

Terms of Reference (ToR)

For

Initial Environmental Examination (IEE) for the Sustainable Extraction of Riverbed Materials (Sand, Gravel and Stone) from Different Rivers/ Streams of Kerabari Rural Municipality

> Implementing Agency: Kerabari Rural Municipality Kerabari, Morang

Name of the Proponent: Kerabari Rural Municipality (Planning & Revenue Section) Morang, Province no. 01 Bhadra, 2077 Terms of Reference for Conducting Initial Environmental Examination(IEE) for the Sustainable Extraction of Riverbed Materials(Sand, Gravel and Stone) from Different Rivers/ Streams of Kerabari Rural Municipality

1. Background

Kerabari Rural Municipality (Nepali: केराबारीगाउँपालिका) is a Gaupalika (rural municipality)

located at Morang district. Letang Bhogateni Municipality (Ward no.1), Kerabari, Yangshila, Singhadevi and Patigaun VDCs were incorporated into Kerabari Gaupalika. This rural municipality has an area of 219.83 sq. km. The population as of 2074 is 31,351. The current VDC Office of Kerabari is the office of this Gaupalika.

River is the mirror of society. Many ancient civilizations were flourished on the bank of the River. Rivers maintain ecological balance as well as provide source of income if managed properly. Fishes and riverbed materials (sand, cobble, pebble, boulders, etc.) are the sources of income from natural rivers. Within those ecosystem services, the extraction of river bed material is one of particularly important types of human activity in river ecosystems. Sand and gravel mining have been a serious environmental problem around the globe in recent years. Instream mining directly alters the channel geometry and bed elevation. By removing sediment from the channel, instream material extraction disrupts the pre-existing balance between sediment supply and transporting capacity, typically inducing incision upstream and downstream of the extraction site. The resultant incision alters the frequency of floodplain inundation along the river courses, lowers valley floor water tables and frequently leads to destruction of bridges and channelization structures.

For the development purposes the natural resources like river bed material (Sand, gravel, Cobbles and boulder) are the major raw material. The development of the country is mainly focused on the growth of urbanization and industrialization of that country. The increasing demand of river bed materials, the illegal mining (sand mafia) and mining in the agricultural field, floodplain area is increase and its effect the health, physical process and different function of rivers, degradation of the riparian zone, degradation of aquatic and terrestrial biodiversity. There are many environmental effects are generated due to the unscientific and up hazard river bed mining.

Several perennial as well as ephemeral rivers originating from Mahabharata and Churia range flow through Morang District carrying massive amount of sediment load. Each season, they deposit these loads along the river channels thus mounting river bed and widening flood plain area. Due to these, water induced hazards are accelerating every year. However, these riverbed materials are being looked as primary sources for construction materials. On the other hand, growing urbanization also demands high consumption of construction materials of river beds.

The Local Government Operation Act, 2074 (LGOA) vests the ownership of the rivers within the territory of the municipality and the sediments thereof on the municipality. The LGOA and Constitution of Nepal empowers Local Governments in planning and implementation of the local infrastructure's development. These legal and Constitutional measures give the authority to the local Government to collect the tax and fees on the use of these riverbed materials. Besides, as per the Act, Kerabari Rural Municipality has the responsibility to

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reduce and mitigate natural as well as human induced hazards. As such, these rivers present a huge opportunity to this rural municipality for revenue generation to invest on overall development of the municipality at the same time safeguarding the people from water induced hazards.

In such instance, Kerabari Rural Municipality is planning to extract river bed materials in the quantity of 100 m³-300 m³ per day from different rivers and streams and looking for the proposal from interested VAT registered firms and companies to conduct Initial Environmental Examination (IEE), prepare report and get approved from the concerned authority.

1.1 The proponent

The activity under the question is entitled "Sustainable extraction of riverbed materials from different rivers and streams of Kerabari Rural Municipality." Kerabari Rural Municipality is the executing implementing agency of the activity at the municipal level of the Initial Environmental Examination (IEE) study for the activities. The name and address of the Proponent is as follows:

Kerabari Rural Municipality(Planning & Revenue Section)

Morang, Province no. 01

Contact No.021-403110

Email: kerabariruralmun@gmail.com

Website: kerabarimun.gov.np

1.2 Brief Description of the Proposal

Kerabari Rural Municipality is seeking to sustainably extract the riverbed materials from four different rivers/streams namely

(1.)Bhaluwa-Lohandra khola(Turke,Biraje,Bhaluwa,Dhardhare,Khairghari,Belchauri and Devijhoda)

(2.)Khadam khola (Chinari Chowk, Mugu, Dangi, Titrigauda, Charpol, Aamjungi, Banchauri)

(3.) Mugu khola (Sanibare, Tamang Tole)

(4.) Hurhure khola (Hurhure, Mugu Dovaan)

1.3 Relevancy of the Proposal

Several perennial as well as ephemeral rivers originating from Mahabharata and Churia range flow through Morang District. These rivers carry massive amount of sediment load and deposition occurs along the rivers channels thus resulting riverbed mounting and flood plain area widening. Due to these, water induced hazards are accelerating every year. Thus, the activity has been proposed to:

- Reduce the risk of water induced disaster like flood, soil erosion, landslide, river cutting, etc. in the upstream and downstream region.
- Boost up the economic condition through the collection and exploration of river deposits like boulder, pebbles, gravel and sand.

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1.4 Rational of IEE

Any development activities have some environmental implication, whether beneficial or adverse. Therefore, it is pertinent to identify the complications/changes apparent in the physical, biological, socio-economic and cultural environmental condition of the project area along with the favourable or adverse impacts resulting from the activities associated with the activity.

Kerabari Rural Municipality is looking forward to extract river bed materials in the quantity of 100 m³-300 m³ per day from different rivers and streams. According to the statutory requirement of the Government of Nepal, (GoN) defined by Article 3 of Environmental Protection Act (EPA), 2076, Environment and Natural Resource Conservation Act (ENRCA),2076 and Schedule 2 (c) refereed by the Rule 5 of Environmental Protection Rule (EPR), 2077 under Mining Sector, it is mandatory to conduct IEE for the extraction and collection of riverbed materials if the extraction of 100 m³-300 m³ per day has to be done. Abide by these provisions, Kerabari Rural Municipality is looking forward for proposals for conduction of IEE for extraction of river bed materials from different rivers and streams. The approval of IEE will be in accordance to the Paragraph 2 (6.2 & 6.6) of Environment and Natural Resource Conservation Act (ENRCA), 2076

1.5 Objectives of IEE

The main objective of the IEE study is to access and inform decision makers by identifying the potentially significant environmental effects and risks of the proposed project and to suggest appropriate mitigation measures to mitigate/minimize the adverse impacts so that the project is implemented in an environmentally sound manner. The objectives of this IEE are:

- To document the physical, biological and socio-economic and cultural baseline condition of the project area;
- To analyse the alternative project alignment;
- To identify, predict assess the adverse and beneficial environmental impacts of the proposed project in project affected area in terms of magnitude, extent and duration during the project construction and operation phases;
- To suggest appropriate and pragmatic mitigation and enhancement measures for potential adverse impacts.
- To familiarize various stakeholders with the IEE outcomes through public consultation and participation programs and to incorporate their relevant concerns and issues in environmental management plan;
- To prepare an environmental action plan as well as effective monitoring and auditing programs; and
- To facilitate informed decision making including setting the environmental terms and conditions for implementing the proposed project.

2. Methodology

The firms undertaking this assignment should strictly follow the procedures provisioned in Environment Protection Act 2076 and Regulations 2077 and





2.1 Literature Review/Desk Study

The consultant team should undergo extensive review of published and unpublished readily available sources of relevant information. Such sources of information include publications of CBC, DCC, Rural Municipality, NGOs, Irrigation Office and all other relevant institutions. Similarly, the necessary information is also available in topographical maps. DHM record, IUCN red book etc. The consultant should review all the plans, policies, acts, rules and regulations, guidelines, strategies and standards that are attracted during or will govern IEE and the project regulation.

2.2 Site Visit and Field Works

The team will conduct field visit to the proposed site for both primary and secondary data collection based on physical, biological and socio-economic environment. Primary data will be collected through interaction with the public. Primary data especially related to physical, social and economic infrastructure such as road network, water supply, drainage, electricity, tele-communication shall be collected. Secondary data will be collected through websites, papers. It is more about socio-economic survey because questionnaire survey related to employment rate, literacy rate, health status, agricultural rate will be carried out.

Land use pattern, urban landscape, land values and environmental problems shall be collected through site observation and interaction with stakeholders. Data's related to sanitation and health status of affected families, local price of land and other commodities, problems and major issues, expected impacts and possible mitigation measures etc: will be collected.

2.3 Household Survey

It should be conducted to gather pertinent information on demography, education and skill, land holding, income/expenditure, etc.

2.4 Stakeholder Consultations

Consultations at different levels to gather relevant information, issues and concerns.

2.5 Focus Group Discussions

It can be conducted at different locations at the proposed sites with different types of local groups like concern communities, community forest user groups, etc. whereby intensive discussion will be held about the environmental sensitivity and concerns in the area, importance of environmental features located in the area, present status, and present problems of difficulties, potential solutions and consequences that are related in minimizing the possible impacts.

2.6 Key Informant Survey



2.7 Questionnaires and Checklists

The team should use standard field data collection tools like structured and semistructured questionnaires and checklists to guide collection of data and information that is pertinent to the study.

2.8 Impact Identification, Prediction and Evaluation

The consultant should identify and evaluate both possible and adverse impacts of the project operation on physical, biological and socio-economic domains of environment. The impacts should be classified in terms of Magnitude (High, Medium and Low), Extent (Regional, Local and Site-specific) and Duration (Long-term, Medium-term and Short-term).

2.9 Public Hearing

The study team should, in coordination with the proponent, should organize and facilitate public hearing programs to disseminate IEE report.

2.10 Review and Incorporation of Comments

The study 'team should present the IEE report along with presentation in review meeting at the concerned Rural Municipality and incorporate the comments to finalize the IEE report.

3. Issues to be considered in IEE

The proponent should consider following issues during the preparation of IEE report.

3.1 Physical and Chemical Environment

- Landscape disturbance
- Landslide, soil erosion and slope stability issues
- Sediment transport/Scouring
- Air quality (if it is possible)
- Noise level (if it is possible)
- Water quality (of rivers crossing the road alignment)
- Road safety measurers
- Quarry/borrow pit and disposal area/Stock of material
- Access Road
- Temporary disruption of Public utilities
- Re-instatement and Re-location of existing services
- Existing bridge, pipe culverts along the road for drainage outlet and gullies

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- Stock piling of materials
- Hazardous due to spoil disposal
- Pollution of water resources
- Water flow Disruption
- Contamination of Soil
- Impact on micro-climate

3.2 Biological Environment

- Loss of forest (Forest type and Available plant species)
- Pressure on Forest due to riverbed material extraction activity(firewood/timber)
- Pressure increased on forest (firewood/timber)
- Possible impact on flora and fauna (biodiversity)
- Impact on aquatic life and their habitat
- Disturbances to wildlife habitat movement
- Impacts on rare, endangered, protected and threatened species of flora and fauna and their habitat

3.3 Socio-economic Environment

- Impact due to influx of workforce in search of economic opportunities
- Impacts due to occupational health and safety hazards
- Issues related to change in social, structures, cultural and traditional practices of the rural people due to exposition to the outside workforce
- Issues related to dispute between outside workforce and local labors
- Issues related to pressure on existing infrastructure facilities such as health and safety, education, communication, water supply, etc. due to the larger number of outside workforces along with their families
- Risk of diminished local traditional occupation and skills, such as handcraft, indigenous medicinal practices, agro-based and forest product-based cottage industries
- Impact due to encroachment on cultural, historical and religious sites
- Impact on aesthetic value
- Impact on withdrawal in economic activities and employment opportunities
- Impact due to reduced agricultural activities
- Impact on existing water use
- Impact on gender and vulnerable groups

3.4 Beneficial Issues

- Reduction of flood and other related hazards due to river channelization
- Revenue generation for overall development of the district
- Employment opportunity and human resource development
- Increase in economic opportunities due to increase in trade and business and demand for goods and services
- Infrastructure (Road) development

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3.5 Mitigation and Enhancement Measures

The IEE study identifies, predicts, and evaluates the impacts of the road project on the environment. The ToR should indicate to document the environmental protection measures, both benefits augmentation measures and adverse impact mitigation measures in the IEE report. Mitigation measures can be categorized as preventive, corrective and compensatory measures.

3.6 Environmental Monitoring Plan

The proponent should prepare a detailed monitoring plan in terms of baseline, compliance and monitoring plan to assess the actual physio-chemical, biological, socio-economic and cultural effects of the project. The impact and baseline monitoring plans should indicate parameter, indicator schedule and method for monitoring. The cost of comprehensive monitoring plan and feedback should be included in the overall-monitoring program of environment management plan. The format for presentation and recording of data should be provided with whole monitoring activities and information and monitoring schedule in a chart.

3.7 Alternative Analysis

All the possible alternatives should be examined in order to achieve the identified objectives of the project and additionally to minimize the adverse impacts and maximize the benefits in the context of the benefit foreseen and risks of environmental hazards. The following alternatives should be dealt in details:

- No Action Alternative/ Do nothing Alternative
- Design Alternative
- Operation alternatives in terms of technology, procedures, and schedule
- Location alternatives
- Other alternatives

3.8 Environment Management Plan

EMP should include activities, impacts, mitigation and enhance measures, organizations responsible for the implementation of the mitigation measures and monitoring activities, schedules, cost and mode of co-ordination with the line agencies, Rural Municipality, and local people. It should also identify the human resources requirement of the monitoring and mitigation works, quantify the manmonth schedule and develop an action plan for all identified measures. The plan should also include monitoring procedure and especially the mechanism for compliance monitoring by spelling out the responsibilities of each concerned stakeholders.

3.9 Cost Benefit Analysis

It should be carried out total environmental cost to total project benefit.

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4. Timeline and other IEE Study Requirements

4.1 Time:

The study should be completed within 1.5 months after the date of contract signing. The firm should provide detail workplan of the study for the given time duration.

4.2 Team Composition:

The team composition for undertaking this assignment should be in accordance to the schedule 9 relating to the Rule 6 (7) of the Brief Environmental Study and Initial Environmental Examination, 2077. The team may include:

- Team Leader/Environmentalist
- Socio-Economist.
- Geologist/GIS Expert
- Natural resources expert
- Biologist
- Computer Operator
- Field Assistants

The team members should meet the minimum qualification and experience criteria mentioned in the schedule 9 relating to the Rule 6 (7) of the Brief Environmental Study and Initial Environmental Examination, 2077. The team may include

4.3 Other Requirements

- a. Final IEE report preparation and submission to Kerabari Rural Municipality after the approval from the Office of the Rural Municipal Executive no later than 1.5months from the date of contract Signing. The approval process may require preparation and submission of report and presentation of the report as well as incorporating the amendments if any, suggested by the IEE approving body setup by Office of the Rural Municipal Executive, Kerabari.
- b. The responsibility of presentation to the approving agency and getting the approval of the IEE rests upon the successful bidder.
- c. The conditions/requirements mentioned in the notice published by Kerabari Rural Municipality regarding the invitation of the proposal should be read as integral part of this ToR as well and report submission must be 3 copy along with e-copy.
- d. The terms and conditions mentioned in this ToR will apply for any related issue, whereas the rest will be addressed in accordance to the prevalent rules and regulations of the Government of Nepal.

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Sealed Evaluation Criteria (100 Full Marks)

For the Evaluation of TECHNICAL PROPOSAL for Conducting Initial Environmental Examination for the Sustainable Extraction of Riverbed Materials from Different Rivers/ Streams of Kerabari Rural Municipality, Morang

Full Marks: 100 Pass Marks: 60

| S.N. | Selection Criteria | Marks | N | larks Obtain | ned |
|-----------|--|-------|---------|--------------|---------|
| | | | Firm A | Firm B | Firm C |
| 1. | General Work Experience of the Firm(IEE or EIA or EA of any projects like rivers, forest, industries, Engineering projects like Road, Water Supply, Buildings, Hall, Complex, Airport, Hydropower Bridges or Similar Projects) | 10 | | | |
| a. | No. of Project above 5 nos | | | | |
| b. | No. of Project 3 to 5 nos | | | | |
| c. | No. of Project below 3 nos | | | | |
| d. | No any Projects | | | | 8 |
| 2. | Specific Expérience (IEE or EIA or both of Rivers/Stream in related Fields) of Consulting Firm | 10 | | | |
| a. | Experience in related projects in more than 5 nos (at least 3 IEE/EIA of Sand/Gravel extraction) | | | | |
| b. | Experience in related projects in 3 to 5 nos (at least 3 IEE/EIA of Sand/Gravel extraction) | | | | |
| c. | Experience in related projects in less than 3 nos and at least 2 project (at least 2 IEE/EIA of Sand/Gravel extraction) | | (| | 8 |
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| 3 | Qualification and competence of the consultant Team proposed for the assignment (eligibility for a selection requires at least masters degree and engagement in at least 3 IEE/EIA, experience preference is given to IEE/EIA of sand/gravel extraction) | 40 | | गतारी, रहेव त. प्रदेश | |
| a. | Team Leader/Environmentalist | 8 | | | |
| | Qualification | 4 | | | |
| | Higher Degree than in TOR | | | | |
| | Master Degree in related field as mentioned in the TOR | | | | |
| | Experience | 4 | | | |
| | Experience as a team leader in more than 5 IEE/EIA projects | | | | |
| | Experience as a team leader in 3 up to 5 IEE/EIA projects | | | | <u> </u> |
| b. | Geologist/GIS Expert | 8 | | | |
| | Qualification | 4 | | | |
| | Higher Degree than in TOR | | | | |
| | Master Degree in related field as mentioned in the TOR | | | | |
| | Experience | 4 | | | |
| | Experience in more than 5 IEE/EIA projects | | | | |
| | Experience in 3 up to 5 IEE/EIA projects | | | | |
| c. | Sociologist/Socio-economist | 8 | | | |
| | Qualification | 4 | | | |
| | Higher Degree than in TOR | | | | |
| | Master Degree in related field as mentioned in the TOR | | | | 1 |
| | Experience | 4 | | | |
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| 4. Under Metho | standing of ToR and dology | 30 | | | |
| a. Metho 2076 a | dology (On the basis of EPA nd EPR 2077) | 15 | | | |
| i Under. work a | stand of objectives, Scope of nd ToR | 8 | | | |
| All thur unders | ree variables are explained and tood in a very clear manner | | | | 1 |
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| | One variables are explained and understood in a very clear manner | | म् प्रदेश नेपाल | |
| | Not Significant | | | |
| ii | Proposed Methodology | 7 | | |
| | Clear Methodology with flowchart | | | |
| | Clear Methodology without flowchart | | | |
| | General Methodology | | | |
| | Not Significant | | | |
| b. | Work Plan/ Schedule | 15 | • | |
| | (Basic concept: Time bound, relation between estimated time and stipulated activity according to methodology and overall judgment) | | | |
| | Clear Work Plan and Schedule justified with methodology | | | |
| | Moderately justify the methodology, with work Schedule | | | |
| | Moderately justify the methodology, with no work Schedule | | | |
| | Not significant | | | |
| 5. | Technology transfer/Trainings | 10 | | |
| | Significant Description and Charts | | | |
| | General | | | |
| | Not Significant | | | |
| | Total Marks | 100 | | |

- Submitted Documents along with supporting documents (Bio-data Experiences and other related documents) must be signed, verified and not contain any ambiguity.
- Only the financial proposals of those firms securing more than 60% marks in the technical proposals will be considered for financial evaluation. The weights given to the technical and Financial Proposals are:

T (Technical Proposal) = 80% and

P (Financial Proposal) = 20% Coverage

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Kerabari Rural Municipality Office of the Rural Municipal Executive Kerabari, Morang Province No 1 <u>Bill of Quantity</u>



Job Description: Initial Environmental Examination For Sustainable Extraction of Riverbed Material from different Rivers/ Streams of Kerabari Rural Municipality

Name of Rivers/ Streams = (1.) Bhaluwa-Lohandra khola (2.) Khadam khola (3.) Mugu khola (4.) Hurhure khola

Contract No: KRM/MOR/S/SQ/01-077/78

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| | (4.) Hurhure khola | 2 | • | | | | |
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| | | | | Sub-Total | | | |
| | | | | VAT (13%) | | 8 | |
| | | | | Total | - | | |
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