



प्रदेश सरकार
भौतिक पूर्वाधार विकास मन्त्रालय
यातायात पूर्वाधार निर्देशनालय

पत्र संख्या:

चलानी नं.

गण्डकी प्रदेश

पोखरा, नेपाल

मिति : २०६६/०५/२८

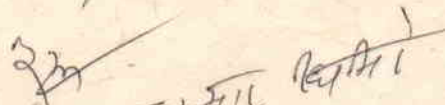
टिप्पणी आदेश

विषय: Initial Environmental Examination (IEE) of Roads का लागि TOR and Evaluation criteria स्वीकृत सम्बन्धमा ।

श्रीमान्

यस निर्देशनालयको आ.व. २०७६/७७ को स्वीकृत वार्षिक कार्यक्रम अनुसार, एक निर्वाचन क्षेत्र एक सडक, विभिन्न पालिकाहरूको केन्द्र जोड्ने सडक तथा अन्य सडकहरूको Initial Environmental Examination (IEE) प्रतिवेदन तयार गर्ने परामर्श सेवा खरिद गरि कार्य अगाडी वढाउनको लागी TOR and Evaluation criteria आवश्यक पर्ने भएकोले यस साथ रहेको TOR and Evaluation criteria प्रदेश सरकार भौतिक पूर्वाधार विकास मन्त्रालयबाट स्वीकृत हुन मनासिब देखि निर्णायार्थ पेश गर्दछु ।


पत्रा गुरु
(प्रशासकीय)
इन्जिनियर
२०६६/०५/२८


दिनेश कुमार खत्री
२८/५/२८

श्रीमान्, यस अनुसार IEE प्रतिवेदन तयारी कार्यको लागि TOR र Evaluation Criteria स्वीकृत गर्न मनासिब हामी निर्णयित गर्दछौं ।


२०७६/०५/२८
वि. डी. डी. रामकुमार श्रेष्ठ
(नि. निर्देशक)

हृदय

२०६६/०५/२८
सचिव



Terms of Reference (IEE)

1. Introduction

Provincial Government of Gandaki Province would be responsible to meet the expenses against compensation, acquisition of land/ building, royalty, tax refund, maintenance of handed over section, administrative cost, Environmental study etc. The provincial government of Gandaki Province has been giving high priority for development of roads and bridges Transport Infrastructure Directorate (TID). Kaski Pokhara intends to carry out Initial Environmental Examination of road. The objective of this project is to carry out environmental study before constructing or upgrading existing Roads.

The Ministry of Physical Infrastructure Development (MOPID), Transport Infrastructure Directorate (TID), Gandaki Province, Pokhara, Kaski, Nepal, has allocated fund from its resources towards **Initial Environmental Examination (IEE)** of
.....Road and intends to apply a portion of this fund to eligible engineering consulting firms well experienced in the fields of IEE ,under the contract for which this RFP is invited to Short listed consultant for Consulting Service.The consultancy service will be procured in accordance with the Public Procurement Act 2063, Public Procurement Regulation 2064 and Public Work Directives 2002.

1.1 Legal Relevancy

In accordance to Environmental Protection Act (EPA), 1997 and Environmental Protection Rule (EPR), 1997, Initial Environmental Examination (IEE) is mandatory for Upgrading, Reconstruction and Construction of National Highway and Feeder Roads. As per Schedule-1 (Pertaining to Rule 3) of EPR, 1997 and the subsequent amendment, the following provision leads to undergo IEE procedure.

The construction of following roads

- a) District Roads
- b) Urban Roads
- c) Rural Road
- d) Small Feeder Road and
6. Improvement, up grading and reconstruction of national highways and feeder roads

2. Objective of the consultancy services

The proposed consultancy services intends to carry out Environmental Study as mentioned in section 1 for construction or upgrading of road to all weather bituminous road standard . The Directorate is now required to prepare Initial Environmental Examination (IEE) report before implementation of proposed construction or upgrading of existing road to all weather bituminous road. To facilitate Proponent the Consultant shall prepare a Terms of Reference (ToR) in the format as indicated in Environment Protection Rule (EPR) 2064. The Ministry of Federal Affairs and General Administration (MoFAGA) or other authorized Entity may approve the ToR as submitted or in the revised form. The Consultant is required conducting IEE study based on approved Terms of Reference. The IEE report, thus prepared, is also required to be approved from the same authority i.e. MoFAGA or other authorized Entity. The summary of objective of the consulting service is to conduct the following jobs.

- Preparation of Initial Environmental Examination (IEE) study of the proposed project.
- To identify baseline information of existing site
- To document the existing physical, biological, socio-economic and cultural environment of the Proposal affected area.
- To identify, evaluate and classify the impacts.
- To develop mitigation measures to avoid/reduce/mitigate adverse impacts due to implementation of the Proposal.
- To develop enhancement measures to enhance the beneficial impacts due to implementation of the Proposal.

- To formulate environmental management plan.
- To ensure that IEE is sufficient for the environmental assessment of the project

3. Scope of Work

The principal services to be provided by the consultants to fulfill the objective of the services are detailed below. However, these services are indicative of the overall tasks to be performed by the consultants. The consultant shall be responsible for carrying out all necessary office and field works including topographical map study, alignment assessment, geological assessment, necessary laboratory testing to prepare ToR and Report, which shall incorporate all the priority issues of work by categorizing them into physical, biological, socio-economic, and cultural aspects of both Beneficial and Adverse types, for both pre-construction, construction and post-construction, operational and maintenance stages, as per EPA 2053 and EPR 2064 with amendments.

The consultants should refer to other project reports, however the responsibility for verification of the accuracy of the data, findings and conclusion contained therein shall rest with the consultants. The entire task must follow the requirement and standard acceptable to TID and should be based on current proven and accepted practices and Environmental and Social Management Framework (ESMF). The consultant shall carry out their services in accordance with accepted professional standards, utilizing sound engineering and economic practices.

• 3.1 Terms of Reference

The ToR provides guidance to the Consultant to prepare the IEE report. The ToR is meant for listing activities to be performed during the preparation of the IEE report with specific guidance including:

Location wise site specific information & Quantification

- Identification and description of the issues to be investigated;
- Systematizations of the working procedures;
- Delineation of the working procedure;
- Delineation of the specific activities to be undertaken;
- Fitting the IEE study within the context of existing policies, laws and administrative procedures;
- Clarification of the responsibilities of the different institutions involved in the project cycle;
- Setting out a time frame with the required experts for carrying out the IEE study together with the estimated budget required;
- Accomplishment of the works within the specified time;
- Special emphasis to the most significant aspects of the study; and
- Technical guidance relating to the main aspects of the environment which will require delineation during the course of the IEE study.

The TOR should follow SMART (specific, measurable, achievable, result oriented and time framed) rule to the extent possible and with due consideration on the legal provisions and the Schedule- 3 of the EPR 1997.

Data collection

The TOR should clearly spell out the methods and techniques, which shall be employed during data collection. For example, the TOR should indicate the data sources and data collection methods, particularly the primary and secondary data. It could also include methods, which shall be used while collecting the

Evaluation Criteria for IEE roads/ Bridge

Minimum Technical Score required to pass :60

Method of Selection:-Quality and Cost Based Selection(QCBS)

Total weight given to technical (T) and Financial (F) proposal are :-T=80%, F=20%

S.N	Description	Marks	Weightage with respect to maximum marks	Remarks
1	Specific Experience of the Consultants related to the Assignment (Specific Experience related to the Completion of job of " EIA or IEE preparation of Roads" within last Seven Fiscal Years)	20		
a	EIA or IEE preparations of roads	10		
	EIA or IEE study of road projects > or =5	10	100%	
	EIA or IEE study of road projects =4	8	80%	
	EIA or IEE study of road projects =3	6	60%	
	EIA or IEE study of road projects =2	4	40%	
	EIA or IEE study of road projects =1	2	20%	
b	IEE or EIA of any engineering project	6		
	IEE or EIA study of road project =3	6	100%	
	IEE or EIA study of road project =2	4	67%	
	IEE or EIA study of road project =1	2	33%	
c	EMP preparations of roads	4		
	EMP of any engineering project =2	4	100%	
	EMP of any engineering project =1	2	50%	
2	Adequacy of the proposed work plan and methodology in responding to the Terms of Reference	25		
	<i>(a) Understanding the objective and scope of Consulting Services</i>	5		
	Excellent	5	100%	
	Very Good	4	80%	
	Good	3	60%	
	<i>(b)Description of Methodology in IEE Preparation of Road/Bridge</i>	15		
	Excellent	15	100%	
	Very Good	12	80%	
	Good	9	60%	
	<i>(c)Time Schedule for Professional Personnel</i>	2		
	Excellent	2	100%	
	Very Good	1.6	80%	
	Good	1.2	60%	
	<i>(d)Activity Work Schedule</i>	3		
	Excellent	3	100%	
	Very Good	2.4	80%	
	Good	1.8	60%	
3	Qualification and Competency of the Key Staffs	50		

3.1	(a) Team Leader (Environmental/Forestry Specialist/Ecologist) Master's Degree in Environmental science or engineering	10		
	More than 7 Years General experience & 5 Years Specific Experience	10	100%	
	6- 7 years General experience & 4 Years Specific Experience	8	80%	
	3-5 years General experience & 3 Years Specific Experience	6	60%	
	(b) Experience	2		
	Work Experience in Similar Assignment more than Three Jobs	2	100%	
	Work Experience in Similar Assignment of Two to Three Jobs	1.2	60%	
3.2	(Geologist/Geotechnical Engineer, Master's Degree in Geology or Geotechnical Engineering	8		
	More than 7 Years General experience & 5 Years Specific Experience	8	100%	
	6- 7 years General experience & 4 Years Specific Experience	6.4	80%	
	3-5 years General experience & 3 Years Specific Experience	4.8	60%	
	(b) Experience	2		
	Work Experience in Similar Assignment more than Three Jobs	2	100%	
	Work Experience in Similar Assignment of Two to Three Jobs	1.2	60%	
3.3	Highway/Transportation /Bridge engineer, Bachelor Degree in Civil Engineering or more	8		
	More than 7 Years General experience & 5 Years Specific Experience	8	100%	
	6- 7 years General experience & 4 Years Specific Experience	6.4	80%	
	3-5 years General experience & 3 Years Specific Experience	4.8	60%	
	(b) Experience	2		
	Work Experience in Similar Assignment more than Three Jobs	2	100%	
	Work Experience in Similar Assignment of Two to Three Jobs	1.2	60%	
3.4	(a) Hydrologist (Msc in Water Resources/Hydrology)	6		
	More than 7 Years General experience & 5 Years Specific Experience	6	100%	
	6- 7 years General experience & 4 Years Specific Experience	4.8	80%	
	3-5 years General experience & 3 Years Specific Experience	3.6	60%	
	(b) Experience	2		
	Work Experience in Similar Assignment more than Three Jobs	2	100%	

	Work Experience in Similar Assignment of Two to Three Jobs	1.2	60%	
3.5	<i>Socio-economist (Master's Degree in sociology/Economics)</i>	8		
	More than 7 Years General experience & 5 Years Specific Experience	8	100%	
	6- 7 years General experience & 4 Years Specific Experience	6.4	80%	
	3-5 years General experience & 3 Years Specific Experience	4.8	60%	
	<i>(b) Experience</i>	2		
	Work Experience in Similar Assignment more than Three Jobs	2	100%	
	Work Experience in Similar Assignment of Two to Three Jobs	1.2	60%	
4	Suitability of Transfer of Knowledge program	5		
	Commitment to organize orientation program at Transport Infrastructure Directorate Ministry of Infrastructure Development Gandaki Province Pokhara, Nepal and streamlining TID, MoPID staff and study methodology, review of Roads and finally in the preparation of IEE with attached work Schedule and proposed Methodology			
	(a) Excellent:	5	100%	
	(b) Very Good:	4	80%	
	(c) Good:	3	60%	

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2/11

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प्रदेश सरकार
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यातायात पूर्वाधार निर्देशनालय

(१)

पत्र संख्या:

चलानी नं.

गण्डकी प्रदेश

पोखरा, नेपाल

मिति : २०७६/०४/२४

टिप्पणी आदेश

विषय: Initial Environmental Examination (IEE) तथा Environmental Impact Assessment (EIA) of Roads का लागि Norms स्वीकृत सम्बन्धमा ।

श्रीमान्

यस निर्देशनालयको आ.व. २०७६/७७ को स्वीकृत वार्षिक कार्यक्रम अनुसार, एक निर्वाचन क्षेत्र एक सडक, विभिन्न पालिकाहरुको केन्द्र जोड्ने सडक तथा अन्य सडकहरुको Initial Environmental Examination (IEE) तथा Environmental Impact Assessment (EIA) of Roads का लागत अनुमान तयारी गर्नका लागि सडक विभागको स्वीकृत नर्म्स लाई आधार मानि तयार गरिएको तपसिल बमोजिम को नर्म्स प्रदेश सरकार भौतिक पूर्वाधार विकास मन्त्रालयबाट स्वीकृत हुन मनासिब देखि निर्णायार्थ पेश गर्दछु ।

चु-३
उप-३
काज आचार्य
(इन्जिनियर)
२०७६/०४/२४

३/३
दिनेश कुमार श्रेष्ठ
३/३/२४

श्रीमान्, जेठा नम्र अनुसार IEE र EIA गरी
Roads प्रतिवेदन तयारी गर्नको लागि परेको
Norms लाई आधार मानी तयार गरिएको Norms
स्वीकृत गर्न मनासित हुने प्रस्तावित अनुसन्धान छ ।

३/३/२४
२०७६/०४/२४
प्रि.डि.ई. रामकुमार श्रेष्ठ
(प्रि.निर्देशक)

Provincial Government
Ministry of Physical Infrastructure and Transport
Transport Infrastructure Development
Gandaki, Province
Norms for Rate Analysis

(2)

Date: 2076/05/24

Initial Environmental Examination (IEE)

Unit = km(for upto 10km of Road)

1 Manpower

	Professional/Supporting Staff	Unit	Desk Study	Travel	Field Work	Report Preparation	Total	Rate
A	Key Staff							
1	Team Leader(Environmental/Forestry Specialist/Ecologist)	day	7	3	2	14	26	4793
2	Highway/Transportation Engineer/Bridge Engineer	day	2	3	2	7	14	4472
3	Geologist/Eng.Geologist/Geo-Technical Engineer	day	2	3	2	4	11	4472
4	Hydrologist	day	1	3	2	4	10	4472
5	Socio-Economist	day	2	3	2	7	14	3199
6	Legal Expert	day				2	2	3199
B	Supporting Staff							
1	Technical Assistance(Physio-chemical)	day		3	3	4	10	2546
2	Technical Assistance(Biological)	day		3	3	4	10	2546
3	Technical Assistance(Socio-Economic)	day		3	3	4	10	2546
4	Account admin staff	day	1			4	5	1540
5	Computer operator	day	2			5	7	1540
6	Surveyor	day			3	4	7	2396
7	Support staff/helper	day	2		12	14	28	district rate

*Adjust Travel Time in above table as per location of work site as; 1 day for Kathmandu Valley, 2 day with in state no 3 and 3 days out side of State no 3.

- | | | |
|--|----|---------------------------------|
| 2 Transportation of personals | Ls | 10% cost of manpower required |
| 3 Tools and equipments for data collection | Ls | 5% of cost of manpower required |
| 4 Stationary and logistic support | Ls | 5% of cost of manpower required |

Note:

- a) In case of Terai road determine manpower requirement of field work component as 80 percent of above mention value.
- b) for other than 10 km length, determine per km manpower requirement and modify as follows:
 1. if $L < 10$ km, determine per km manpower requirement and deduct @80% of md per km except travel and calculate total cost accordingly after adjustment in (a) above. [for example, in case of 6 km road for team leader in above, find manpower for 10km i.e desk study=7, field work =2, report preparation =14, total = 23 md, for Team leader except travel $23/10$ md per km; for 6 km it will be $23-4*23/10*0.8 = 15.64$ and travel 3 days i.e total time in md in Gandaki province will be 18.64 md]
 2. if $L > 10$ km, determine per km manpower requirement and add @80% of md per km on and calculate total cost accordingly after adjustment in (a) above. [for example, in case of 12 km road ,for team leader in above, find manpower for 10 km i.e desk study=7, field work =2, report preparation =14, total = 23 md, and $23/10 = 2.3$ md per km excluding travel for 12 km, it will be $23+2*23/10*0.8 = 26.68$ and travel 3 day i.e, total time in Gandaki province will be 29.68 md]
 3. for more than one road, in a package; consider longest road first and add cost after applying road factors as 80 % of cost with in 10 km distance and 90% of cost for outside of 10 km distance for each additional road.

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सचिव

गण्डकी प्रदेश विकास मन्त्रालय
गण्डकी प्रदेश
पोखरा