



तेमाल गाउँपालिका
पाखरीनारयणस्थान, काभ्रेपलाञ्चोक

डम्फुपार्क टि ओ आर (टमर्स अफ रेफरेन्स)

Tems of Reference (TOR)
preparation detail Engineering Report of (Damphu park)

आर्थिक वर्ष २०७६/७७

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लक्ष्मण कुईकेल
प्रमुख प्रशासकीय अधिकृत

Temal Rural Municipality

Office of Rural Municipal Executive

Pokhari Narayasthan

Terms of Reference

FOR

Consulting Service For Preparation of Masterplan and Detailed Design, Drawing and Cost Estimate of Damphu park Ward No-5 of Temal Rural Municipality

Background of the Study:

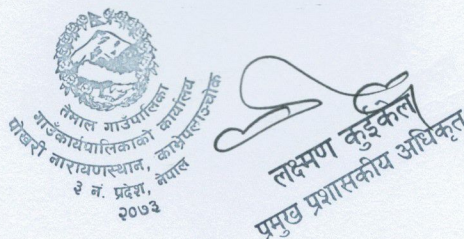
Government has set an ambitious plan to attract Two million international visitors every year into Nepal. Keeping in view the 'Visit Nepal Year 2020' campaign, the Government of Nepal is planning a wide range of tourism promotion and related developmental activities across the country. To achieve the goal various policies are in action including service improvement to investments in tourism infrastructures. In the current fiscal year 2075/076, the Government of Nepal (GoN) has made a significant policy: the promotion of economic development in the country and the alleviation of the existing poverty level as much as possible by promoting tourism industry of suitable interests of visitors and locals. Famous tourist centers as well new destinations are expected to add new impetus for economic development by creating more job opportunities in the region and local areas.

Religious tourism has taken place since the dawn of civilization. Pilgrims travelled to pay homage to the sacred places and their guardians throughout the world. Tourism to sacred sites has merged with pilgrimage in the past 2,000 years.

The Consulting firm shall be responsible for Detail Feasibility Study and the development of detailed project reports which includes site investigation and survey works, risks assessment, master plan development of Ward Office, architectural and engineering design and details drawings preparation as per master plan, and Bill of quantity (BoQ) preparation with details rate analysis and specification based on GoN norms and District rate/Municipality rate of F/Y 076/77. However, the site selection of the construction of the Ward Office shall be carried out in coordination with Municipality.

Location:

Project area is located at Temal Rural Ward -5



Objective of the Project

The main objective of this study is to carry out survey, Detailed Architectural, structural design, drawing and cost estimation preparation of the proposed structures in compliance with prevailing standards and Nepal National Building Code (NNBC), 2060

SCOPE OF WORK

The scope of work for the consulting services is as mentioned below:

A) DESK STUDY

The Consultant will conduct a desk study on available data, maps and information of the site. It includes review and analysis of secondary as well as field data from field surveys, geo-technical investigation of the site and discussion and meeting with concerned authorities.

B) DETAILED FIELD INVESTIGATION & SURVEYS

Topographic survey of the proposed site and prepare the map showing the existing building with its uses, existing infrastructures (electric poles, electric line, sewerage network, water supply, drainage line) and other existing natural features like trees, water bodies, etc.

Field survey of the possible risks – landslides, slope failures, fires, environmental and climatic hazards..

C) DETAILED ARCHITECTURAL PLANNING AND DESIGN INCLUDING ELECTRICAL, WATER SUPPLY AND SANITARY REQUIREMENTS

The consultant will prepare conceptual architectural design of the Tamang Cultural Museum along with utilities and public parking space and landscape design and present it to the municipality and respective stakeholders. The detailed architectural plan of Recreational hall including linear open space, amenity space within housing area, natural open space and design will be prepared after finalization and approval of Overall plan and conceptual design from municipality. The architectural planning and design of Tamang Cultural Museum, Recreational Hall and Tourism Park and other facilities of the proposed site should also include electrical, water supply and sanitary requirements.

D) STRUCTURAL ANALYSIS AND DESIGN

The consultant should conduct detailed structural analysis and design of the Tamang Cultural Museum other structures as per current codes and standards. It also includes the structural analysis and design of proposed risk protection measures components such as retaining wall, slope and flood protection structures. The design should be on the data obtained from the field investigations and current codes and standards. The structural analysis and design can be performed using commonly used commercial software in Nepal and/or manual calculation. The design should focus on economic, environmental and social advantages as suitable to local condition.

E) PREPARATION OF DETAILED DRAWINGS FOR APPROVAL

- The detailed architectural drawings with electrical and sanitary design after finalization and approval of conceptual design should be prepared for approval and working drawings for construction.
- The structural drawings of structural components should also be prepared as per the structural analysis and design for approval and construction.
- The drawings should be done in an appropriate style and the scales suitably fixed so that they are easily readable at site or workshop by naked eye.
- Adequate number of drawings should be produced to appropriately represent all the necessary details, plans, elevation and sections.
- The detail reinforcement schedule will be a part of the drawings.
- All drawings shall be in ISO A3 format (297x420mm).
- Except for similar components, each different component shall have separate drawings in cross section, elevation and plan.

F) PREPARATION OF QUANTITY ESTIMATION

The BoQ should be explicit covering all items of work. It should be as exhaustive as possible to avoid changes, additions, deletions and substitutions during execution and therefore the undesired disputes and claims. The detailed technical and material specifications should be a part of the BoQ. One copy of the Technical Specifications shall be submitted to Project Office for its comments & suggestions before making the required number of copies. The quantities should be worked out as accurate as possible to avoid unnecessary variations during the execution of the work. Availability of materials may also be specified for those that are unique in features. As far as possible, the materials should be readily available in local market. The materials may be suggested to suit the climatic condition of the proposed location. The cost estimates should be appropriately worked out based on the local rate to indicate the approximate cost of the entire project. It should be accompanied by analysis of rates where necessary.

EXPECTED OUTPUTS

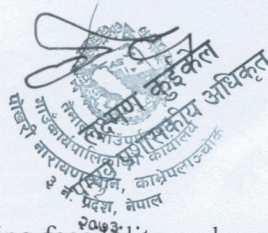
The output of the assignment is expected to contain the followings:

- a) Inception Report
- b) Topographic map of the site
- c) Detail plan of Tamang Cultural Museum and tourism park site
- d) Detailed architectural, structural design and drawings
- e) Detailed engineering design and drawings
- f) Municipality approval documents and drawings
- g) Detailed Working Drawings
- h) BoQ with detailed cost estimate and work specifications

METHODOLOGY

1. DESK STUDY:

Primary research and Secondary data from government and other sources



- Desk and field Review of existing feasibility and prefeasibility of different tourism projects and identified location as tourist destinations
- Field visits to proposed locations and surrounding area
- Interaction and discussion with public and private sector, relevant government authorities and agencies, local stakeholders
- Regular interactions and discussions with authorities of municipality for suggestions and input

2. REPORTS, DOCUMENTS AND PRESENTATION OF THE CONSULTING SERVICES:

The selected Consultancy Firm shall be required to submit and present the followings reports and documents for Client's review and approval:

Preliminary Design Report

This report shall submit to Municipality, within 4 weeks from the date of commencement of the services and should be presented and discussed with concerned stakeholders. It should include the followings:

Detail plan with complete site development works

Preliminary conceptual Architectural designs

Draft Report

The report shall contain final Detail plan and other aspects of site, final design (plans, elevations, sections and 3D views), structure design, cost estimation of the premises incorporating drainage system, road network and other infrastructure facilities. The report shall be submitted in three copies.

Final Report and Drawing

The report shall contain same matter as the draft report after incorporation of the comment and suggestion from themunicipality. The report and the final Architectural/Engineering design/ drawing shall be presented in three copies and soft copy in CD. Report should be in word and Pdf format and drawing should be in Auto CAD format. Presentation slide also be submitted with final report.

TIMELINES & EXECUTIVE PLAN

The overall consulting services period will be for Three (3) months beginning from the award of the consultancy to the selected Consultant after the completion of the Request for Proposal Process. The following are the reporting schedule.

SN	ReportSubmission	Time
1	Inception Report	15 Days From Date of Agreement
2	Preliminary Design Report	45 Days From Date of Agreement

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| 3 | Draft Report | 75 Days From Date of Agreement |
| 4 | Final Report | 90 Days From Date of Agreement |

QUALIFICATIONS OF KEY PERSONALS

The consulting firm shall engaged the following key experts apart from other support staff to carry out the services.

SN	Position	Qualification	Experience	No
1	Team Leader/Structural Engineer	Masters Degree in Structural/Earthquake Engineering	5 Years	1
2	Architect	Bachelors in Architecture	5 Years	1
3	Civil Engineer	B.E. Civil Engineering	5 Years	1
4	Electrical Engineer	Bachelor's Degree in Electrical Engineering	3 Years	1
5	Water supply/Sanitary Engineer	Bachelor's Degree in Civil Engineering	3 Years	1
6	Surveyor	Diploma in Civil/Survey	3 Years	1

PAYMENT SCHEDULE

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| 1. After the submission of the Inception Report | 20% |
| 2. After the submission of the Interim (Draft) Report | Remaining 50% |
| 3. After the submission of the Final Report | Remaining 30% |

TAXATION

The consultancy firm is fully responsible for all taxes imposed by the relevant laws of GoN.