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**REQUEST FOR QUOTATION (RFQ 41/2020)**

**(Services)**

**Preparing Technical documentation for Transport Infrastructure in selected Municipalities (Lot 1,2,3,4 and 5)**

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| 00106869 Building Municipal Capacities for Project Implementation | DATE: May 19, 2020 |
| REFERENCE: RFQ 41/2020 |

Dear Sir / Madam:

We kindly request you to submit your quotation in MKD, VAT excluded for **Preparing Technical documentation for Social Infrastructure in selected Municipalities – LOT 1, LOT 2, LOT 3, LOT 4 and LOT 5**, as detailed in Annex 1 of this RFQ. When preparing your quotation, please be guided by the form attached hereto as Annex 3.

Quotations may be submitted on or before June 02, 2020, 10.00 am via dedicated email: **offers.mk@undp.org**

Subject: MKDRFQ41/2020– Building Municipal Capacities for Project Implementation

It shall remain your responsibility to ensure that your quotation will reach the address above on or before the deadline. Quotations that are received by UNDP after the deadline indicated above, for whatever reason, shall not be considered for evaluation.

Please take note of the following requirements and conditions pertaining to the supply of the abovementioned good/s

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| Delivery Terms  [INCOTERMS 2010]  *(Pls. link this to price schedule)* | ☐FCA  ☐CPT  ☐CIP  ☐DAP  ☒n/a | |
| Customs clearance[[1]](#footnote-1), if needed, shall be done by: | ☐UNDP  ☐Supplier/Offeror  ☐Freight Forwarder | |
| Exact Address/es of Delivery Location/s (identify all, if multiple) | LOT 1 Municipalities of Gradsko  LOT 2 Municipality of Rankovce  LOT 3 Municipality of Karbinci  LOT 4 Municipality of Stip  LOT 5 Municipalities Konche and Radovish | |
| UNDP Preferred Freight Forwarder, if any[[2]](#footnote-2) | N/A | |
| Distribution of shipping documents *(if using freight forwarder)* | N/A | |
| Latest Expected Delivery Date and Time *(if delivery time exceeds this, quote may be rejected by UNDP)* | ☒ for Lot 1, and Lot 3: 15 June 2020 – 30 September 2020  ☒ for Lot 2: 15 June 2020 – 15 October 2020  ☒ for Lot 4 and Lot 5: 15 June 2020 – 1 December 2020  ☒ As per Delivery Schedule in the TOR  Time Zone of Reference: | |
| Delivery Schedule | ☒Required  ☐Not Required | |
| Packing Requirements | n/a | |
| Mode of Transport | ☐ AIR | ☐LAND |
| ☐SEA | ☐n/a |
| Preferred  Currency of Quotation[[3]](#footnote-3) | ☐ United States Dollars  ☐Euro  ☒Local Currency: MKD | |
| Value Added Tax on Price Quotation[[4]](#footnote-4) | ☐ Must be inclusive of VAT and other applicable indirect taxes  ☒ Must be exclusive of VAT and other applicable indirect taxes | |
| After-sales services required | ☐ Warranty on Parts and Labor for minimum period of 1 year  ☐ Technical Support  ☐ Provision of Service Unit when pulled out for maintenance/ repair  X n/a | |
| Deadline for the Submission of Quotation | *Tuesday, June 02, 2020 at 10am* | |
| All documentation produced  shall be in this language | ☐ English  ☐ French  ☐ Spanish  ☒ Macedonian | |
| Documents to be submitted | **FOR ALL LOTs – the bidder should submit the following documents:**  ☒ Registration of the Company; (Tekovna sostojba).  **FOR LOT 1 – the bidder should submit the additional documents:**  **FOR THE COMPANY**  ☒ The Company Profile (general company experience of minimum 5 years in developing of technical documentation in the field of transport infrastructure project design, development of Environmental Studies, and similar).  ☒ minimum license B for design in civil engineering design  ☒ Record of minimum 2 completed projects of comparable size and degree of complexity (e.g. development of technical infrastructure and main designs for (re)construction of local roads, streets including (re)construction of walkways, water supply or wastewater or stormwater, and electrical lighting). List of projects to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  **FOR THE KEY EXPERTS**  ☒ List and CVs of all key experts  ☒ Readily available references from clients are welcomed  **Main Engineer - Civil Road Engineer**  ☒ University degree in Civil Engineering  ☒ Minimum Authorization B for civil engineering design.  ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport infrastructure.  ☒ Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in road/street infrastructure, e.g. construction or reconstruction of local/regional roads or streets including walkways. List of projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  **Civil / Hydrotechnical Engineer**  ☒ Minimum university degree in Civil Hydrotechnical Engineering.  ☒ Minumum Authorization B for civil engineering design.  ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of water supply / wastewater / stormwater infrastructure.  ☒ Record of at least (Table 01)   * 1 relevant completed project that include preparation of infrastructure and/or main (basic) designs for local water supply network * 1 relevant completed project that include preparation of infrastructure and/or main (basic) designs for local wastewater or stormwater network   **Electrical Engineer**  ☒ Minimum Authorization B for electrical engineering design.  ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of electrical infrastructure.  ☒ Record of at least 2 relevant completed projects (Table 01) that include preparation of infrastructure and/or main (basic) designs in road/street lighting infrastructure, e.g. construction or reconstruction of local roads/street electrical lighting installations and cabling. List of projects to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons  ☒ Financial offer, VAT presented separately  **FOR LOT 2 – the bidder should submit the additional documents:**  **FOR THE COMPANY**  ☒ The Company Profile (including general company experience of minimum 5 years in developing of technical documentation in the field of transport (roads) infrastructure project design, development of Environmental Studies, and similar).  ☒ minimum license B for design in civil engineering  ☒ Record of minimum 2 completed projects of comparable size and degree of complexity (e.g. development of technical infrastructure and main designs for (re)construction of local roads, streets including (re)construction of culverts, channels and other local road objects). List of projects to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  **FOR THE EXPERTS**  ☒ List of CVs of all key experts  ☒ Readily available references from clients are welcomed  **Main Engineer - Civil Road Engineer**  ☒ University degree in Civil Road Engineering  ☒ Minimum Authorization B for civil engineering design.  ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport infrastructure.  ☒Record of at least 2 relevant completed projects (Table 01) that include preparation of infrastructure and/or main (basic) designs in local road/street infrastructure, e.g. construction or reconstruction of local/regional roads or streets including culverts, shoulders, drainage channels. List of projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  **Civil Hydrotechnical engineer**  ☒ Minimum university degree in Civil Hydrotechnical Engineering.  ☒ Minimum Authorization B for civil engineering design.  ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of water hydrotechnical and hydrology infrastructure.  ☒ Record of at least 2 completed projects preferably for roads (re)construction that include hydrology analyses and calculations of maximum stormwater flows at watersheds, and calculations for road culvers dimensions. List of both referenced projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  ☒ Financial offer, VAT presented separately  **FOR LOT 3 – the bidder should submit the additional documents:**  **FOR THE COMPANY**  ☒ The Company Profile (general company experience of minimum 5 years in developing of technical documentation in the field of transport, wastewater and electrical infrastructure project design, development of Environmental Studies, and similar).  ☒ minimum license B for design in civil engineering  ☒ Record of minimum:   * 1 completed project of comparable nature and degree of complexity (e.g. development of technical final designs for construction of walkways, cycling tracks, local roads/streets including pedestrian walkways and electrical street lighting etc.) * 1 completed project of comparable nature and degree of complexity (e.g. development of technical final designs for (re)construction of municipal/town/village sewerage or stormwater networks etc.)   List of projects to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  **FOR THE KEY EXPERTS**  ☒ List and CVs of all key experts  ☒ Readily available references from clients are welcomed  **Main Engineer - Civil Road Engineer**  ☒ University degree in Civil Engineering  ☒ Minimum Authorisation B for civil engineering design.  ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport infrastructure.  ☒ Record of at least 2 relevant completed projects comparable nature and degree of complexity that include preparation of infrastructure and/or main (basic) designs in road/street infrastructure (e.g. development of technical final designs for construction of walkways, cycling tracks, for local roads/streets etc. List of projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  **Civil / Hydrotechnical Engineer**  ☒ Minimum university degree in Civil Hydrotechnical Engineering.  ☒ Minimum Authorization B for civil engineering design.  ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of water supply / wastewater / stormwater infrastructure.  ☒ Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs for municipal/town/village wastewater or stormwater network (Table 01)  **Electrical Engineer**  ☒ Minimum Authorization B for electrical engineering design.  ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of electrical infrastructure.  ☒ Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in road/street lighting infrastructure, e.g. construction or reconstruction of local roads/street electrical lighting installations and cabling. List of projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons  ☒ Financial offer, VAT presented separately  **FOR LOT 4 – the bidder should submit the additional documents:**  **FOR THE COMPANY**  ☒ The Company Profile (general company experience of minimum 5 years in developing of technical documentation in the field of transport, wastewater, stormwater and electrical infrastructure project design, development of Environmental Impact Studies, and similar  ☒ License A for design in civil engineering  ☒ Record of minimum2 relevant completed projects comparable nature and degree of complexity that include preparation of infrastructure and/or main (basic) designs for regional or state roads transport infrastructure – Category A transport infrastructure project. List of projects to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  **FOR THE KEY EXPERTS**  ☒ List and CVs of all key experts  ☒ Readily available references from clients are welcomed  **Main Engineer - Civil Road Engineer**  ☒ University degree in Civil Engineering  ☒ Authorization A for civil engineering design.  ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport infrastructure.  ☒ Record of at least 2 relevant completed projects comparable nature and degree of complexity that include preparation of infrastructure and/or main (basic) designs for regional or state roads transport infrastructure – Category A transport infrastructure projects  List of projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  **Civil / Hydrotechnical Engineer**  ☒ University degree in Civil Hydrotechnical Engineering.  ☒ Authorization A for civil engineering.  ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of water supply/wastewater/stormwater infrastructure.  ☒ Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in transport or water/wastewater sector projects Category A List of referenced projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  **Electrical Engineer**  ☒ Authorization A for electrical engineering design.  ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of electrical infrastructure.  ☒ Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in road/street lighting infrastructure, e.g. construction or reconstruction of state/regional roads electrical lighting installations and cabling. List of projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons  **Civil - Structural Engineer**  ☒ University degree in Civil Structural Engineering.  ☒ Authorization A for civil engineering.  ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport structural objects (i.e. retaining walls/culverts etc.)  ☒ Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in road transport infrastructure sector projects Category A including structural objects (i.e. culverts, retaining walls etc.) List of referenced projects(Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  **EIA Expert**  ☒ Authorized EIA expert (from the list of authorized experts at the MoESP)  ☒ At least 5 years of experience in environmental sector.  ☒ Record of at least 2 relevant completed projects that include preparation of EIA in transport sector projects (Category A – Construction Law). List of referenced projects (Table 01)to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  **FOR LOT 5 – the bidder should submit the additional documents:**  **FOR THE COMPANY**  ☒ The Company Profile (general company experience of minimum 5 in developing of technical documentation in the field of transport (roads) infrastructure project design, development of Environmental Studies, and similar  ☒ minimum license B for design in civil engineering  ☒ Record of minimum2 completed projects of comparable size and degree of complexity (e.g. development of technical infrastructure and main designs for (re)construction of local roads, streets including (re)construction of bridges, culverts, channels and other local road objects. List of projects to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  **FOR THE KEY EXPERTS**  ☒ List and CVs of all key experts  ☒ Readily available references from clients are welcomed  **Main Engineer - Civil Road Engineer**  ☒ University degree in Civil Engineering  ☒ Minimum Authorization B for civil engineering design.  ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport infrastructure.  ☒ Record of at least 2 relevant completed projects comparable nature and degree of complexity that include preparation of infrastructure and/or main (basic) designs for construction of new regional or local road transport infrastructure. List of projects (Table 01)to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  **Civil / Hydrotechnical Engineer**  ☒ University degree in Civil Hydrotechnical Engineering.  ☒ Minimum Authorization B for civil engineering design.  ☒At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of water sector infrastructure.  ☒ Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) road transport designs including hydrology and hydrotechnical analyses and calculations for rainwater draining of the local or regional roads. List of referenced projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  **Civil Geomechanical Engineer**  ☒ University degree in Civil Geotechnical Engineering  ☒ Minimum Authorization B for civil/geotechnical engineering design.  ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of civil infrastructure projects including geotechnical soil investigations.  ☒ Record of at least 2 relevant completed projects that include preparation of Geomechanical/geotechnical Reports for construction of new roads transport infrastructure. List of projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons  **Civil - Structural Engineer**  ☒ University degree in Civil Structural Engineering.  ☒ Minimum Authorization B for civil engineering.  ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport structural objects.  ☒ Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs for objects of roads transport infrastructure (structural objects like - bridges and/or culverts and/or retaining walls etc). List of referenced projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  **EIA Expert**  ☒ Authorized EIA expert (from the list of authorized experts at the MoESP)  ☒ At least 5 years of experience in environmental sector.  ☒ Record of at least 2 relevant completed projects that include preparation of EIA in transport sector projects  List of referenced projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons).  ☒ Financial offer, VAT presented separately | |
| Period of Validity of Quotes starting the Submission Date | ☐ 60 days  ☐ 90 days  ☒ 120 days  In exceptional circumstances, UNDP may request the Vendor to extend the validity of the Quotation beyond what has been initially indicated in this RFQ. The Proposal shall then confirm the extension in writing, without any modification whatsoever on the Quotation. | |
| Partial Quotes | ☐ Not permitted  **☒ Permitted [*PER LOTs)*. The bidders can bid to one, two, three or all LOTs. For each LOT the applicant will prepare a separate offer** | |
| Payment Terms[[5]](#footnote-5) | ☐ 100% upon complete delivery of services  **☒ Others – Upon Authorized Reviewer written acceptance report for all deliverables as per national laws and regulations** | |
| Liquidated Damages | ☒ Will not be imposed  ☐ Will be imposed under the following conditions:  Percentage of contract price per day of delay: \_\_\_\_\_\_  Max. no. of days of delay: \_\_\_\_\_\_  After which UNDP may terminate the contract. | |
| Evaluation Criteria  *[check as many as applicable]* | ☒ Technical responsiveness/Full compliance to requirements and lowest price[[6]](#footnote-6)  Comprehensiveness of after-sales services  ☒ Full acceptance of the PO/Contract General Terms and Conditions ☐ Earliest Delivery / Shortest Lead Time[[7]](#footnote-7)  ☐ Others | |
| UNDP will award to: | ☐ One and only one supplier  **☒ One or more Supplier, depending on the following factors: *the lowest offer per LOT will determine the Contract award.*** | |
| Type of Contract to be Signed | ☒ minimi contracts  ☐ Contract Face Sheet (Goods and-or Services) UNDP (this template is also utilized for Long-Term Agreement[[8]](#footnote-8) and *if LTA will be signed, specify the document that will trigger the call-off. E.g., PO, etc.)*  ☐ Other Type/s of Contract | |
| Contract General Terms and Conditions | ☐ General Terms and Conditions for contracts (goods and/or services)  ☒ General Terms and Conditions for de minimi contracts (services only, less than $50,000)  Applicable Terms and Conditions are available at  <http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html> | |
| Special conditions of Contract | Cancellation of PO/Contract ☐ no | |
| Conditions for Release of Payment | ☐ Passing Inspection  ☐ Passing all Testing  ☐ Completion of Training on Operation and Maintenance at all six locations  ☒ Written Acceptance of the design based on full compliance with RFQ requirements verified by Reviewer and accepted by UNDP Project Manager  ☐ Others | |
| Annexes to this RFQ[[9]](#footnote-9) | ☒ TOR of the Services Required (Annex 1)  ☒ List of Company project experience (Annex 2)  ☒ Form for Submission of Quotation (Annex 3)  ☒ General Terms and Conditions / Special Conditions: <http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html>  ☐ Others  Non-acceptance of the terms of the General Terms and Conditions (GTC) shall be grounds for disqualification from this procurement process. | |
| Contact Person for Inquiries  (Written inquiries only)[[10]](#footnote-10) | procurement.mk@undp.org  Any delay in UNDP’s response shall be not used as a reason for extending the deadline for submission, unless UNDP determines that such an extension is necessary and communicates a new deadline to the Proposers. | |

Goods offered shall be reviewed based on completeness and compliance of the quotation with the minimum specifications described above and any other annexes providing details of UNDP requirements.

The quotation that complies with all of the specifications, requirements and offers the lowest price, as well as all other evaluation criteria indicated, shall be selected. Any offer that does not meet the requirements shall be rejected.

Any discrepancy between the unit price and the total price (obtained by multiplying the unit price and quantity) shall be re-computed by UNDP. The unit price shall prevail and the total price shall be corrected. If the supplier does not accept the final price based on UNDP’s re-computation and correction of errors, its quotation will be rejected.

After UNDP has identified the lowest price offer, UNDP reserves the right to award the contract based only on the prices of the goods in the event that the transportation cost (freight and insurance) is found to be higher than UNDP’s own estimated cost if sourced from its own freight forwarder and insurance provider.

At any time during the validity of the quotation, no price variation due to escalation, inflation, fluctuation in exchange rates, or any other market factors shall be accepted by UNDP after it has received the quotation. At the time of award of Contract or Purchase Order, UNDP reserves the right to vary (increase or decrease) the quantity of services and/or goods, by up to a maximum twenty-five per cent (25%) of the total offer, without any change in the unit price or other terms and conditions.

Any Purchase Order that will be issued as a result of this RFQ shall be subject to the General Terms and Conditions attached hereto. The mere act of submission of a quotation implies that the vendor accepts without question the General Terms and Conditions of UNDP indicated above - <http://www.undp.org/content/undp/en/home/procurement/business/how-we-buy.html> .

UNDP is not bound to accept any quotation, nor award a contract/Purchase Order, nor be responsible for any costs associated with a Supplier’s preparation and submission of a quotation, regardless of the outcome or the manner of conducting the selection process.

Please be advised that UNDP’s vendor protest procedure is intended to afford an opportunity to appeal for persons or firms not awarded a purchase order or contract in a competitive procurement process. **In the event that** you believe you have not been fairly treated; you can find detailed information about vendor protest procedures in the following link:

<http://www.undp.org/content/undp/en/home/operations/procurement/protestandsanctions/>

**UNDP encourages every prospective Vendor to** avoid and prevent conflicts of interest, by disclosing to UNDP if you, or any of your affiliates or personnel, were involved in the preparation of the requirements, design, specifications, cost estimates, and other information used in this RFQ.

UNDP implements a zero tolerance on fraud and other proscribed practices and is committed to identifying and addressing all such acts and practices against UNDP, as well as third parties involved in UNDP activities. UNDP expects its suppliers to adhere to the UN Supplier Code of Conduct found in this link : <http://www.un.org/depts/ptd/pdf/conduct_english.pdf>

**Thank you and we look forward to receiving your quotation.**

**Annex 1**

**Terms of Reference**

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| **Consultancy services (Company):**  Preparing Technical documentation for Transport Infrastructure in selected Municipalities in Republic of North Macedonia (Lot 1, Lot 2, Lot 3, LOT 4 and Lot 5) |

Project:  *00106869 Building Municipal Capacities for Project Implementation*

Location Republic of North Macedonia

Languages Required: Macedonian

Expected Duration of Assignment: Lot 1 and Lot 3: 15 June 2020 – 30 September 2020

Lot 2: 15 June 2020 – 15 October 2020

Lot 4 and Lot 5: 15 June 2020 – 1 December 2020

**Background**

UNDP is the development arm of the United Nations system, with offices in 180 countries. Globally the organization employs 17,000 people and manages a budget of USD 5 billion each year.

The UNDP office in Skopje employs a team of 65 and currently manages a portfolio of projects in environmental protection, good governance and social inclusion worth USD 15 million per year.

Local government institutions continue to struggle to improve the quality of life enjoyed by their citizens. To extract tangible benefits from funds available for municipalities from the central government, the European Union (EU), international financial institutions and other donors, municipalities need to strengthen their capacity to prioritize, formulate and implement infrastructure development projects.

The project **Building Municipal Capacity for Project Implementation** aims to address the main challenges of local development and to increase municipal capacities when preparing and designing local development projects. Along with the creation of Municipal development index (MDI), the establishment of the TDF for funding local development projects represents one of the key components of this project. The newly created Fund will channel support specifically to those municipalities that are struggling the most in terms of socio-economic development.

As part of the efforts to address these challenges, **Technical Development Fund** will provide financial support to municipalities in North Macedonia for creation of technical documentation for their most prioritized infrastructure projects. More precisely, the **Technical development Fund (TDF)** will provide direct financial support for the least developed municipalities by providing funding for preparation of technical documentation for their most urgent and priority projects in the field of communal, social and environmental infostructure. The projects with developed technical documentation will be fully eligible for applying for further donor support from relevant international financial and donor institutions such as EU, EBRD, The World Bank and other additional state or donor funding through direct grants or low-interest loans.

The project is providing up to **USD 1 million** in funding to some 30 municipalities to help them address priority needs, particularly for vulnerable groups, with the aim of ensuring better living standards and quality of life for all. Addressing gender equality issues in the local context plays significant role in evaluating and selecting the projects for funding.

In January 2020, UNDP has evaluated more than fifty municipal applications, and thirty-six Municipal Projects were selected for development of technical documentation that includes, but not limited to: infrastructure designs, preliminary and basic designs, feasibility studies etc.) for re-construction or new construction of infrastructure objects/facilities with implementation of Build Back Better (BBB) principle that are eligible for EU, state or IFI donor funding. In the above context, driven by the “leave no one behind” goal, one of the main outcomes of the project is to transparently support least developed municipalities in preparing technical documentation for construction and reconstruction of priority basic infrastructure projects.

UNDP is currently seeking several experienced **Engineering Design Companies** to assist the project **Building Municipal Capacities for Project Implementation**in developing and preparing technical documentation for construction/reconstruction of priority local and/or regional transport infrastructure projects.

The selected Technical documentation preparation Companies are expected to work jointly with the UNDP project implementation team and in close cooperation with the project focal point in the Municipalities in North Macedonia.

**Objectives of the Technical Design Services**

The objectives of the Design Engineering services are to provide the highest quality of engineering design and consulting services required for (re)construction, extension and adaptation of priority transport infrastructure e.q. local or regional roads, town streets, pedestrian walkways, cycling tracks etc. in Municipalities of Karbinci, Rankovce, Stip, Gradsko, Konche and Radovish, implementing build back better principle and resilient transport infrastructure standards.

**Scope of Work**

As described above and the project objectives, with this project scope for the assignment is to develop all required technical designs for (re)construction for resilient transport infrastructure through four LOTs as follows:

**Scope of Work for LOT 1**

The general scope of work for the assignment of LOT 1 is to develop complete technical documentation for **Reconstruction of magistral/regional road, water supply pipeline, stormwater drainage, sewerage collector pipeline, road lighting, construction of pedestrian walkways and cycling track in Gradsko community**. The existing main road “Aleksandar Makedonski” in Gradsko community (on Cadaster numbers KP 28, 975 and 1373), connecting with the state road 1102 – (connection junction A2 Ring-road Skopje, Veles, Gradsko, Negotino, Demir Kapija , Gevgelija junction with A2) was build more than 50 years ago, and almost all ground service lines are nearly at the end of useful service life. This road is connection to the main road lines connecting town Veles and Prilep. Frequent vehicle traffic through the years, has damaged the road pavement and also from the snow plowing during winter periods. Furthermore, it is very difficult to drain the storm water from the road surface, due to very low performance of the worn-out open channels, covered with debris and luck of maintenance. As reconstruction of the main road (with approximate length of 2500 m – see Figure 1 below), detail assessment for renewal or replacement of water supply pipeline, sewerage pipeline should be performed in order to define the detail scope of work. In addition, development of complete technical documentation for (re)construction of the road is needed with construction of pedestrian walkways from both sides of the road, cycle track from one side of the road, water supply, wastewater, stormwater drainage and (re)construction of street lighting with energy efficient measures.

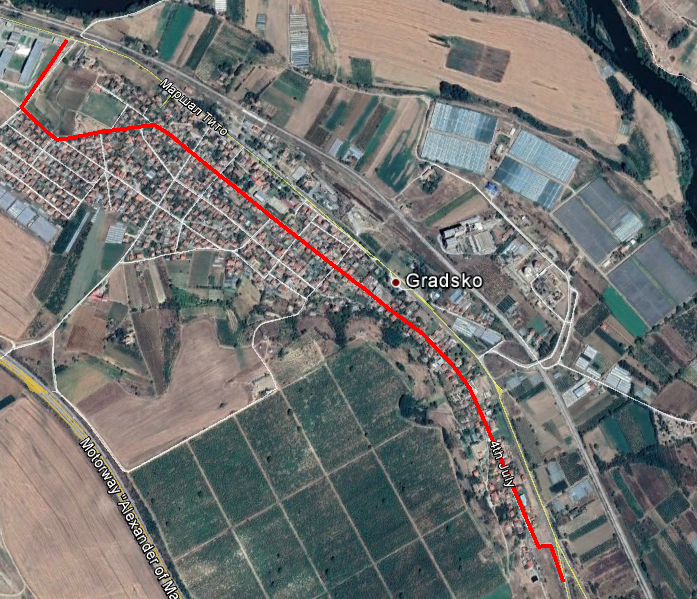


Figure 1- Magistral road (¬2500m)

**Duties and Responsibilities for LOT 1**

Based on the above-described general scope of work for the assignment of the LOT 1 and under the direct supervision of the Design Reviewer, Project Manager, and in close coordination/communication with municipality officials and other project experts, the company shall be responsible for carrying out the following tasks:

**Task 1 for LOT 1:** *Conducting on-site assessment of the condition, performance of the road pavement, water-supply, stormwater drainage, sewerage pipeline, street lighting and other road services.*

Specific activities of the Contractor under this task should include, but not limited to:

1. Baseline data collection, from the detail urban plan for the Gradsko community, takes into account the all (re)construction/extension measures for the road and other line services.
2. Get information from Cadastral documents for the existing road alignment, needed area/dimensions for widening the road with two pedestrian walkways and cycling track and information on land ownership.
3. On-site condition assessment and performance of road pavement and structure (e.g. bedding) replacement or reconstruction needs in terms of visible deformation, deterioration, worn-out etc. Get information from maintenance documents (if any) or interviews with the municipality officials for the road structure, water-supply pipeline(s), wastewater pipeline(s), stormwater drainage, electrical street lighting data along the road alignment (when constructed, last repairs, scope of last repairs / replacements / touchups).
4. Provide assessment report for (re)construction needs for at least next 25 years, based on existing road and other line service assets condition and performance. The Report should include: sketch drawing of existing and proposed/recommended technical measures, table with information about assets (when constructed, remaining useful asset life, and last maintenance activities), and proposed APEX replacement/reconstruction measures for all road structure, line services (water supply, wastewater, storm water drainage), pedestrian walkways, cycling track and electrical street lighting.
5. Develop detail scope of works (proektna zadaca) for reconstruction/extension needs for all road and service lines approved by the municipality officials and UNDP Project Manager.

**Task 2 for LOT 1:** *Development of* *Infrastructure Design for reconstruction of the “Aleksandar Makedonski” road in Gradsko community:*

Specific activities of the Design Engineering Contractor under this task for LOT 1 should include:

1. The development of infrastructure designs for the reconstruction of the road and other service line assets to Comply with valid Macedonian laws, regulations and quality norms in relation to roads, water-supply, wastewater, storm-water, pedestrian and street lighting infrastructure.
2. Baseline data collection, existing road and traffic analysis, in order to align with the detail urban plan for Gradsko community (if any), take into account the reconstruction measures along the local road, the specific topographic characteristics, and to respect all limitations arising from the synthesis map of the restrictions along the alignment of the road. The Contractor should take into account the horizontal and vertical alignment of the existing local road and should be followed as much as possible.
3. Get information from Cadastral documents for the road alignment and information on whether the road reconstruction (including walkways, cycling track, water-supply, wastewater, storm-water drainage, and electrical installations) implementation is likely to have impacts on privately owned or leased land plots (temporal disturbance; loss of the part of the land plot or whole land plot by the owner; loss of the property being on the land plot; loss of income etc.);
4. Assess/survey all existing underground and surface communications within the road corridor and incorporate into the designs;
5. The Contractor shall carry out topographic survey of the selected route / alignment by ground survey. The adjusted co-ordinates and elevations of control points/traverse points shall be used for topographic survey. The topographic strip survey shall depict all the natural and man-made features in the appropriate wide corridor for the local municipal roads.
6. The horizontal alignment of the road center line should be determined within the survey strip of proposed corridor of the optimum alignment between control points specified as a result of the engineering investigation.
7. The Contractor shall numerically define the road and all service lines alignment /route on the basis of the defined project geometry and the verification of the spatial alignment of the applied elements in a site plan and longitudinal cross section.
8. Geometric definition of the road, water supply, wastewater, storm water pipe(s) and manholes, electrical alignment / route in the site plan and longitudinal cross section in appropriate scale.
9. The road and all service line installations cross-section profiles with structural details shall be in accordance with the road range, ie the predicted (calculated) speed, the traffic and location conditions of the route and facilities. The elements of the plan and the trunk of the road should be defined on the basis of the assumed speed. Drawings should be in appropriate scale.
10. To define the pavement structure in accordance with on-site assessment (based on the Report) of the current road conditions, damages, needs for reconstruction requirements, traffic loads, the climate impacts, etc. The Contractor has freedom to choose the type of sub structure (if needed for reconstruction) and road pavement structure, provided by the National code specifications and standards are met.
11. Preliminary Hydrological-hydraulic analyses and calculations for water supply, wastewater and to determine the relevant precipitation for drainage of the road surface and the relevant flows for dimensioning of the pipeline, channels and culverts – if needed for reconstruction.
12. To develop Environmental Study (Елаборат за заштита на животна средина) according Environmental Law (Official Gazette No. 53/05, 81/05, 24/07, 159/08, 83/09, 48/10, 124/10, 51/11, 123/12, 93/13, 186/13 и 42/14)

**Task 3 for LOT 1:** *Development of Main (Basic) Design with all technical phases based on the approved Infrastructure Design and elaborates:*

The Basic Design should be developed for all (re)construction technical phases in separate documents incorporating energy efficiency, build back better and gender sensitive principles. Also, the Basic Design should be in line with approved detailed scope of work, Infrastructure design, the National Construction Law, and Bylaws for Basic designs including all engineering phases (civil/structural, electrical, environmental and safety standards) for obtaining (re)construction permit with the following content:

Specific activities of the Design Engineering Contractor under this task for LOT 1 should include, but not limited to:

1. Detail calculations, specifications and dimensions of the pavement structure in accordance with the reconstruction needs, requirements of the traffic loads, the climate impacts, according to the National codes and standards.
2. Detail hydraulic and calculations for water supply, wastewater, and stormwater drainage.
3. Detail calculations for electrical installations (cables, light poles, lights etc) with energy efficiency measures.
4. Determining final site plan, road and all (re)construction service line installations their alignment in scale of 1:1000 and/or 1:500 and longitudinal cross sections in scale of 1:1000/100 and/or 1:500/50
5. Developing of the final cross sections for road reconstruction details (dimensions of road carriageway, specifications and dimensions of sub-grade, base course, width of carriageway, pedestrian walkways, cycling track etc). Detail Drawings in scale of 1:50 and details in scale of 1:10.
6. Scope and calculation of earth reconstruction works (if any) and optimization of transport and installation of earth material for reconstruction of local roads;
7. Detail drawings and cross sections for water supply, wastewater, stormwater pipelines, manholes, and electrical streetlighting. Detail Drawings in appropriate scale and details in scale of 1:10.
8. Detail Survey data
9. Detail Bill of Quantities (for all technical phases);
10. Technical specifications and requirements
11. Expropriation documentations – if needed

The Basic Design for technical phases should be in line with the National Construction Law with the following content:

1. Objectives and tasks of the Basic Design. Detail description of the current condition and performance of the road and all service line installations (water supply, wastewater, stormwater, electrical street lighting etc.).
2. Technical report with detailed description of the developed technical solution of the pavement structure and drainage system, roads sub base (if necessary, to be reconstructed), walkways and cycling track including adopted structural and hydraulic elements for water supply, wastewater, stormwater and electrical.
3. Technical specifications with detailed description of positions, conditions, object protection, necessary tests, attests and quality control of the materials.
4. Reconstruction of road, water-supply, wastewater, stormwater and electrical calculations.
5. Hydrological and hydraulic calculations referring to the determination of the relevant precipitation for drainage of the road surface (Build Back Better principle) and the relevant flows for dimensioning of the pipeline and/or culvers.
6. Detail Bill of Quantities
7. Drawings

**Main Deliverables for LOT 1**

The main deliverables of the assignment for LOT 1 are:

1. *Report on-site assessment of the condition, performance of the road pavement, water-supply, stormwater drainage, sewerage pipeline, street lighting and other road services with recommendation for (re)construction measures and detail scope of work (Проектна Задача)*
2. *Infrastructure Design for reconstruction of* *the “Aleksandar Makedonski” road in Gradsko community;*
3. *Environmental Study (Елаборат за заштита на животна средина) for reconstruction of the “Aleksandar Makedonski” road in Gradsko community;*
4. *Main (Basic) Design (including all engineering phases) for reconstruction of the “Aleksandar Makedonski” road in Gradsko community;*

**Qualification Requirements for LOT 1**

**The Contractor** **for LOT 1** shall have sufficient general experience of minimum 5 years in developing of technical documentation in the field of transport infrastructure project design, development of Environmental Studies, and similar. It will possess minimum license B for design in civil engineering, as per the national regulations.

It must have a track record of a minimum 2 completed projects of comparable size and degree of complexity (e.g. development of technical infrastructure and main designs for (re)construction of local roads, streets including (re)construction of walkways, water supply or wastewater or stormwater, and electrical lighting). A list of these completed referenced projects must be submitted with the proposal, including contact details for reference checking purposes (e-mail addresses and/or fax numbers for contact persons).

The scope of work requires a team of skilled professionals with previous experience in similar projects. Civil/road/hydrotechnical/electrotechnical engineering designers shall also possess the necessary permits for design as per the national regulations (minimum Authorization B). All members shall possess excellent technical skills in order to successfully implement the assignment for LOT 1.

The team of experts for LOT 1 shall respond to the requirements of the following mandatory key areas of expertise.

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|  | **Team members for LOT 1**  and/or  **areas of expertise** | **Qualification requirements for LOT 1** |
| **1.** | Main Engineer  Civil Road Engineer | * University degree in Civil Road Engineering * Minimum Authorization B for civil engineering design. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport infrastructure. * Record of at least 2 relevant completed projects (Table 01) that include preparation of infrastructure and/or main (basic) designs in road/street infrastructure, e.g. construction or reconstruction of local/regional roads or streets including walkways. List of projects to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |
| **2.** | Civil / Hydrotechnical Engineer | * Minimum university degree in Civil Hydrotechnical Engineering. * Minimum Authorization B for civil engineering design. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of water supply/wastewater/stormwater infrastructure. * Record of at least:   + 1 relevant completed project that include preparation of infrastructure and/or main (basic) designs for local water supply network   + 1 relevant completed project that include preparation of infrastructure and/or main (basic) designs for local wastewater or stormwater network   List of both referenced projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |
| **3** | Electrical Engineer | * Minimum Authorization B for electrical engineering design. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of electrical infrastructure. * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in road/street lighting infrastructure, e.g. construction or reconstruction of local roads/street electrical lighting installations and cabling. List of projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |

Table 01 List of relevant projects for each expert

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| **Name of project** | **Client** | **Contract Value** | **Period of activity** | **Types of activities undertaken** | **Status or Date Completed** | **References Contact Details (Name, Phone, Email)** |
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**NOTE:**

1. Failure to provide adequate expertise for each of the areas for LOT 1 is considered grounds for disqualification. For the areas where more than one expert is proposed, the Contractor must indicate the lead expert for that particular area, and only the lead expert shall be evaluated.
2. The Contractor needs to foresee additional technical engineering staff for successful completion of the assignment (e.g., Land surveyor – Geodetic engineer, technicians, geomechanical engineers), as per the requirements of the national regulations.
3. **The Bidder should bid on all deliverables of LOT 1**

**Scope of Work for LOT 2**

The general scope of work for the assignment of LOT 2 is to develop complete technical documentation for **Reconstruction of local road in length of ¬ 3000 m’, connecting two villages (Psacha and Odreno) including roads with total length of ¬2500 m’, connecting local communities (Brbovska maala, Rankieva maala, Radeva maala and Ciganska maala)**. The existing local road from Psacha to Odreno was build more than 40 years ago, with noticeable damaged road pavement. This local road is connection to the local unpaved roads to neighboring communities. Reconstruction of the local road (with approximate length of 3000 m – see Figure 2 below), is needed with detail assessment for renewal or replacement road pavement, rehabilitation of existing culverts and/or construction of new culverts, and road shoulders. In addition, rehabilitation of local road bedding, and asphalt paving to local communities (Brbovska maala, Rankieva maala, Radeva maala and Ciganska maala) in approx. length of 2,5 Km is needed and development of complete technical documentation for (re)construction of the local roads with total length of ¬5.5 Km, implementing build back better principle.



Figure 2 - Local road from village Psacha to Odreno (¬3000m)

**Duties and Responsibilities for LOT 2**

Based on the above-described general scope of work for the assignment of the LOT 2 and under the direct supervision of the Design Reviewer, Project Manager, and in close coordination/communication with municipality officials and other project experts, the company shall be responsible for carrying out the following tasks:

**Task 1 for LOT 2:** *Conducting brief on-site assessment of the condition, performance of the road pavement, water-supply, stormwater drainage, sewerage pipeline, street lighting and other road services.*

Specific activities of the Contractor under this task should include, but not limited to:

1. Get information from Cadastral documents for the existing roads alignment, needed road area/dimensions, and information on land ownership.
2. On-site condition assessment of road pavement and structure (e.g. bedding) replacement or reconstruction needs in terms of visible deformation, deterioration, worn-out etc. In addition, condition and performance assessment is needed for all existing culverts and other road objects, assessment of 2,5 Km local dusty roads to local communities.
3. Provide brief assessment report for (re)construction needs for at least next 30 years, based on existing local roads condition and performance. The Report should include: reconstruction needs and recommendations for pavement, base road structure, culvers and other objects along the 3,0 Km road from Psacha towards Odreno, and pavement construction construction on 2,5 Km local roads to communities (Brbovska maala, Rankieva maala, Radeva maala and Ciganska maala)
4. Develop detail scope of works (proektna zadaca) for reconstruction/extension needs for all local roads in total length of 5,5 Km approved by the municipality officials and UNDP Project Manager.

**Task 2 for LOT 1:** *Development of Infrastructure Design for (re)construction of the local road from Psacha to Odreno and connection roads to local communities:*

Specific activities of the Design Engineering Contractor under this task for LOT 2 should include:

1. The development of infrastructure designs for the reconstruction of the local roads and their objects (culverts, shoulders etc.) to Comply with valid Macedonian laws, regulations and quality norms in relation to local roads infrastructure.
2. Baseline data collection, existing road and traffic analysis, in order to align with the detail urban plan for Rankovce municipality (if any), take into account the reconstruction measures along the local roads, the specific topographic characteristics, and to respect all limitations arising from the synthesis map of the restrictions along the alignment of the local roads. The Contractor should take into account the horizontal and vertical alignment of the existing local roads and should be followed as much as possible.
3. Get information from Cadastral documents for the road alignment and information on whether the local roads reconstruction implementation is likely to have impacts on privately owned or leased land plots (temporal disturbance; loss of the part of the land plot or whole land plot by the owner; loss of the property being on the land plot; loss of income etc.);
4. Assess/survey all existing underground and surface communications within the local roads corridor and incorporate into the designs;
5. The Contractor shall carry out topographic survey of the selected route / alignment by ground survey. The adjusted co-ordinates and elevations of control points/traverse points shall be used for topographic survey. The topographic strip survey shall depict all the natural and man-made features in the appropriate wide corridor for the local municipal roads.
6. The horizontal alignment of the local roads center line should be determined within the survey strip of proposed corridor of the optimum alignment between control points specified as a result of the engineering investigation.
7. The Contractor shall numerically define the local roads and all roads objects alignment /route on the basis of the defined project geometry and the verification of the spatial alignment of the applied elements in a site plan and longitudinal cross section.
8. The local roads cross-section profiles with structural details shall be in accordance with the roads range, ie the predicted (calculated) speed, the traffic and location conditions of the route and facilities. The elements of the plan and the trunk of the road should be defined on the basis of the assumed speed. Drawings should be in appropriate scale.
9. To define the reconstructed pavement structure in accordance with on-site assessment (based on the Report) of the current road conditions, damages, needs for reconstruction requirements, traffic loads, the climate impacts, etc. The Contractor has freedom to choose the type of sub structure (if needed for reconstruction) and road pavement structure, provided by the National code specifications and standards are met.
10. Preliminary Hydrological-hydraulic analyses and calculations to determine the relevant precipitation (also having flooding risks due to climate change) for road rainwater surface drainage and the relevant flows for dimensioning of the new culverts, channels and reconstruction of the existing culverts.
11. To develop Environmental Study (Елаборат за заштита на животна средина) according Environmental Law (Official Gazette No. 53/05, 81/05, 24/07, 159/08, 83/09, 48/10, 124/10, 51/11, 123/12, 93/13, 186/13 и 42/14)

**Task 3 for LOT 2:** *Development of Main (Basic) Design for reconstruction of the local roads in Rankovce Municipality based on the approved Infrastructure Design and elaborates:*

The Basic Design should be developed for reconstruction of local roads in separate documents (if required by local authorities) incorporating, build back better and gender sensitive principles. Also, the Main Design should be in line with approved detailed scope of work, Infrastructure design, the National Construction Law, and Bylaws for Main (Basic) designs including roads resilience and safety standards for obtaining (re)construction permit with the following content:

Specific activities of the Design Engineering Contractor under this task for LOT 2 should include, but not limited to:

1. Detail calculations, specifications and dimensions of the local roads’ pavement, base structure and other objects in accordance with the reconstruction needs, requirements of the traffic loads, the climate impacts, according to the National codes and standards.
2. Detail hydraulic and hydrology calculations for draining the road surface, reconstruction of existing culverts and new culverts if needed.
3. Determining final site plan for local roads and their alignment in scale of 1:1000 and/or 1:500 and longitudinal cross sections in scale of 1:1000/100 and/or 1:500/50
4. Developing of the final cross sections for the local road’s reconstruction details (dimensions of road lanes, specifications and dimensions of sub-grade, base course, width of roads shoulders etc). Detail Drawings in scale of 1:50 and details in scale of 1:10.
5. Scope and calculation of earth reconstruction works (if any) and optimization of transport and installation of earth and bedding material for reconstruction of local roads;
6. Detail drawings and cross sections for all road’s objects (e.g. culverts). Detail Drawings in appropriate scale and details in scale of 1:10.
7. Detail Survey data
8. Detail Bill of Quantities;
9. Technical material specifications and requirements for local roads reconstruction
10. Expropriation documentations – if needed

The Main (Basic) Design should be in line with the National Construction Law with the following content:

1. Objectives and tasks of the Main (Basic) Design. Detail description of the current condition and performance of the local roads and all road objects.
2. Technical report with detailed description of the developed technical solution of the pavement structure and surface rainwater drainage, roads subbase (if necessary, to be reconstructed), culverts and other road objects.
3. Technical specifications with detailed description of positions, conditions, object protection, necessary tests, attests and quality control of the materials.
4. Local roads technical calculations.
5. Hydrological and hydraulic calculations referring to the determination of the relevant precipitation for drainage of the road surface (Build Back Better principle) and the relevant flows for dimensioning of the side channels and culvers.
6. Detail Bill of Quantities
7. Drawings

**Main Deliverables for LOT 2**

The main deliverables of the assignment for LOT 2 are:

1. *Report on-site brief assessment of the condition, performance of the local roads (in length of 5,5 Km) with recommendation for (re)construction measures and detail scope of work (Проектна Задача)*
2. *Infrastructure Design for reconstruction of the local road from Psacha to Odreno (¬3000 m) and local roads to communities (¬2500 m);*
3. *Environmental Study (Елаборат за заштита на животна средина) for reconstruction of the local roads in Municipality of Rankovce;*
4. *Main (Basic) Design for reconstruction of the local road from Psacha to Odreno in length of 3000 m and reconstruction of local connecting roads with approximate length of 2500 m;*

**Qualification Requirements for LOT 2**

The Contractor for LOT 2 shall have sufficient general experience of minimum 5 years in developing of technical documentation in the field of transport (roads) infrastructure project design, development of Environmental Studies, and similar. It will possess minimum license B for design in civil engineering, as per the national regulations.

It must have a track record of a minimum 2 completed projects of comparable size and degree of complexity (e.g. development of technical infrastructure and main designs for (re)construction of local roads, streets including (re)construction of culverts, channels and other local road objects). A list of these completed referenced projects must be submitted with the proposal, including contact details for reference checking purposes (e-mail addresses and/or fax numbers for contact persons).

The scope of work requires a team of skilled professionals with previous experience in similar projects. Civil/road/hydrotechnical/electrotechnical engineering designers shall also possess the necessary permits for design as per the national regulations (minimum Authorization B). All members shall possess excellent technical skills in order to successfully implement the assignment for LOT 2.

The team of experts for LOT 2 shall respond to the requirements of the following mandatory key areas of expertise.

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|  | **Team members for LOT 2**  and/or  **areas of expertise** | **Qualification requirements for LOT 2** |
| **1.** | Main Engineer  Civil Road Engineer | * University degree in Civil Road Engineering * Minimum Authorization B for civil engineering design. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport infrastructure. * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in local road/street infrastructure, e.g. construction or reconstruction of local/regional roads or streets including culverts, shoulders, drainage channels. List of projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |
| **2.** | Civil / Hydrotechnical Engineer | * Minimum university degree in Civil Hydrotechnical Engineering. * Minimum Authorization B for civil engineering. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of water hydrotechnical and hydrology infrastructure. * Record of at least 2 completed projects preferably for roads (re)construction that include hydrology analyses and calculations of maximum stormwater flows at watersheds, and calculations for road culvers dimensions. List of both referenced projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |

Table 01 List of relevant projects for each expert

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name of project** | **Client** | **Contract Value** | **Period of activity** | **Types of activities undertaken** | **Status or Date Completed** | **References Contact Details (Name, Phone, Email)** |
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**NOTE:**

1. Failure to provide adequate expertise for each of the areas for LOT 2 is considered grounds for disqualification. For the areas where more than one expert is proposed, the Contractor must indicate the lead expert for that particular area, and only the lead expert shall be evaluated.
2. The Contractor needs to foresee additional technical engineering staff for successful completion of the assignment (e.g., Land surveyor – Geodetic engineer, technicians, geomechanical engineers), as per the requirements of the national regulations
3. **The Bidder should bid on all deliverables of LOT 2**

**Scope of Work for LOT 3**

The two villages in Municipality of Karbinci (Tarinci and Karbinci) are located approximately 2 Km apart, connected with busy regional road R1204 (see Figure 4). Daily, 140 scholars from Tarinci village are walking to school in village Karbinci, 150 local residents and 20-30 cyclers on the regional road. In order to increase the safety of scholars, and local residents, the municipality officials are planned to implement the valuable project initiative in constructing the pedestrian walkway and cycling track connecting two villages.

The general scope of work for the assignment of LOT 3 is to develop complete technical documentation for construction of pedestrian walkway, cycling track, and energy efficiency lighting along the walkway (with approximate length of 1800 m’ – See Figure 3). In addition to this project, sewerage pipeline along the regional road, should be designed for collection of sewer water from the buildings and facilities, with a connection to sewerage network in village Tarinci or village Karbinci.



Figure 3 - Preliminary line for pedestrian and cycling path (¬1800m)

Figure 4 - Regional Road section with planned project location

Pedestrian Walkway and cycling track 1,8 Km

**Duties and Responsibilities for LOT 3**

Based on the above-described general scope of work for the assignment of the LOT 3 under the direct supervision of the Project Manager and in close coordination/communication with Public Enterprise for State Roads, municipality officials and other project experts, the company shall be responsible for carrying out the following tasks:

**Task 1 for LOT 3:** *Development of Infrastructure Design for construction of pedestrian walkway, cycling track, and sewerage pipeline to sewerage networks in village Karbinci and/or Tarinci:*

Specific activities of the Design Engineering Contractor under this task for LOT 3 should include:

1. The development of infrastructure designs for the construction of pedestrian walkway, cycling track, electrical lighting and sewerage pipeline along the regional road from villages Tarinci and village Karbinci, must comply with valid Macedonian laws, regulations and quality norms in relation to regional/state roads infrastructure, wastewater and safety technical standards.
2. Baseline data collection, in order to align with the detail urban plan for Karbinci municipality (if any), take into account the construction measures along the regional road, the specific topographic characteristics, and to respect all limitations arising from the synthesis map of the restrictions along the alignment of the regional road. The Contractor should take into account the horizontal and vertical alignment and corridor of the pedestrian walkway, cycling track and sewerage pipeline to be out of regional road corridor. This must be coordinated with and approved by the Public Enterprise for State Roads.
3. Get information about the existing sewerage networks in both villages, in order to determine the alignment and connection of the sewerage pipeline along the regional road.
4. Get information from Cadastral documents for the walkway, cycling track and sewerage pipeline alignment and information on whether the new constructions implementation are likely to have impacts on privately owned or leased land plots (temporal disturbance; loss of the part of the land plot or whole land plot by the owner; loss of the property being on the land plot; loss of income etc.);
5. Assess/survey all existing underground and surface communications along the new construction corridors and incorporate into the designs;
6. The Contractor shall carry out topographic survey of the selected route / alignment by ground survey. The adjusted co-ordinates and elevations of control points/traverse points shall be used for topographic survey. The topographic strip survey shall depict all the natural and man-made features in the appropriate wide corridor and shall numerically define project geometries and dimensions for the new pedestrian walkway, cycling track, electrical cables and lighting poles, and sewerage pipeline.
7. To define the walkway and cycle track pavement, base structure in accordance with on-site assessment, previous investigations (if any). The Contractor has freedom to choose the type of sub structure, walkway and cycling track pavement structure, provided by the National code specifications and standards are met.
8. Preliminary hydraulic analyses and calculations to determine sewerage pipeline dimensions, flows (from existing and future facilities along the regional road) and connection to existing sewerage networks in villages – Tarinci and/or Karbinci.
9. Conduct preliminary electrical calculations for energy efficiency, safety standards for lighting along the walkway and cycling track.
10. To develop Environmental Study (Елаборат за заштита на животна средина) according Environmental Law for all planned construction activities (Official Gazette No. 53/05, 81/05, 24/07, 159/08, 83/09, 48/10, 124/10, 51/11, 123/12, 93/13, 186/13 и 42/14)

**Task 2 for LOT 3:** *Development of Main (Basic) Design for construction of pedestrian walkway, cycling track, and sewerage pipeline to sewerage networks in village Karbinci and/or Tarinci:*

The Main (Basic) Design for construction of pedestrian walkway, cycling track, electrical lighting, and sewerage pipeline, should be developed in separate documents incorporating, objects’ resilience and gender sensitive principles. Also, the Main Design should be in line with approved detailed scope of work, Infrastructure design, the National Construction Law, and Bylaws for Main (Basic) designs including walkway, cycling track construction, electrical installations, sewerage pipeline resilience and safety standards for obtaining construction permit for all technical phases with the following content:

Specific activities of the Design Engineering Contractor under this task for LOT 3 should include, but not limited to:

1. Conduct detail geomechanical on-site investigations for the soil characteristics and ground water level (if required or necessary).
2. Detail calculations, specifications and dimensions of the walkway and cycling track pavement, base structure and other objects in accordance with the construction needs, sewerage flows, pipe dimensions, velocities, slopes and connection to existing sewerage networks, according to the National codes and standards.
3. Detail hydraulic and hydrology calculations for draining the walkway and cycling surface.
4. Determining final site plan for pedestrian walkway, cycling track, electrical lighting, sewerage pipeline, and their alignment in scale of 1:1000 and/or 1:500 and longitudinal cross sections in scale of 1:1000/100 and/or 1:500/50
5. Developing of the final cross sections for the walkway, cycling track, sewerage pipeline and electrical lighting construction details (especially dimensions for walkway, cycling track, and specifications and dimensions of sub-grade, base course, etc). Detail Drawings in scale of 1:50 and details in scale of 1:10.
6. Scope and calculation of earth construction works and optimization of transport and installation of earth and bedding material for construction of pedestrian walkway and cycling material;
7. Detail Drawings in appropriate scale and details in scale of 1:10.
8. Detail Survey data
9. Detail Bill of Quantities (for all technical phases);
10. Technical material specifications and requirements for all technical phases
11. Expropriation documentations – if needed

The Main (Basic) Design including all technical phases should be in line with the National Construction Law with the following contents:

1. Objectives and tasks of the Main (Basic) Design in terms of new construction activities.
2. Technical report with detailed description of the developed technical solution of the walkway and cycling track pavement structure and surface rainwater drainage, sub base and other elements.
3. Technical description of the technical solution for the energy efficient walkway and cycling lighting.
4. Technical description of the technical solution for sewerage pipeline dimensions, specification, design parameters and connection to existing sewerage networks.
5. Technical specifications with detailed description of positions, conditions, element protection, necessary tests, attests and quality control of the materials (for all technical phases).
6. Detail technical calculations – for technical phases.
7. Detail Bill of Quantities (for all technical phases)
8. Drawings (detail layouts, longitudinal and cross sections, details)

**Main Deliverables for LOT 3**

The main deliverables of the assignment for LOT 3 are:

1. *Infrastructure Design for construction of pedestrian walkway, cycling track (¬1800 m), electrical lighting and sewerage pipeline to sewerage networks in village Karbinci and/or Tarinci;*
2. *Environmental Studies for all construction phases (Елаборат за заштита на животна средина);*
3. *Main (Basic) Designs for construction of pedestrian walkway, cycling track, electrical lighting and sewerage pipeline to sewerage networks in village Karbinci and/or Tarinci;*

**Qualification Requirements for LOT 3**

The Contractor for LOT 3 shall have sufficient general experience of minimum 5 years in developing of technical documentation in the field of transport, wastewater and electrical infrastructure project design, development of Environmental Studies, and similar. It will possess minimum License B for design in civil engineering, as per the national regulations.

It has to have a track record of minimum:

* 1 completed project of comparable nature and degree of complexity (e.g. development of technical final designs for construction of walkways, cycling tracks, local roads/streets including pedestrian walkways and electrical street lighting etc.)
* 1 completed project of comparable nature and degree of complexity (e.g. development of technical final designs for (re)construction of municipal/town/village sewerage or stormwater networks etc.)

A list of these projects must be submitted with the proposal, including contact details for reference checking purposes (e-mail addresses and/or fax numbers for contact persons).

The scope of work requires a team of skilled professionals with previous experience in similar projects. Civil/roads/hydrotechnical/electrical engineering designers shall also possess the necessary permits for design as per the national regulations (minimum Authorization B). All members shall possess excellent technical skills in order to successfully implement the assignment for LOT 3.

The team of experts for LOT 3 shall respond to the requirements of the following mandatory key areas of expertise.

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|  | **Team members for LOT 3**  and/or  **areas of expertise** | **Qualification requirements for LOT 3** |
| **1.** | Main Engineer  Civil Road Engineer | * University degree in Civil Road Engineering * Minimum Authorization B for civil engineering design. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport infrastructure. * Record of at least 2 relevant completed projects comparable nature and degree of complexity that include preparation of infrastructure and/or main (basic) designs in road/street infrastructure (e.g. development of technical final designs for construction of walkways, cycling tracks for local roads/streets etc.   List of projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |
| **2.** | Civil / Hydrotechnical Engineer | * Minimum university degree in Civil Hydrotechnical Engineering. * Minimum Authorization B for civil engineering. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of water supply/wastewater/stormwater infrastructure. * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs for municipal/town/village wastewater or stormwater network   List of referenced projects (Table 01)to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |
| **3** | Electrical Engineer | * Minimum Authorization B for electrical engineering design. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of electrical infrastructure. * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in road/street lighting infrastructure, e.g. construction or reconstruction of local roads/street electrical lighting installations and cabling. List of projects (Table 01)to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |

Table 01 List of relevant projects for each expert

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| **Name of project** | **Client** | **Contract Value** | **Period of activity** | **Types of activities undertaken** | **Status or Date Completed** | **References Contact Details (Name, Phone, Email)** |
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**NOTE:**

1. Failure to provide adequate expertise for each of the areas for LOT 3 is considered grounds for disqualification. For the areas where more than one expert is proposed, the Contractor must indicate the lead expert for that particular area, and only the lead expert shall be evaluated.
2. The Contractor needs to foresee additional technical engineering staff for successful completion of the assignment (e.g., geomechanical engineer, land surveyor, and certified Environmental Experts), as per the requirements of the national regulations
3. **The Bidder should bid on all deliverables of LOT 3**

**Scope of Work for LOT 4**

“Partizanska” street in town Shtip is the main town road with total length of 1800 m. According with the detail urban plan for town Shtip, this road is classified as magistral road and is part of the regional road 2334 – see asset registry Figure 6 from the Public Enterprise for State Roads. Furthermore, with the detail urban plan this road is planned to be boulevard with all length. In 1994 construction of the boulevard was finished with a length of 800 m, starting from the regional bus station, to cross road with Boro Arsov. For the rest of the existing road with length of 1000 m is scope of this lot assignment (see Figure 5 below). The existing section of the road doesn’t have stormwater drainage, nor pedestrian walkways, and is a “bottleneck” of the traffic at this part of town Shtip.

The general scope of work for the assignment of LOT 4 is to develop complete technical documentation for construction of boulevard from Boro Arsov street to crossing with Vanco Kitanov street. In addition to this project, all service line infrastructure elements/objects should be designed for (re)construction (e.g. storm water drainage, sewerage pipeline, electrical boulevard lighting, pedestrian walkways and cycling track) along the regional road, with total length of 1000 m.



Figure 5- Boulevard Partizznska (¬1000m)



Figure 6- Public Enterprise for State Roads Asset Register (part of the state road - boulevard)

Based on the above-described general scope of work for the assignment of the LOT 4 under the direct supervision of the Project Manager and in close coordination/communication with Public Enterprise for State Roads, municipality officials and other project experts, the company shall be responsible for carrying out the following tasks:

**Task 1 for LOT 4:** *Development of Infrastructure Design for construction of boulevard in town Shtip:*

Specific activities of the Design Engineering Contractor under this task for LOT 4 should include:

1. The development of infrastructure designs for the construction of boulevard, pedestrian walkways, cycling track, electrical lighting, watersupply, stormwater and sewerage pipeline along the regional road for this section, must comply with valid Macedonian laws, regulations and quality norms in relation to regional/state roads infrastructure technical standards.
2. Baseline data collection, in order to align with the detail urban plan for town Shtip municipality, take into account the construction measures along the regional road (as this project is classified Category A according Construction Law), the specific topographic characteristics, and to respect all limitations arising from the synthesis map of the restrictions along the alignment of the regional road. The Contractor should consider optimal horizontal and vertical alignment and corridor of the boulevard. This must be coordinated with, and approved by the Public Enterprise for State Roads.
3. Get information about the existing line services alignments along the regional road with length of 1000 m.
4. Get information from Cadastral documents for the new boulevard corridor area, whether the new constructions implementation are likely to have impacts on privately owned or leased land plots (temporal disturbance; loss of the part of the land plot or whole land plot by the owner; loss of the property being on the land plot; loss of income etc.);
5. Assess/survey all existing underground and surface communications along the new construction corridors and incorporate into the designs;
6. The Contractor shall carry out topographic survey of the selected boulevard route / alignment by ground survey. The adjusted co-ordinates and elevations of control points/traverse points shall be used for topographic survey. The topographic strip survey shall depict all the natural and man-made features in the appropriate wide corridor, and shall numerically define project geometries and dimensions for the new boulevard including all services and cross roads.
7. To define the boulevard dimensions, number of lanes, pavement, base structure in accordance with on-site assessment (geomechanical elaborate), and previous investigations (if any). The Contractor has freedom to choose the type of sub structure, boulevard pavement structure, provided by the National code specifications and standards are met.
8. Preliminary Hydrological-hydraulic analyses and calculations to determine the relevant precipitation (also calculating flooding risks due to climate change) for boulevard rainwater surface drainage and the relevant flows for dimensioning of the new stormwater pipeline, culverts, channels.
9. Hydraulic analyses and calculations to determine sewerage pipeline dimensions, flows (from existing and future facilities along the regional road) and all connection from existing sewerage pipelines along the regional road alignment.
10. Conduct preliminary electrical calculations for energy efficiency, safety standards for lighting along the boulevard.
11. Conduct preliminary structural calculations, and define dimensions for any retaining walls, and all structural elements along new boulevard alignment.
12. To develop Notification letter to Ministry of Environment and spatial planning in order to determine if there is a need for EIA, or to define the scope for the Environmental Impact Study for all planned construction activities –(Студија за влијанието врз животна средина – Писмо за намери за проект) according Environmental Law (Official Gazette No. 53/05, 81/05, 24/07, 159/08, 83/09, 48/10, 124/10, 51/11, 123/12, 93/13, 186/13 и 42/14)

**Task 2 for LOT 4:** *Development of Main (Basic) Design for construction of boulevard with length of 1000 m’ in town Shtip:*

The Main (Basic) Design for construction of boulevard extension (“Partizanska” with length of 1000m’), should be developed in separate documents for all technical phases incorporating, objects’ resilience and gender sensitive principles. Also, the Main Design should be in line with approved detailed scope of work, approved Infrastructure design, the National Construction Law, and Bylaws for Main (Basic) designs including water supply, wastewater, stormwater, electrical installations, resilience and safety standards for obtaining construction permit for all technical phases with the following content, but not limited to:

1. Geomechanical Report based on the detail geomechanical on-site investigations for the soil characteristics and ground water level.
2. Detail calculations, specifications and dimensions of the boulevard elements (lines, walkways, cycling track), base boulevard structure and other objects in accordance with the construction needs, also all sewerage and stormwater flows, pipe dimensions, velocities, slopes and connection to existing sewerage networks, according to the National codes and standards.
3. Detail hydraulic and hydrology calculations for draining the boulevard pavement surface, walkway and cycling track surface.
4. Determining final site plan for boulevard carriageway, pedestrian walkway, cycling track, electrical lighting, sewerage pipeline, and their alignment in scale of 1:1000 and/or 1:500 and longitudinal cross sections in scale of 1:1000/100 and/or 1:500/50
5. Developing of the final cross sections for the boulevard carriageway walkway, cycling track, sewerage pipeline, stormwater and electrical lighting construction details. Detail drawings with traffic intersection of boulevard with other town streets. Detail Drawings in scale of 1:50 and details in scale of 1:10.
6. Scope and calculation of earth construction works and optimization of transport and installation of earth and bedding material for construction of boulevard carriageway, pedestrian walkway and cycling track;
7. Detail Drawings in appropriate scale and details in scale of 1:10.
8. Detail Survey data
9. Detail Bill of Quantities (for all technical phases);
10. Technical material specifications and requirements for all technical phases
11. Expropriation documentations – if needed

The Main (Basic) Design including all technical phases should be in line with the National Construction Law with the following contents:

1. Objectives and tasks of the Main (Basic) Design in terms of new boulevard construction activities.
2. Technical report with detailed description of the developed technical solution of the boulevard (including demolition works for the existing road), walkway and cycling track pavement structure and surface rainwater drainage, sub base and other elements.
3. Technical description of the technical solution for the energy efficient boulevard electrical lighting.
4. Technical description of the technical solution for sewerage, stormwater pipeline dimensions, manholes, material specification, design parameters and connection to existing sewerage and stormwater networks.
5. Technical specifications with detailed description of positions, conditions, element protection, necessary tests, attests and quality control of the materials (for all technical phases).
6. Detail technical calculations – for technical phases.
7. Detail Bill of Quantities (for all technical phases)
8. Drawings (detail layouts, longitudinal and cross sections, details)

**Main Deliverables for LOT 4**

The main deliverables of the assignment for LOT 4 are:

1. *Infrastructure Design for construction “Partiznska” boulevard with length of 1000 m;*
2. *Environmental Impact Study for all construction phases, including Notification Letter for the new project and determining the scope (*Студија за влијанието врз животна средина – Писмо за намери за изведување на проект*);*
3. *Main (Basic) Design for technical phases for construction of “Partiznska” boulevard with length of 1000 m;*

**Qualification Requirements for LOT 4**

The Contractor for LOT 4 shall have sufficient general experience of minimum 5 years in developing of technical documentation in the field of transport, wastewater, stormwater and electrical infrastructure project design, development of Environmental Impact Studies, and similar. It will possess License A for design in civil engineering, as per the national regulations.

It has to have a track record of minimum 2 relevant completed projects comparable nature and degree of complexity that include preparation of infrastructure and/or main (basic) designs for regional or state roads transport infrastructure – Category A transport infrastructure projects

A list of these projects must be submitted with the proposal, including contact details for reference checking purposes (e-mail addresses and/or fax numbers for contact persons).

The scope of work requires a team of skilled professionals with previous experience in similar projects. Civil/roads/hydrotechnical/electrical engineering designers shall also possess the necessary permits for design as per the national regulations (Authorization A). All members shall possess excellent technical skills in order to successfully implement the assignment for LOT 4.

The team of experts for LOT 4 shall respond to the requirements of the following mandatory key areas of expertise.

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| --- | --- | --- |
|  | **Team members for LOT 4**  and/or  **areas of expertise** | **Qualification requirements for LOT 4** |
| **1.** | Main Engineer  Civil Road Engineer | * University degree in Civil Road Engineering * Authorization A for civil engineering design. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport infrastructure. * Record of at least 2 relevant completed projects comparable nature and degree of complexity that include preparation of infrastructure and/or main (basic) designs for regional or state roads transport infrastructure – Category A transport infrastructure projects   List of projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |
| **2.** | Civil / Hydrotechnical Engineer | * University degree in Civil Hydrotechnical Engineering. * Authorization A for civil engineering. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of water supply/wastewater/stormwater infrastructure. * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in transport or water/wastewater sector projects Category A   List of referenced projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |
| **3** | Electrical Engineer | * Authorization A for electrical engineering design. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of electrical infrastructure. * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in road/street lighting infrastructure, e.g. construction or reconstruction of electrical lighting installations and cabling for state / regional/ local roads/street. List of projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |
| **4** | Civil Structural Engineer | * University degree in Civil Structural Engineering. * Authorization A for civil engineering. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport structural objects (i.e. retaining walls/culverts etc.) * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in road transport infrastructure sector projects Category A including structural objects (i.e. culverts, retaining walls etc.)   List of referenced projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |
| **5** | EIA expert | * Authorized EIA expert (from the list of authorized experts at the MoESP) * At least 5 years of experience in environmental sector. * Record of at least 2 relevant completed projects that include preparation of EIA in transport sector projects (Category A – Construction Law)   List of referenced projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |

Table 01 List of relevant projects for each expert

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| --- | --- | --- | --- | --- | --- | --- |
| **Name of project** | **Client** | **Contract Value** | **Period of activity** | **Types of activities undertaken** | **Status or Date Completed** | **References Contact Details (Name, Phone, Email)** |
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**NOTE:**

1. Failure to provide adequate expertise for each of the areas for LOT 3 is considered grounds for disqualification. For the areas where more than one expert is proposed, the Contractor must indicate the lead expert for that particular area, and only the lead expert shall be evaluated.
2. The Contractor needs to foresee additional technical engineering staff for successful completion of the assignment (e.g., geomechanical engineer, land surveyor, and certified Environmental Experts), as per the requirements of the national regulations
3. **The Bidder should bid on all deliverables of LOT 4**

**Scope of Work for LOT 5**

Most of the villages in Konche and Radovish municipalities (50) are connected by local roads and through the regional roads R2433 and R1103 and lacking in interconnection by local roads. With this project 2000 inhabitants in 6 villages from both municipalities will benefit from construction of the new local interconnecting local road.

The general scope of work for the assignment of LOT 5 is to develop complete technical documentation for **Construction of new local road in length of ¬ 18 to 20 Km, connecting six villages and settlements (Vojislavci, Dedino, Pogulevo, Damjan, Borov Dol and Sunny Lake Mantovo).** The road between Damjan and Borov Dol is already constructed and it is not part of this project scope**.** – see Figure 7below. The length, dimensions, and alignment of the local road will be determined by developing cost benefit analyses (that includes technical and financial analyses) and developing infrastructure and main or final design for construction.



Figure 7 – New Local road in Municipality Konche and Radovish (¬18 - 20 Km)

**Duties and Responsibilities for LOT 5**

Based on the above-described general scope of work for the assignment of the LOT 5 and under the direct supervision of the Design Reviewer, Project Manager, and in close coordination/communication with municipality officials and other project experts, the company shall be responsible for carrying out the following tasks, but limited to:

**Task 1 for LOT 5:** *Conducting brief cost benefit analyses (CBA) for the determining local road alignment, dimensions and preliminary construction costs.*

Specific activities of the Contractor under this task should include, but not limited to:

1. Develop at least three technical alternatives (preliminary sketch designs) in order to determine the optimal local road alignment, objects (bridges, culverts, retaining walls, excavations, infills embankments and other road objects). If needed the contractor will do geomechanical investigations on critical spot check sections for the optimal alignment in technical aspects. The sketch designs should be with appropriate scale on A3 paper size.
2. Do the cost benefit analyses (at least CAPEX – Capital costs, OPEX – Operation & Maintenance costs, RI – Return on investment) for three technical alternatives, in order to determine the most optimal investment costs.
3. Develop detail scope of works (proektna zadaca) for construction of local road approved by the municipality officials and UNDP Project Manager.

**Task 2 for LOT 5:** *Development of Infrastructure Design for construction of local road for six villages in Konche and Radovish Municipalities:*

Specific activities of the Design Engineering Contractor under this task for LOT 5 should include:

1. The development of infrastructure designs for the construction of the local road and road objects (bridges, culverts, shoulders etc.) to comply with valid Macedonian laws, regulations and quality norms in relation to local roads infrastructure.
2. Baseline data collection, existing and future road and traffic analysis, in order to define the construction technical road dimensions and parameters along the new road, the specific topographic characteristics, and to respect all limitations arising from the synthesis map of the restrictions along the alignment of the local road. The Contractor should take into account the horizontal and vertical alignment of the optimal road alternative (from Task 1 Lot 5) and should be followed as much as possible.
3. Get information from Cadastral documents for the road alignment and information on whether the new road construction implementation is likely to have impacts on privately owned or leased land plots (temporal disturbance; loss of the part of the land plot or whole land plot by the owner; loss of the property being on the land plot; loss of income etc.);
4. Assess/survey all existing underground and surface communications within the new road corridor and incorporate into the designs;
5. The Contractor shall carry out topographic survey of the optimal route / alignment by ground survey. The adjusted co-ordinates and elevations of control points/traverse points shall be used for topographic survey. The topographic strip survey shall depict all the natural and man-made features in the appropriate wide corridor for the local municipal roads. The horizontal alignment of the new road center line should be determined within the survey strip of proposed corridor of the optimum alignment between control points specified as a result of the engineering investigation.
6. The new road cross-section profiles with structural details shall be in accordance with the roads range, ie the predicted (calculated) speed, the traffic and location conditions of the route and facilities. The elements of the plan and the trunk of the road should be defined on the basis of the assumed speed. Drawings should be in appropriate scale.
7. To define the pavement structure in accordance with traffic loads, the climate impacts, etc. The Contractor has freedom to choose the type and location (borrow pits) of sub structure and road pavement structure, provided by the National code specifications and standards are met.
8. Preliminary Hydrological-hydraulic analyses and calculations to determine the relevant precipitation (also having flooding risks due to climate change) for road rainwater surface drainage and the relevant flows for dimensioning of the culverts, channels etc.
9. To determine the size and dimensions of any structural road structures (bridges, culverts, retaining walls etc) and incorporate in the design.
10. To develop Notification letter to Ministry of Environment and spatial planning in order to determine if there is a need for EIA, or to define the scope for the Environmental Impact Study for all planned construction activities –(Студија за влијанието врз животна средина – Писмо за намери за проект) according Environmental Law (Official Gazette No. 53/05, 81/05, 24/07, 159/08, 83/09, 48/10, 124/10, 51/11, 123/12, 93/13, 186/13 и 42/14)

**Task 3 for LOT 5:** *Development of Main (Basic) Design for construction of new local road connecting six villages in Konche and Radovish Municipalities:*

The Basic Design should be developed for construction of new local road in separate documents (for all technical phases) incorporating, road resilience and gender sensitive principles. Also, the Main Design should be in line with approved detailed scope of work, Infrastructure design, the National Construction Law, and Bylaws for Main (Basic) designs including roads resilience and safety standards for obtaining construction permit.

Specific activities of the Design Engineering Contractor under this task for LOT 5 should include, but not limited to:

1. Detail calculations, specifications and dimensions of the new local road pavement, base structure and other objects in accordance with the construction needs, requirements of the traffic loads, the climate impacts, according to the National codes and standards.
2. Detail hydraulic and hydrology calculations for draining the road surface, construction of bridges, culverts and (if any).
3. Detail geomechanical on-site investigations along the new road alignment as per national road technical requirements, laws, by-laws and regulations. Developing of Geomechanical Report.
4. Determining final site plan for the new local road, and alignment in scale of 1:5000 and/or 1:2500 and longitudinal cross sections in scale of 1:5000/100 and/or 1:1000/50 (or appropriate scale).
5. Developing of the final cross sections for the new local road reconstruction details (dimensions of road lanes, specifications and dimensions of sub-grade, base course, width of roads shoulders etc). Detail Drawings in scale of 1:50 and details in scale of 1:10.
6. Scope and calculation of earth construction works (to define the borrow pits) and optimization of transport and installation of earth and bedding material for construction of local roads;
7. Detail drawings and cross sections for all road’s objects (e.g. bridges, culverts, retaining walls etc). Detail Drawings in appropriate scale and details in scale of 1:10.
8. Detail Survey data
9. Detail Bill of Quantities;
10. Technical material specifications and requirements for the new local road construction
11. Expropriation documentations – if needed

The Main (Basic) Design (for all technical phases) should be in line with the National Construction Law with the following contents:

1. Objectives and tasks of the Main (Basic) Design. Detail description of the current local transport infrastructure.
2. Technical report with detailed description of the developed technical solution of the new local road pavement structure and surface rainwater drainage, road subbase and all other new road objects.
3. Technical specifications with detailed description of positions, conditions, object protection, necessary tests, attests and quality control of the materials.
4. Local road technical calculations (structural, road, hydrotechnical/hydrology, geomechanical report).
5. Detail Bill of Quantities (for all technical phases)
6. Drawings (for all technical phases)

**Main Deliverables for LOT 5**

The main deliverables of the assignment for LOT 5 are:

1. *Cost benefit analyses (CBA) for the determining local road alignment, dimensions, preliminary construction costs and detail scope of work (Проектна Задача)*
2. *Infrastructure Design for construction of new local road connecting six villages in Konche and Radovish Municipalities;*
3. *Environmental Impact Study for all construction phases, including Notification Letter for the new project and determining the scope (Студија за влијанието врз животна средина – Писмо за намери за изведување на проект);*
4. *Main (Basic) Design for construction of new local road connecting six villages in Konche and Radovish Municipalities;*

**Qualification Requirements for LOT 5**

The Contractor for LOT 5 shall have sufficient general experience of minimum 5 years in developing of technical documentation in the field of transport (roads) infrastructure project design, development of Environmental Studies, and similar. It will possess minimum license B for design in civil engineering, as per the national regulations.

It has to have a track record of a minimum 2 completed projects of comparable size and degree of complexity (e.g. development of technical infrastructure and main designs for (re)construction of local roads, streets including (re)construction of bridges, culverts, channels and other local road objects). A list of these completed referenced projects must be submitted with the proposal, including contact details for reference checking purposes (e-mail addresses and/or fax numbers for contact persons).

The scope of work requires a team of skilled professionals with previous experience in similar projects. Civil/road/hydrotechnical/geomechanical engineering designers shall also possess the necessary permits for design as per the national regulations (minimum Authorization B). All members shall possess excellent technical skills in order to successfully implement the assignment for LOT 5.

The team of experts for LOT 5 shall respond to the requirements of the following mandatory key areas of expertise.

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|  | **Team members for LOT 5**  and/or  **areas of expertise** | **Qualification requirements for LOT 5** |
| **1.** | Main Engineer  Civil Road Engineer | * University degree in Civil Road Engineering * Minimum Authorization B for civil engineering design. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport infrastructure. * Record of at least 2 relevant completed projects comparable nature and degree of complexity that include preparation of infrastructure and/or main (basic) designs for construction of new regional or local road transport infrastructure   List of projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |
| **2.** | Civil / Hydrotechnical Engineer | * University degree in Civil Hydrotechnical Engineering. * Minimum Authorization B for civil engineering design. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of water sector infrastructure. * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) road transport designs including hydrology and hydrotechnical analyses and calculations for storm water draining of the local or regional roads. List of referenced projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |
| **3** | Civil Geomechanical Engineer | * University degree in Civil Geotechnical Engineering * Minimum Authorization B for civil/geotechnical engineering design. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of civil infrastructure projects including geotechnical soil investigations. * Record of at least 2 relevant completed projects that include preparation of Geomechanical/geotechnical Reports for construction of new roads transport infrastructure. List of projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |
| **4** | Civil Structural Engineer | * University degree in Civil Structural Engineering. * Authorization B for civil engineering. * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport structural objects. * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs for objects of roads transport infrastructure (structural objects like - bridges and/or culverts and/or retaining walls etc). List of referenced projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |
| **5** | EIA expert | * Authorized EIA expert (from the list of authorized experts at the MoESP) * At least 5 years of experience in environmental sector. * Record of at least 2 relevant completed projects that include preparation of EIA in transport sector projects   List of referenced projects (Table 01) to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). |

Table 01. List of relevant projects for the experts

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| --- | --- | --- | --- | --- | --- | --- |
| **Name of project** | **Client** | **Contract Value** | **Period of activity** | **Types of activities undertaken** | **Status or Date Completed** | **References Contact Details (Name, Phone, Email)** |
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**NOTE:**

1. Failure to provide adequate expertise for each of the areas for LOT 5 is considered grounds for disqualification. For the areas where more than one expert is proposed, the Contractor must indicate the lead expert for that particular area, and only the lead expert shall be evaluated.
2. The Contractor needs to foresee additional technical engineering staff for successful completion of the assignment (e.g., Land surveyor – Geodetic engineer, technicians, other engineers), as per the requirements of the national regulations
3. **The Bidder should bid on all deliverables of LOT 5**

**Terms and Conditions for all LOTs**

* *Language*

The language of the required deliverables for all groups is Macedonian Language. All produced documents shall be subject to proofreading, while the quality of the final versions is subject to independent Reviewer and UNDP approval.

* *Legal and other requirements*

The content of the requested documents shall conform to the pertaining relevant legislation in the country for construction projects.

* *Review and quality assurance*

Review of the all engineering designs (for all deliverables from all groups) will be carried out by an independent licensed reviewer(s) hired by UNDP through separate contracts. Relevant comments and suggestions made by the reviewer(s) will have to be integrated in the final versions of the designs.

* *Duration of the assignment*

Maximum available time for development of the Designs upon signing of contract is:

* Lot 1 and Lot 3: 15 June 2020 – 30 September 2020
* Lot 2: 15 June 2020 – 15 October 2020;
* Lot 4 and Lot 5: 15 June 2020 – 1 December 2020
* *Expert teams*

Due to the required scope of work, and duration of the assignments for all five lots, if a bidder will bid on two or more lots, the bidder MUST have different proposed experts for each lot.

* *Additional costs*

The company should calculate the possible costs for acquiring various maps, layouts and other relevant documents or information required for successful finalization of all tasks. UNDP shall not accept any additional expenses which aren’t included in the company’s financial offer.

* *Reporting requirements*

The expert team will report to UNDP through the Project Manager.

* *Submission of data, reports and other material produced*

All primary data, reports, and other documentation produced during this assignment shall be made available **to UNDP Project Manager** in electronic format on CDs/USB and required number of hard copies and originals as per National Construction Law necessary for obtaining construction permit. All data acquired and products developed in the course of the assignment will be in the ownership of UNDP and cannot be used by the Contractor and its team without prior written permission.

* *Cooperation requirements*

The consulting team is expected to work closely with Municipality officials and other experts and/or expert teams hired by UNDP on parallel/complementary activities.

***Payment schedule* upon submission of final versions of the designs, as per Reviewer positive opinion.**

The payment will be process within thirty (30) days upon the following conditions met:

1. Reviewer written acceptance report (for all deliverables from all groups) as per national laws and regulations
2. UNDP’s written acceptance (i.e., not mere receipt) of the quality of the outputs; and
3. Receipt of invoice from the Service Provider.

**Annex 2**

**Table 1- List of relevant projects for LOT 1:**

Please provide the following information in the table below regarding corporate experiences which are related or relevant to those required for this Contract: 2 completed projects of comparable size and degree of complexity (e.g. development of technical infrastructure and main designs for (re)construction of local roads, streets including (re)construction of walkways, water supply or wastewater or stormwater, and electrical lighting).

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| --- | --- | --- | --- | --- | --- | --- |
| **Name of project** | **Client** | **Contract Value** | **Period of activity** | **Types of activities undertaken** | **Status or Date Completed** | **References Contact Details (Name, Phone, Email)** |
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**Table 2- List of relevant projects for LOT 2:**

Please provide the following information in the table below regarding corporate experiences which are related or relevant to those required for this Contract of Record of minimum:

* 1 completed project of comparable nature and degree of complexity (e.g. development of technical final designs for construction of walkways, cycling tracks, local roads/streets including pedestrian walkways and electrical street lighting etc.)
* 1 completed project of comparable nature and degree of complexity (e.g. development of technical final designs for (re)construction of municipal/town/village sewerage or stormwater networks etc.)

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| **Name of project** | **Client** | **Contract Value** | **Period of activity** | **Types of activities undertaken** | **Status or Date Completed** | **References Contact Details (Name, Phone, Email)** |
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**Table 3- List of relevant projects for LOT 3:**

Please provide the following information in the table below regarding corporate experiences which are related or relevant to those required for this Contract of Record of minimum2 completed projects of comparable size and degree of complexity (e.g. e.g. development of technical infrastructure and main designs for (re)construction of local roads, streets including (re)construction of culverts, channels and other local road objects).

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name of project** | **Client** | **Contract Value** | **Period of activity** | **Types of activities undertaken** | **Status or Date Completed** | **References Contact Details (Name, Phone, Email)** |
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**Table 4- List of relevant projects for LOT 4:**

Please provide the following information in the table below regarding corporate experiences which are related or relevant to those required for this Contract of Record minimum2 relevant completed projects comparable nature and degree of complexity that include preparation of infrastructure and/or main (basic) designs for regional or state roads transport infrastructure – Category A transport infrastructure project.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Name of project** | **Client** | **Contract Value** | **Period of activity** | **Types of activities undertaken** | **Status or Date Completed** | **References Contact Details (Name, Phone, Email)** |
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**Table 5- List of relevant projects for LOT 5:**

Please provide the following information in the table below regarding corporate experiences which are related or relevant to those required for this Contract of Record of minimum minimum2 completed projects of comparable size and degree of complexity (e.g. development of technical infrastructure and main designs for (re)construction of local roads, streets including (re)construction of bridges, culverts, channels and other local road objects.

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| --- | --- | --- | --- | --- | --- | --- |
| **Name of project** | **Client** | **Contract Value** | **Period of activity** | **Types of activities undertaken** | **Status or Date Completed** | **References Contact Details (Name, Phone, Email)** |
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**Evaluation method: cumulative**

**Contract will be awarded to the Bidder that meets the criteria based on pass/fail method and offers the lowest offer.**

|  |  |
| --- | --- |
| **Minimum Requirements** | **Status** |
| **FOR THE COMPANY FOR ALL LOTs** | |
| * Legal entity registered for the business activity (тековна состојба на фирмата) | **YES/NO** |
|  | |
| **FOR THE COMPANY FOR LOT 1 – additional documents** | |
| * The Company Profile (general company experience of minimum 5 years in developing of technical documentation in the field of transport infrastructure project design, development of Environmental Studies, and similar). | **YES/NO** |
| * minimum license B for design in civil engineering design | **YES/NO** |
| * Record of minimum 2 completed projects of comparable size and degree of complexity (e.g. development of technical infrastructure and main designs for (re)construction of local roads, streets including (re)construction of walkways, water supply or wastewater or stormwater, and electrical lighting).. – Annex 2 ->Table 1 | **YES/NO** |
| **For the Experts LOT 1** | |
| **Main Engineer - Civil Road Engineer** | |
| * University degree in Civil Engineering | **YES/NO** |
| * Minimum Authorization B for civil engineering design. | **YES/NO** |
| * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport infrastructure. | **YES/NO** |
| * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in road/street infrastructure, e.g. construction or reconstruction of local/regional roads or streets including walkways. List of projects to be submitted along with contact details for reference checking purposes (please indicate the e-mail addresses or telephone numbers of contact persons). | **YES/NO** |
| **Civil / Hydrotechnical Engineer** | |
| * Minimum university degree in Civil Hydrotechnical Engineering. | **YES/NO** |
| * Minumum Authorization B for civil engineering design. | **YES/NO** |
| * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of water supply / wastewater / stormwater infrastructure. | **YES/NO** |
| Record of at least   * 1 relevant completed project that include preparation of infrastructure and/or main (basic) designs for local water supply network * 1 relevant completed project that include preparation of infrastructure and/or main (basic) designs for local wastewater or stormwater network | **YES/NO** |
|  | |
| **Electrical Engineer** | |
| * Minimum Authorization B for electrical engineering design. | **YES/NO** |
| * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of electrical infrastructure. | **YES/NO** |
| * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in road/street lighting infrastructure, e.g. construction or reconstruction of local roads/street electrical lighting installations and cabling. | **YES/NO** |
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| **FOR THE COMPANY FOR LOT 2 – additional documents** | |
| * The Company Profile (including general company experience of minimum 5 years in developing of technical documentation in the field of transport (roads) infrastructure project design, development of Environmental Studies, and similar). | **YES/NO** |
| * minimum license B for design in civil engineering | **YES/NO** |
| * Record of minimum 2 completed projects of comparable size and degree of complexity (e.g. e.g. development of technical infrastructure and main designs for (re)construction of local roads, streets including (re)construction of culverts, channels and other local road objects). | **YES/NO** |
| **For the Experts LOT 2** | |
| **Main Engineer - Civil Road Engineer** | |
| * University degree in Civil Road Engineering | **YES/NO** |
| * Minimum Authorisation B for civil engineering design. | **YES/NO** |
| * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport infrastructure. | **YES/NO** |
| * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in local road/street infrastructure, e.g. construction or reconstruction of local/regional roads or streets including culverts, shoulders, drainage channels. | **YES/NO** |
| **For the Senior Civil Hydrotechnical Expert** | |
| * ☒ Minimum university degree in Civil Hydrotechnical Engineering. | **YES/NO** |
| * ☒ Minimum Authorization B for civil engineering design. | **YES/NO** |
| * ☒ At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of water hydrotechnical and hydrology infrastructure. | **YES/NO** |
| * ☒ Record of at least 2 completed projects preferably for roads (re)construction that include hydrology analyses and calculations of maximum stormwater flows at watersheds, and calculations for road culvers dimensions | **YES/NO** |
|  | |
| **FOR THE COMPANY FOR LOT 3 – additional documents** | |
| * The Company Profile (general company experience of minimum 5 years in developing of technical documentation in the field of transport, wastewater and electrical infrastructure project design, development of Environmental Studies, and similar). | **YES/NO** |
| * minimum license B for design in civil engineering | **YES/NO** |
| Record of minimum:   * 1 completed project of comparable nature and degree of complexity (e.g. development of technical final designs for construction of walkways, cycling tracks, local roads/streets including pedestrian walkways and electrical street lighting etc.) * 1 completed project of comparable nature and degree of complexity (e.g. development of technical final designs for (re)construction of municipal/town/village sewerage or stormwater networks etc.) | **YES/NO** |
| **For the Experts LOT 3** | |
| **Main Engineer - Civil Road Engineer** | |
| * University degree in Civil Engineering | **YES/NO** |
| * Minimum Authorisation B for civil engineering design. | **YES/NO** |
| * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport infrastructure. | **YES/NO** |
| * Record of at least 2 relevant completed projects comparable nature and degree of complexity that include preparation of infrastructure and/or main (basic) designs in road/street infrastructure (e.g. development of technical final designs for construction of walkways, cycling tracks, for local roads/streets etc. | **YES/NO** |
| **For the Senior Civil Hydrotechnical Expert** | |
| * Minimum university degree in Civil Hydrotechnical Engineering. | **YES/NO** |
| * Minimum Authorization B for civil engineering design. | **YES/NO** |
| * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of water supply / wastewater / stormwater infrastructure. | **YES/NO** |
| * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs for municipal/town/village wastewater or stormwater network | **YES/NO** |
| **For the Electrical Engineer** | |
| * Minimum Authorization B for electrical engineering design. | **YES/NO** |
| * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of electrical infrastructure. | **YES/NO** |
| * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in road/street lighting infrastructure, e.g. construction or reconstruction of local roads/street electrical lighting installations and cabling. | **YES/NO** |
| **FOR THE COMPANY FOR LOT 4 – additional documents** | |
| * The Company Profile (general company experience of minimum 5 years in developing of technical documentation in the field of transport, wastewater, stormwater and electrical infrastructure project design, development of Environmental Impact Studies, and similar | **YES/NO** |
| * License A for design in civil engineering | **YES/NO** |
| * Record of minimum2 relevant completed projects comparable nature and degree of complexity that include preparation of infrastructure and/or main (basic) designs for regional or state roads transport infrastructure – Category A transport infrastructure project. | **YES/NO** |
| **For the Experts LOT 4** | |
| **Main Engineer - Civil Road Engineer** | |
| * University degree in Civil Engineering | **YES/NO** |
| * Authorization A for civil engineering design. | **YES/NO** |
| * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport infrastructure. | **YES/NO** |
| * Record of at least 2 relevant completed projects comparable nature and degree of complexity that include preparation of infrastructure and/or main (basic) designs for regional or state roads transport infrastructure – Category A transport infrastructure projects | **YES/NO** |
| **For the Senior Civil Hydrotechnical Expert** | |
| * University degree in Civil Hydrotechnical Engineering. | **YES/NO** |
| * Authorization A for civil engineering. | **YES/NO** |
| * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of water supply/wastewater/stormwater infrastructure. | **YES/NO** |
| * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in transport or water/wastewater sector projects Category A | **YES/NO** |
| **For the Electrical Engineer** | |
| * Authorization A for electrical engineering design. | **YES/NO** |
| * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of electrical infrastructure. | **YES/NO** |
| * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in road/street lighting infrastructure, e.g. construction or reconstruction of state/regional roads electrical lighting installations and cabling. | **YES/NO** |
| **For the Civil Structural Expert** | |
| * University degree in Civil Structural Engineering. | **YES/NO** |
| * Authorization A for civil engineering. | **YES/NO** |
| * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport structural objects (i.e. retaining walls/culverts etc.) | **YES/NO** |
| * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs in road transport infrastructure sector projects Category A including structural objects (i.e. culverts, retaining walls etc.) | **YES/NO** |
| **For the EIA** | |
| * Authorized EIA expert (from the list of authorized experts at the MoESP) | **YES/NO** |
| * At least 5 years of experience in environmental sector. | **YES/NO** |
| * Record of at least 2 relevant completed projects that include preparation of EIA in transport sector projects (Category A – Construction Law). | **YES/NO** |
|  | |
| **FOR THE COMPANY FOR LOT 5 – additional documents** | |
| * The Company Profile (general company experience of minimum 5 in developing of technical documentation in the field of transport (roads) infrastructure project design, development of Environmental Studies, and similar | **YES/NO** |
| * minimum license B for design in civil engineering | **YES/NO** |
| * Record of minimum2 completed projects of comparable size and degree of complexity (e.g. development of technical infrastructure and main designs for (re)construction of local roads, streets including (re)construction of bridges, culverts, channels and other local road objects. | **YES/NO** |
| **For the Experts LOT 5** | |
| **Main Engineer - Civil Road Engineer** | |
| * University degree in Civil Engineering | **YES/NO** |
| * Minimum Authorization B for civil engineering design. | **YES/NO** |
| * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport infrastructure. | **YES/NO** |
| * Record of at least 2 relevant completed projects comparable nature and degree of complexity that include preparation of infrastructure and/or main (basic) designs for construction of new regional or local road transport infrastructure. | **YES/NO** |
| **For the Senior Civil Hydrotechnical Expert** | |
| * University degree in Civil Hydrotechnical Engineering. | **YES/NO** |
| * Minimum Authorization B for civil engineering design. | **YES/NO** |
| * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of water sector infrastructure. | **YES/NO** |
| * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) road transport designs including hydrology and hydrotechnical analyses and calculations for rain water draining of the local or regional roads | **YES/NO** |
| **For the Civil Geomechanical Engineer** | |
| * University degree in Civil Geotechnical Engineering | **YES/NO** |
| * Minimum Authorization B for civil/geotechnical engineering design. | **YES/NO** |
| * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of civil infrastructure projects including geotechnical soil investigations. | **YES/NO** |
| * Record of at least 2 relevant completed projects that include preparation of Geomechanical/geotechnical Reports for construction of new roads transport infrastructure. | **YES/NO** |
| **For the Civil Structural Expert** | |
| * University degree in Civil Structural Engineering. | **YES/NO** |
| * Minimum Authorization B for civil engineering. | **YES/NO** |
| * At least 5 years of experience in preparation of infrastructure and/or main designs for (re)construction of road transport structural objects. | **YES/NO** |
| * Record of at least 2 relevant completed projects that include preparation of infrastructure and/or main (basic) designs for objects of roads transport infrastructure (structural objects like - bridges and/or culverts and/or retaining walls etc). | **YES/NO** |
| **For the EIA** | |
| * Authorized EIA expert (from the list of authorized experts at the MoESP) | **YES/NO** |
| * At least 5 years of experience in environmental sector. | **YES/NO** |
| * Record of at least 2 relevant completed projects that include preparation of EIA in transport sector projects | **YES/NO** |

**Annex 3.**

**FORM FOR SUBMITTING SUPPLIER’S QUOTATION**

***(This Form must be submitted only using the Supplier’s Official Letterhead/Stationery***

We, the undersigned, hereby accept in full the UNDP General Terms and Conditions, and hereby offer to deliver services in conformity with TOR under **RFQ 41/2020 for Preparing Technical documentation for Transport Infrastructure in selected Municipalities – LOT 1, LOT 2, LOT 3, LOT 4 and LOT 5:**

**LOT 1 : Developing complete technical documentation for Reconstruction of magistral/regional road, water supply pipeline, stormwater drainage, sewerage collector pipeline, road lighting, construction of pedestrian walkways and cycling track in Gradsko community**

**Table 1 – LOT 1**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Description of milestones and deliverables**  Upon completion of the assignments and submission of the engineering design | **Total Price in MKD, VAT excluded** | **Completion date** |
| 1 | Report on-site assessment of the condition, performance of the road pavement, water-supply, stormwater drainage, sewerage pipeline, street lighting and other road services with recommendation for (re)construction measures and detail scope of work (Проектна Задача) |  |  |
| 2 | Infrastructure Design for reconstruction of the “Aleksandar Makedonski” road in Gradsko community; |  |  |
| 3 | Environmental Study (Елаборат за заштита на животна средина) for reconstruction of the “Aleksandar Makedonski” road in Gradsko community; |  |  |
| 4 | Main (Basic) Design (including all engineering phases) for reconstruction of the “Aleksandar Makedonski” road in Gradsko community; |  |  |
| **TOTAL for LOT 1:** | |  |  |

**PLEASE NOTE:**

1. ***The Bidder must bid on all deliverables listed in Table 1 - LOT 1***

**LOT 2: Developing complete technical documentation for Reconstruction of local road in length of ¬ 3000 m’, connecting two villages (Psacha and Odreno) including roads with total length of ¬2500 m’, connecting local communities (Brbovska maala, Rankieva maala, Radeva maala and Ciganska maala**

**Table 2 – LOT 2**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Description of milestones and deliverables**  Upon completion of the assignments and submission of the engineering design | **Total Price in MKD, VAT excluded** | **Completion date** |
| 1 | Report on-site brief assessment of the condition, performance of the local roads (in length of 5,5 Km) with recommendation for (re)construction measures and detail scope of work (Проектна Задача) |  |  |
| 2 | Infrastructure Design for reconstruction of the local road from Psacha to Odreno (¬3000 m) and local roads to communities (¬2500 m); |  |  |
| 3 | Environmental Study (Елаборат за заштита на животна средина) for reconstruction of the local roads in Municipality of Rankovce; |  |  |
| 4 | Main (Basic) Design for reconstruction of the local road from Psacha to Odreno in length of 3000 m and reconstruction of local connecting roads with approximate length of 2500 m; |  |  |
| **TOTAL for LOT 2:** | |  |  |

**PLEASE NOTE:**

1. ***The Bidder must bid on all deliverables listed in Table 2 - LOT 2***

**LOT 3: Developing complete technical documentation for construction of pedestrian walkway, cycling track, and energy efficiency lighting along the walkway with approximate length of 1800 m’ including sewerage pipeline along the regional road**

**Table 3 – LOT 3**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Description of milestones and deliverables**  Upon completion of the assignments and submission of the engineering design | **Total Price in MKD, VAT excluded** | **Completion date** |
| 1 | Infrastructure Design for construction of pedestrian walkway, cycling track (¬1800 m), electrical lighting and sewerage pipeline to sewerage networks in village Karbinci and/or Tarinci; |  |  |
| 2 | Environmental Studies for all construction phases (Елаборат за заштита на животна средина); |  |  |
| 3 | Main (Basic) Designs for construction of pedestrian walkway, cycling track, electrical lighting and sewerage pipeline to sewerage networks in village Karbinci and/or Tarinci; |  |  |
| **TOTAL for LOT 3:** | |  |  |

**PLEASE NOTE:**

1. ***The Bidder should bid on all deliverables listed in Table 3 - LOT 3***

**LOT 4: Developing complete technical documentation for construction of boulevard from Boro Arsov street to crossing with Vanco Kitanov street in town Shtip**

**Table 4– LOT 4**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Description of milestones and deliverables**  Upon completion of the assignments and submission of the engineering design | **Total Price in MKD, VAT excluded** | **Completion date** |
| 1 | Infrastructure Design for construction “Partiznska” boulevard with length of 1000 m; |  |  |
| 2 | Environmental Impact Study for all construction phases, including Notification Letter for the new project and determining the scope (Студија за влијанието врз животна средина – Писмо за намери за изведување на проект); |  |  |
| 3 | Main (Basic) Design for technical phases for construction of “Partiznska” boulevard with length of 1000 m; |  |  |
| **TOTAL for LOT 4:** | |  |  |

**PLEASE NOTE:**

1. ***The Bidder must bid on all deliverables listed in Table 4 - LOT 4***

**LOT 5: Developing complete technical documentation for construction of new local road in length of ¬ 18 to 20 Km, connecting six villages and settlements (Vojislavci, Dedino, Pogulevo, Damjan, Borov Dol and Sunny Lake Mantovo) in Municipality of Konche and Radovish**

**Table 5 – LOT 5**

|  |  |  |  |
| --- | --- | --- | --- |
| **Item No.** | **Description of milestones and deliverables**  Upon completion of the assignments and submission of the engineering design | **Total Price in MKD, VAT excluded** | **Completion date** |
| 1 | Cost benefit analyses (CBA) for the determining local road alignment, dimensions, preliminary construction costs and detail scope of work (Проектна Задача) |  |  |
| 2 | Infrastructure Design for construction of new local road connecting six villages in Konche and Radovish Municipalities; |  |  |
| 3 | Environmental Impact Study for all construction phases, including Notification Letter for the new project and determining the scope (Студија за влијанието врз животна средина – Писмо за намери за изведување на проект); |  |  |
| 4 | Main (Basic) Design for construction of new local road connecting six villages in Konche and Radovish Municipalities |  |  |
| **TOTAL for LOT 5:** | |  |  |

**PLEASE NOTE:**

1. ***The Bidder must bid on all deliverables listed in Table 5 - LOT 5***

All other information that we have not provided automatically implies our full compliance with the requirements, terms and conditions of the RFQ.

We hereby declare that:

1. All the information and statements made in this Bid are true and we accept that any misrepresentation contained in it may lead to our disqualification;
2. We are currently not on the removed or suspended vendor list of the UN or other such lists of other UN agencies, nor are we associated with, any company or individual appearing on the 1267/1989 list of the UN Security Council;
3. We have no outstanding bankruptcy or pending litigation or any legal action that could impair our operation as a going concern; and
4. We do not employ, nor anticipate employing, any person who is or was recently employed by the UN or UNDP.

We confirm that we have read, understood and hereby fully accept the Schedule of Requirements and Technical Specifications describing the duties and responsibilities required of us in this RfQ, and the General Terms and Conditions of UNDP’s Standard Contract for this RfQ.

We agree to abide by this Bid for 120 days*.*

We undertake, if our Bid is accepted, to commence the Works and provision of related services not later than the date indicated in the Data Sheet.

We fully understand and recognize that UNDP is not bound to accept this Bid, that we shall bear all costs associated with its preparation and submission, and that UNDP will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the evaluation.

We remain,

Yours sincerely,

Authorized Signature [*In full and initials*]:

Name and Title of Signatory:

Name of Firm:

Contact Details:

*please mark this letter with your corporate seal, if available]*

1. *Must be linked to INCO Terms chosen.* [↑](#footnote-ref-1)
2. *Depends on INCO Terms. The suggestion to use a UNDP preferred courier is only for purposes of familiarity with procedures and documentary requirements applicable to the UNDP when clearing with customs.*  [↑](#footnote-ref-2)
3. *Local vendors must comply with any applicable laws regarding doing business in other currencies. Conversion of currency into the UNDP preferred currency, if the offer is quoted differently from what is required, shall be based only on UN Operational Exchange Rate prevailing at the time of UNDP’s issuance of Purchase Order.* [↑](#footnote-ref-3)
4. *This must be reconciled with the INCO Terms required by the RFQ. Furthermore, VAT exemption status varies from one country to another. Pls. tick whatever is applicable to the UNDP CO/BU requiring the goods.* [↑](#footnote-ref-4)
5. [↑](#footnote-ref-5)
6. *UNDP reserves the right not to award the contract to the lowest priced offer, if the second lowest price among the responsive offer is found to be significantly more superior, and the price is higher than the lowest priced compliant offer by not more than 10%, and the budget can sufficiently cover the price difference. The term “more superior” as used in this provision shall refer to offers that have exceeded the pre-determined requirements established in the specifications.* [↑](#footnote-ref-6)
7. *This shall be used for time-critical and/or exigent requirements (e.g., post-crisis emergencies, elections, etc.).* [↑](#footnote-ref-7)
8. *Minimum of one (1) year period and may be extended up to a maximum of three (3) years subject to satisfactory performance evaluation* [↑](#footnote-ref-8)
9. *Where the information is available in the web, a URL for the information may simply be provided.* [↑](#footnote-ref-9)
10. *This contact person and address is officially designated by UNDP. If inquiries are sent to other person/s or address/es, even if they are UNDP staff, UNDP shall have no obligation to respond nor can UNDP confirm that the query was received.* [↑](#footnote-ref-10)