at the site, and cultural heritage impacts. Local and Central government approvals are required at the preliminary design stage, which obliges the responsible agency and its designers to address the full range of environmental issues raised by the proposed investment. In addition, all project construction contracts will include mitigation procedures, and will detail the responsibilities of the contractor in following these and local regulations. Requirements of the inspection, identification, and handling of hazardous materials and construction debris have to be considered. Requirements about contractors to take adequate precautionary and mitigating measures, if materials identified as hazardous are encountered. In addition, all project construction contracts will include mitigation procedures, and will detail the responsibilities of the contractor in following regulations and taking precautionary measures on inspection, identification, and handling of hazardous materials and construction debris.

The project will not finance Category-A activities or activities that target natural habitats or protected sites, and will prohibit those activities that can cause a significant loss or degradation of any significant natural habitat. The environmental screening process will check for the presence of physical cultural resources. In addition, cultural heritage/chance find procedures will be included in all works contracts.

The identified positive environmental impacts of the subproject include:

(i) Improved authorities and citizens' skills and awareness in planning and implementation of local activities, with particular attention to environment protection, and

(ii) Sustainable management of improved infrastructure by authorities and communities, which will bring environmental and social benefits related to natural resources management.

The immediate impact of the proposed investment activities on the environment would be limited. Potential adverse environmental impacts are summarized below and are restricted in scope and severity:

(i) Dust and noise during construction activities;

(ii) Inappropriate disposal of construction debris;

(iii) Unsafe handling of hazardous building materials (e.g. asbestos), if any are encountered;

(iv) Unsafe practices during operation of the building;

(v) Possible negative impacts on buildings with cultural importance.

These risks are anticipated in advance of project implementation and addressed by local regulations and direct mitigation activities in the design, planning and construction supervision process as well as during the operation of the facilities.

The risks listed above are anticipated in advance of subproject implementation and direct mitigation activities will be designed, implemented, monitored and evaluated during pre-construction, construction and operation in a way consistent with national legislation, WB OPs and international good practice.

Use of construction materials that are hazardous to human health (e.g., asbestos, asbestos contained materials) will not be permitted. Asbestos-contained materials waste will be collected, transported and finally disposed by applying special protective measures in accordance with the hazardous waste handling standards.

***B)* Environmental and social management plan and monitoring plan**

a) Site Specific Environmental Screening and Review

As part of the site specific ESMP, all project-supported activities for demolition/ construction of Detachment Mizil will be subjected to a site-specific environmental screening and review process, according to the requirements of the Environmental Protection Law. In accordance with the national legislation, the local environmental authorities have the obligation to submit an Environmental Approval for the anticipated civil works. This process is based on the mitigation of site-specific environmental impacts and uses a standardized appraisal format that includes, but is not limited to the reviewing of:

a) current environmental problems on respective site (soil erosion, water supply contamination, etc.);

b) potential environmental impacts, if any, due to the project (disposal of waste from construction, waste handling and disposal, construction noise and dust etc.);

c) any cultural assets that might be found in the place of construction, and

d) potential pedestrian and vehicle traffic disruption and associated public safety risks.

b) Supervision

The environmental issues including mitigation measures would be supervised periodically by the GIES-PIU staff undergoing works.

The potential negative environmental impacts are expected to be localized or able to be mitigated during the implementation stage. In addition, there are environmental regulations in force in Romania, which make control and supervision of construction works mandatory. Contracts and bill of quantities will include clauses for appropriate disposal of construction debris, including hazardous materials that may be encountered. Existing regulations require, and procurement documents will specify, that no environmentally unacceptable materials can be used. The environmental management guidelines included in Attachment 2 should be provided to contractors engaged in civil works under the project, and should be made an integral part of the civil works contracts.

***B)* Environmental guidelines**

The below list of recommendation is not an exhaustive one but it is highlighting the most relevant mitigation measures that will be considered during construction period. The below sections include more detailed recommendations as per type of impacts:

- Inadequate handling of hazardous materials such as asbestos and paint based on lead from transportation and handling of construction works will be minimized by water and other means such as enclosure of construction sites.
- To reduce noise, construction will be restricted during certain hours.
- All debris construction and wood waste will be stored within the work site.
- Wood waste will be stored separately and arranged to be recycled instead of disposing it.
- Open burning and illegal dumping will not be permitted.

- Proper sites for earth/clay and sand disposal will be determined and prior approval from relevant authority for disposal will be obtained.
- Stock piling of construction debris on site will be avoided and waste will be disposed of on a regular basis at the authorized government dumping ground. Debris chutes will be provided to transfer debris from higher floors to the ground.
- Traffic disruption must be avoided by internal planning

Environmental Management Plan (Mitigation Plan)
Fire-fighter detachment MIZIL

Stage	*Potential risk, impact*	*Suggested mitigation measures*	*Responsable*
Design	Overall impact on the environmental and social components of the project area	• Feasibility, topographic, geological, pedological and oth. studies; • Performing the pre-design environmental assessment of the planned activity ("screening" procedure under Directive 2011/92 / EU on the assessment of the effects of certain public and private projects on the environment); Environmental Impact Assessment for planned activity; • Coordination and approval of design activities in accordance with national requirements and procedures in force; Elaboration of the Section "Environmental Protection" of the Detail Design according to the Construction Norms in force, including adjacent landscaping solutions and energy efficiency; • Elaboration of mitigation measures and environmental monitoring plans for the construction and operation stages; • Ensure the State Ecological Expertise of the Detail Design, and Construction/Demolition Permits activities in accordance with national procedures	DESIGN CIOMPANY + GIES
Demolition	Wastes generation	• Waste collection and disposal pathways and sites will be identified for all major waste types expected from construction activities • Mineral/solid construction and demolition wastes will be separated from general refuse, organic, liquid and chemical wastes by on-site sorting and stored in appropriate places • Construction waste will be collected and disposed properly on authorized landfills by licensed collectors • The records of waste disposal will be maintained as proof for proper management as designed • Whenever feasible the contractor will reuse and recycle appropriate and viable materials	Contractor selected for Demolition works + GIES and Supervizor
	Noise pollution	• Organize work so that time spent in noisy areas is limited • Planning the noise-producing activities so that their performance affects as fewer workers as possible • Implementing work programs to control exposure to noise • Use of sound absorbing materials and filters/barriers to reduce reflected sounds	Contractor selected for Demolition works + GIES and Supervizor
	Air pollution	• During demolition activities it is necessary to reduce dust by spraying with water and / or installation of dust absorption devices • It is strictly forbidden to burn building materials / waste on the ground • For transporting any other dusty material at the work site, it is necessary to moisten or cover the load	Contractor selected for Demolition works + GIES and Supervizor

		• Dust reduction on land during the dry season of the year is done by moistening the soil surface. • On the site, all routes will be arranged so that they do not lead to skidding, mud, ponding, etc. • Vehicles and machines will be properly maintained and will have up-to-date technical revisions. • Workers who carry out the work must wear protective clothing and breathing masks.	
	Health and safety hazards	• Ensure construction workers are given safety instruction, equipment and working clothes • Special instruction/warning signs must be installed on the facility • Ensure safety officers on site • Provide appropriate sanitary and solid waste disposal facilities for use by construction workers • Provide first aid and protection kits • Ensure effective signage for the public and ensure that all exposed construction areas are barricaded from public access	Contractor selected for Demolition works + GIES and Supervizor
Constructi on	Loss of soil resources, land/soil degradation and pollution	• Compliance of the construction Detail Design with the national environmental, industrial safety, construction, architectural, technological and public health regulations • Location of building in place with low soil productivity • Proper design to minimize area under construction • If unfeasible, ensure soil protection through dead and live soil protection structures • Dislocate excavated fertile topsoil (if any) to adjacent agricultural lands • Incorporate protective design features (e.g., drainage structures and plant vegetation on slopes) • A proper rainwater/drainage system should be installed in order to exclude the flooding potential, landslide and/or erosion processes • Avoid, where possible, cutting of trees and other existing local vegetation, etc.	Construction company + GIES and Supervizor
	Noise pollution	• Organize work so that time spent in noisy areas is limited • Planning the noise-producing activities so that their performance affects as fewer workers as possible • Implementing work programs to control exposure to noise • Use of sound absorbing materials and filters/barriers to reduce reflected sounds	Construction company + GIES and Supervizor
	Air pollution	• During construction activities it is necessary to reduce dust by spraying with water and / or installation of dust absorption devices • It is strictly forbidden to burn building materials / waste on the ground	Construction company + GIES and

		• For transporting any other dusty material at the work site, it is necessary to moisten or cover the load • Dust reduction on land during the dry season of the year is done by moistening the soil surface. • On the site, all routes will be arranged so that they do not lead to skidding, mud, ponding, etc. • Vehicles and machines will be properly maintained and will have up-to-date technical revisions. • Workers who carry out the work must wear protective clothing and breathing masks.	Supervizor
	Health and safety hazards	• Ensure construction workers are given safety instruction, equipment and working clothes • Special instruction/warning signs must be installed on the facility • Ensure safety officers on site • Provide appropriate sanitary and solid waste disposal facilities for use by construction workers • Provide first aid and protection kits • Ensure effective signage for the public and ensure that all exposed construction areas are barricaded from public access	Construction company + GIES and Supervizor
	Wastes generation	• Waste collection and disposal pathways and sites will be identified for all major waste types expected from construction activities • Mineral/solid construction and demolition wastes will be separated from general refuse, organic, liquid and chemical wastes by on-site sorting and stored in appropriate places • Construction waste will be collected and disposed properly on authorized landfills by licensed collectors • The records of waste disposal will be maintained as proof for proper management as designed • Whenever feasible the contractor will reuse and recycle appropriate and viable materials	Construction company + GIES and Supervizor
Operation	Excessive energy consumption	• Elaborating the plan and implementing the energy efficiency measures in the activity of the new command center • Use of electrical installations and high energy efficiency equipment • Optimal and high-efficiency lighting can reduce the energy consumption • Training the local staff in good practice on equipment maintenance and energy efficiency, including optimal air conditioning • Design and implementation of the energy management system in line with good international practices	Beneficiary

	Waste generation, including special (electro-technical, etc.)	• Implementation of the appropriate waste management system, separate collection and storage, provision of recycling and reuse (if applicable); Signaling and special marking; Inventory and record	GIES PIU/ Construction company
	Excessive consumption and contamination of water resources	• Ensure the proper water consumption recording system and means • Planning and implementation of adequate maintenance measures of the distribution system, avoiding leakage and excessive consumption, etc.	GIES PIU/ Construction company
	Air pollution (heating and ventilation systems such as car transport are the major sources of pollutant emissions in air)	• compliance of the thermo-energy sources with the quality standards with obtaining the Pollutant emissions permit in the atmosphere • inventory and reporting of the resources consumption • the proper management of household wastes • maintenance and operation of the transportation means in the appropriate way, etc.	GIES PIU/ Construction company
	Noise, acoustic pollution	• identification of sources generating noise, • monitoring and measurement of noise levels, • monitor the health state of staff and inmates, • applying technical measures to reduce the noise level, • appropriate signaling of high-noise locations, • training employees and inmates about the risks they are exposed to, etc.	GIES PIU/ Construction company
	Safety and human health	• Regular training on safety and health • Informing the local staff about the exceptional situations • Displaying in an open place the Action Plan in exceptional circumstances • Training on individual and collective protection procedures and measures applied in exceptional situations • Provide protection equipment according to the requirements and the rules in force • Annual medical examination of the company personnel, etc.	GIES PIU/ Construction company

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The technical requirements of the Terms of Reference and Annexes are informative, requiring minimum conditions. The requirements of the latest versions of the legislation and regulations in force will also be respected,,