



राष्ट्रिय प्रसारण ग्रिड कम्पनी लिमिटेड
Rastriya Prasaran Grid Company Limited

Expression of Interest (EOI)

Title of Consulting Services: Initial Environmental Examination (IEE) Study of Sitalpati–Dhungesanghu 220 kV Double Circuit Transmission Line Project

Method of Consulting Service National

Project Name: Consulting Services for Initial Environmental Examination (IEE) Study of Sitalpati–Dhungesanghu 220 kV Double Circuit Transmission Line Project

EOI: RPGCL/EOI/NCB/083-84/01

Office Name: Rastriya Prasaran Grid Company Limited

Office Address: Buddhanagar, Kathmandu-10, Nepal

Issued on: 2083-06-15 (2026-10-1)

Financing Agency: Government Budget

October, 2026

Abbreviations

CV	Curriculum Vitae
DO	Development Partner
EA	Executive Agency
EOI	Expression of Interest
GON	Government of Nepal
PAN	Permanent Account Number
PPA	Public Procurement Act
PPR	Public Procurement Regulation
TOR	Terms of Reference
VAT	Value Added Tax
CBD	Convention on Biological Diversity
CBS	Central Bureau of Statistics
CFUGs	Community Forest User Groups
CITES	Convention on International Trade in Endangered Species
DBH	Diameter at Breast Height
DHM	Department of Hydrology and Meteorology
DLRO	District Land Revenue Office
DLSO	District Land Survey Office
DNPWC	Department of National Parks and Wildlife Conservation
DoED	Department of Electricity Development
DoLMA	Department of Land Management and Archive
DoS	Department of Survey
DFO	Divisional Forest Office
EPA	Environment Protection Act, 2076
EPR	Environment Protection Rules, 2077
ESMP	Environmental and Social Management Plan
GIS	Geographic Information System
GLOF	Glacial Lake Outburst Flood
GoN	Government of Nepal
IEE	Initial Environmental Examination
MoEWRI	Ministry of Energy, Water Resources and Irrigation
MoFE	Ministry of Forests and Environment
MUTM	Modified Universal Transverse Mercator
PAFs	Project Affected Families
ROW / RoW	Right of Way

RPGCL	Rastriya Prasaran Grid Company Limited
ToR	Terms of Reference
TSMP	Transmission System Master Plan

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A. Request for Expression of Interest

Rastriya Prasaran Grid Company Limited

Date: 2026-10-01

Name of Project: Sitalpati-Dhungesanghu 220kV Transmission Line Project

1. Government of Nepal (GoN) has allocated fund toward the cost of Consulting Services for Initial Environmental Examination (IEE) Study of Sitalpati–Dhungesanghu 220 kV Double Circuit Transmission Line Project and intend to apply portion of this fund to eligible payments under the Contract for which this Expression of Interest is invited for National consulting service
2. The Rastriya Prasaran Grid Company Limited now invites Expression of Interest (EOI) from eligible consulting firms (“consultant”) to provide the following consulting services: As per EPR, 2077, Schedule 2, Rule 3, GoN of Nepal, it is mandatory to conduct the IEE for Transmission line project which is design to evacuate the power at voltage level 132 kV or above. In order pursue the power evacuation from the hydropower-rich eastern region of Nepal, RPGCL willing to carry 220 kV transmission line connecting Dhungesanghu substation to Sitalpati substation. In this regard, RPGCL (here after called Client) seeking competent and qualified consulting firm to carry of the Preparing Detail TOR of IEE and IEE Report.
3. Interested eligible consultants may obtain further information and EOI document free of cost through the client website www.rpgcl.com
4. Consultants may associate with other consultants to enhance their qualifications.
5. Expressions of interest shall be delivered manually to the address Rastriya Prasaran Grid Company Limited, BPC Building, Rudramati Marg, Buddhanagar, Kathmandu-10, Nepal before 16:00 Noon on **2026-10-16**.
6. In case the last date of obtaining and submission of the EOI documents happens to be a holiday, the next working day will be deemed as the due date but the time will be the same as stipulated.
7. EOI will be assessed based on **Qualification 50%, Experience 40%, and Capacity 10%** of consulting firm and key personnel. Based on evaluation of EOI, only shortlisted firms will be invited to submit technical and financial proposal through a request for proposal.
8. Minimum score to pass the EOI is **65%**.

B. Instructions for submission of Expression of Interest

1. Expression of Interest may be submitted by a sole firm or a joint venture of consulting firms and the maximum number of partners in JV shall be limited to three.
2. Interested consultants must provide information indicating that they are qualified to perform the services (*descriptions, organization and employee and of the firm or company, description of assignments of similar nature completed in the last 7 years and their location, experience in similar conditions, general qualifications and the key personnel to be involved in the proposed assignment*).
3. This expression of interest is open to all eligible consulting firm/ company/ organization.
4. The assignment has been scheduled for a period of 12.5 months. Expected date of commencement of the assignment is 2027-01-20.
5. A Consultant will be selected in accordance with the QCBS method.
6. Expression of Interest should contain following information:
 - (i) A covering letter addressed to the representative of the client on the official letter head of company duly signed by authorized signatory.
 - (ii) Applicants shall provide the following information in the respective formats given in the EOI document:
 - EOI Form: Letter of Application (Form 1)
 - EOI Form: Applicant's Information (Form 2)
 - EOI Form: Work Experience Details (Form 3(A) & 3(B))
 - EOI Form: Capacity Details (Form 4)
 - EOI Form: Key Experts List (form 5).
7. Applicants may submit additional information with their application but shortlisting will be based on the evaluation of information requested and included in the formats provided in the EOI document.
8. The Expression of Interest (EOI) document must be duly completed and submitted by mail / by hand / by courier in sealed envelope.
9. The sealed envelope shall be clearly marked as "EOI Application for Short-listing for the Consulting Service for Initial Environmental Examination (IEE) study of Sitalpati-Dhunganaghu 220kV Transmission Line Project. The Envelope shall also clearly indicate the name and address of the Applicant.
10. The completed EOI document must be submitted on or before the date and address mentioned in the **"Request for Expression of Interest."** In case the submission falls on public holiday the submission can be made on the next working day. Any EOI Document received after the closing time for submission of proposals shall not be considered for evaluation.

OBJECTIVE OF CONSULTANCY SERVICES OR BRIEF TOR

1. Introduction

RPGCL proposes to develop the Sitalpati–Dhungesanghu 220 kV Double Circuit Transmission Line Project to evacuate approximately 600 MW of power from the hydropower-rich eastern region of Nepal. The project traverses Sankhuwasabha and Taplejung Districts in Koshi Province, covering an estimated corridor length of approximately 48 km. The alignment passes through diverse terrain including high and low valleys, cultivated lands, forest areas, and scattered human settlements. Significant waterway crossings include the Arun River and Sabha Khola, in addition to several seasonal streams. As per Section 3 of the Environment Protection Act (EPA), 2076, it is mandatory to conduct an Environmental Assessment for development projects prior to their construction. According to Rule 3 and Schedule 2 of the Environment Protection Rules (EPR), 2077, the proposed Sitalpati–Dhungesanghu 220 kV Transmission Line Project is required to undergo an Initial Environmental Examination (IEE). Accordingly, RPGCL invites qualified consulting firms to undertake the IEE study for this Project.

2. OBJECTIVES OF THE SERVICES

The primary objective is to engage a qualified and experienced consulting firm to conduct the Initial Environmental Examination (IEE) Study for the Sitalpati–Dhungesanghu 220 kV Double Circuit Transmission Line Project in compliance with the Environment Protection Act, 2076 and Environment Protection Rules, 2077.

The specific objectives of the assignment are:

- I. To prepare a comprehensive IEE Report for the proposed 220 kV transmission line project in accordance with Schedule 11 (or the latest prescribed format) of EPR 2077, including a detailed Environmental and Social Management Plan (ESMP) and Environmental Monitoring Plan (EMP) with cost estimates.
- II. To conduct cadastral mapping of the Right of Way (RoW) and tower pad areas, and to prepare verified land ownership details from District Land Revenue and Survey Offices based on parcel data provided by the Client.
- III. To prepare a comprehensive report on private and government land affected by the project, based on data provided by the Client and verified through field surveys and institutional coordination.

IV. To facilitate and support the ToR preparation, public hearing process, stakeholder consultations, and the submission and approval of the IEE Report through MoEWRI via DoED.

3. SCOPE OF SERVICES

The Consultant shall carry out an Initial Environmental Examination (IEE) of the proposed 220 kV Double Circuit Transmission Line Project, including cadastral mapping of the RoW and tower pad areas. The assignment shall comprehensively assess the physical, biological, and socio-economic environments; identify likely impacts; and recommend mitigation, management, and monitoring measures in accordance with EPA 2076, EPR 2077, and other applicable regulations. The scope of services shall include, but not be limited to, the following:

3.1 Physical Environment

- Assess topography, geology, geomorphology, soil characteristics, and existing land use patterns along the TL corridor.
- Identify and map geo-hazards including active landslide zones, erosion-prone areas, and fault lines.
- Review river and stream crossings, hydrological features, and access road conditions.
- Assess baseline air quality, ambient noise levels, and surface water quality at representative monitoring stations.
- Conduct hazard and risk mapping for the entire project corridor, including RoW and tower pad areas.
- Assess availability and suitability of local construction materials.

3.2 Biological Environment

- Conduct systematic tree enumeration within the RoW and tower footing areas, including measurement of Diameter at Breast Height (DBH), height, and volume estimation.
- Conduct flora and fauna assessments through direct field surveys using transect surveys, point count methods, and indirect sign surveys.
- Carry out migratory bird assessments using vantage point surveys at appropriate locations along the corridor.

- Document species diversity, abundance, conservation status (IUCN Red List, CITES, national list), and sensitive habitats.
- Collect supervision records and forest clearance information from Divisional Forest Offices (DFOs) during tree enumeration.
- Assess the potential impact on Community Forest User Groups (CFUGs), protected areas, and ecologically sensitive habitats.

3.3 Socio-Economic Environment

- Collect baseline demographic, socio-economic, and livelihood information for project-affected districts, municipalities/rural municipalities, and communities.
- Identify, profile, and map Project Affected Families (PAFs), including gender and vulnerability analysis.
- Assess livelihood patterns, land use, agricultural practices, local markets, infrastructure, and available social services.
- Evaluate cultural, historical, archaeological, and religious sites within and adjacent to the project corridor.
- Identify vulnerable groups, indigenous peoples (IPs), and Janajati communities, and assess potential impacts in compliance with national laws and international standards.

3.4 Public Consultation and Disclosure

- Organize and conduct Public Hearings in each affected local level as per Section 3(5) of EPA 2076 and Rule 6 of EPR 2077.
- Publish approved public notices in a national daily newspaper at least 7 days prior to each public hearing.
- After public hearings, publish a 7-day public notice (as per Schedule 9 of EPR 2077) in national daily newspapers inviting written comments from the public.
- Collect deeds of inquiry (notice pasting records) and document all stakeholder feedback and responses.
- Collect recommendation letters in the format prescribed under Schedule 14 of EPR 2077 from affected local levels, CFUGs, and relevant government agencies after the mandatory 7-day post-hearing notice period, as per Rule 8(8) of EPR 2077.

- Document all consultation events, feedback received, and responses provided, for inclusion in the IEE Report.

3.5 IEE Report Preparation

- Identify and prioritize potential environmental and social impacts in accordance with Schedule 12 (Table 8.2) of EPR 2077.
- Propose appropriate mitigation and enhancement measures in compliance with Section 10 of EPA 2076.
- Develop a site-specific Environmental and Social Management Plan (ESMP) with a detailed cost breakdown.
- Prepare an Environmental and Social Monitoring Plan (ESMP) with clear indicators, verification methods, frequency, responsible institutions, and budget provisions.
- Prepare the final IEE Report incorporating all baseline data, impact assessment, ESMP, monitoring plan, public hearing records, recommendation letters, and expert CVs as required under Schedule 11 and Schedule 13 of EPR 2077.

3.6 Cadastral Mapping and Reporting

The Consultant shall identify, demarcate, verify, and document all land parcels affected by the proposed 220 kV Transmission Line (TL) alignment and associated tower pad locations to support land acquisition, compensation planning, right-of-way (RoW) determination, and the environmental assessment process. The Client (Rastriya Prasaran Grid Company Limited – RPGCL) shall facilitate official correspondence with relevant government agencies wherever required. The Consultant shall be fully responsible for all technical works, follow-up coordination, data collection, processing, verification, field investigations, preparation of cadastral deliverables, and obtaining necessary technical verification from concerned authorities.

The cadastral mapping activities shall be carried out in the following stages:

Step 1: Cadastral Data Collection and Preparation

- The Consultant shall identify all relevant cadastral sheet numbers, free-sheet cadastral maps, and affected cadastral coverage areas based on the proposed transmission line alignment and required Right-of-Way 50-meter (RoW) corridor.

- The Consultant shall be solely responsible for accurate identification of all required cadastral maps. Any additional cost incurred due to incorrect identification, omission, or misclassification of cadastral sheets shall be borne entirely by the Consultant.
- RPGCL shall procure the required cadastral maps from the Department of Survey after verification and confirmation of required sheet numbers by the Consultant. Geo-referencing, coordinate transformation, and all subsequent technical processing shall remain within the Consultant's scope of work.
- The Consultant shall collect, review, scan, geo-reference, digitize, and prepare cadastral maps using authorized coordinate transformation parameters in Nepal Modified Universal Transverse Mercator (MUTM) and WGS 84 coordinate systems.
- Official letters required for obtaining cadastral records and ownership information from District Land Survey Offices (DLSOs), District Land Revenue Offices (DLROs), Survey Department, and other relevant government agencies shall be prepared by the Consultant and formally facilitated by the Client whenever required.
- The Consultant shall undertake all necessary follow-up coordination, technical processing, and documentation required to obtain available field books, plot registers, Shresta records, ownership records, and other relevant cadastral information from the concerned government offices.

Step 2: Transmission Line Route Integration

- The Consultant shall overlay the final transmission line alignment onto the cadastral base maps to identify and extract all affected land parcels from 25 m of Transmission line center alignment on each side.
- The Consultant shall prepare parcel-level spatial and attribute information including, but not limited to: Parcel Number (Kitta No.), Ownership Details, Three-Generation Lineage/Genealogy, Parcel Area, Land Classification and Land Use Category, Tower Number and Tower Coordinates, Span Information, Right-of-Way (RoW) Affected Area, Tower Pad Affected Area and other compensation-related land information
- The Consultant shall prepare a comprehensive parcel attribute database in Excel format together with corresponding GIS spatial layers.

Step 3: Land Parceling Map Preparation

- The Consultant shall prepare Right-of-Way (RoW) Plan Maps of scale 1:2500 showing the transmission line corridor superimposed over cadastral parcels, including parcel boundaries, Kitta numbers, former and NEW VDC/Municipality boundaries, land classification, new physical development and affected parcel areas.
- The Consultant shall prepare Tower Pad Cadastral Maps showing tower foundation footprints, tower pad boundaries, and affected parcel extents based on final approved tower locations and angle of deflection.
- All cadastral maps shall be prepared in formats acceptable to the concerned DLSOs, Survey Department, and RPGCL.

Step 4: Coordination and Verification with Government Offices

- The Consultant shall coordinate with respective DLSOs, DLROs, local governments, Survey Department, and other relevant authorities during preparation, verification, and approval of cadastral maps and parcel databases.
- The Consultant shall undertake regular follow-up with concerned government offices and make all necessary arrangements required to obtain technical verification, comments, endorsements, certifications, and official approvals in the presence of Client representatives whenever possible.
- The Consultant shall submit prepared cadastral maps and parcel databases to client for review, verification and endorsement. Both hard-copy and editable soft-copy submissions shall be made.

Step 5: Field Verification and Joint Site Visit

- The Consultant shall conduct joint field verification and site visits involving representatives from DLSOs, DLROs, Local Governments (Municipality/Rural Municipality), concerned landowners, RPGCL representatives, and other relevant stakeholders.
- The Consultant shall verify in the field the transmission line RoW, tower pad locations, parcel boundaries, ownership information, affected land areas, and any discrepancies identified during cadastral mapping.
- The Consultant shall arrange, organize, facilitate, and document all field verification activities in close coordination with the Client and concerned authorities.

Step 6: Cadastral Reporting and Deliverables

- Finalize and submit the following cadastral deliverables to RPGCL (in both hard copy and digital editable formats):
- Approved RoW (25 m on each side) Plan Maps and Tower Pad Maps containing complete parcel boundaries, ownership information, spatial data, and all related attribute information in editable GIS/CAD formats and hard-copy maps.
- Verified Land Parcel Database containing parcel information, affected areas, ownership details, land classification, compensation-related information, and other required parcel attributes in Excel, GIS Shapefile/Geodatabase, and AutoCAD formats, including all source files.
- Land Ownership Verification Report based on available Shresta records, field books, plot registers, ownership information, and verification records obtained from concerned government official approved details, and certified documents. Approved RoW Plan Map and Tower Pad Map with full attribute information (hard copy and digital).
- Joint Site Verification Report containing field verification records, field photographs, observations, meeting minutes, and signatures of participating stakeholders.
- Complete GIS Database MXD compatible format and GIS map package (Cadastral Mapping Files), Coordinate Data, Survey Records, Spatial Databases, and all supporting technical documentation prepared under this assignment.

While official correspondence with government agencies shall be facilitated by the Client, the Consultant shall remain fully responsible for all technical follow-up, coordination, verification activities, and timely completion of all cadastral mapping and approval-related activities under this assignment.

4. DETAILED TASKS OF THE CONSULTING SERVICES

The Consultant shall be responsible for carrying out all tasks necessary for the preparation, submission, and approval of the IEE Study and Cadastral Mapping Report. The detailed tasks include, but are not limited to, the following:

4.1 Preparation of IEE

- Prepare and conduct the IEE study in full compliance with EPA 2076, EPR 2077, and any other relevant regulations in force during the contract period.

- Prepare and submit the ToR for IEE as per EPA 2076 and EPR 2077 to the concerned approval authority prior to commencement of the IEE study.

4.2 Tree Enumeration

- Carry out total tree enumeration within the RoW and tower pad areas, including measurement of DBH, height, and estimation of volume per tree.
- Obtain supervision records from the concerned Divisional Forest Office (DFO) and include them in the IEE Report.

4.3 Impact Assessment and Mitigation

- Identify and assess potential environmental and social impacts of the project during pre-construction, construction, and operation phases.
- Propose appropriate and site-specific mitigation measures; develop a comprehensive ESMP and EMP with clear institutional responsibilities, timelines, and cost estimates.

4.4 IEE Report Preparation and Approval

- Prepare and submit the Draft IEE Report, including the EMP/ESMP, in the format prescribed under Schedule 11 (or the latest applicable schedule) of EPR 2077.
- Collect recommendation letters from affected local levels, CFUGs, and relevant stakeholders as per Schedule 14 of EPR 2077.
- Present the Draft IEE Report to DoED (and any other concerned approving agency) for technical review.
- Incorporate comments and suggestions from DoED thematic experts and resubmit the revised IEE Report to MoEWRI via DoED for final approval.
- Provide technical support and follow-up until the IEE Report receives formal approval from the concerned ministry.

4.5 Institutional Coordination and Approvals

- Undertake all tasks related to coordination, follow-up, and data acquisition from concerned agencies, including: DoLMA, DoS, DHM, DNPWC, DFOs, Local Governments, and other relevant institutions.
- Publish public notices and conduct public hearings as required under EPA 2076 and EPR 2077.
- Prepare and deliver presentations to DoED and MoEWRI to facilitate the IEE approval process.

4.6 Consultant Support

- Provide continuous technical support to RPGCL in responding to queries raised by responsible authorities until the IEE Report is formally approved.

4.7 Documentation and Handover

- Submit all deliverables in both hard copy (printed and bound) and editable digital formats (Word, Excel, PDF, shapefile, KML/KMZ, AutoCAD, etc.).
- Provide complete records of all events, activities, consultations, and institutional correspondence conducted during the assignment.

4.8 Progress Reporting

- Submit monthly progress reports to RPGCL within the first seven (7) calendar days of each month, summarizing activities completed, progress achieved, issues encountered, and planned activities for the following month.
- Attend monthly progress meetings with the RPGCL Environment Section and Project Manager at a schedule agreed with RPGCL.

5. METHODOLOGY

The Consultant shall adopt a systematic, participatory, and legally compliant methodology for the preparation of the IEE Study and Cadastral Mapping. The methodology shall combine desk studies, field surveys, stakeholder consultations, and institutional coordination, ensuring that all environmental and social aspects are properly assessed, documented, and reported.

5.1 Literature Review and Desk Study

- Collect and review relevant secondary data from District Profiles, CBS, GoN institutions, DFOs, Survey Department, and other sources.
- Utilize available Topographic maps (1:25,000 scale), cadastral maps, land use maps, aerial photographs, satellite imagery, and published and unpublished reports.
- Review all applicable environmental and sectoral standards, acts, regulations, guidelines, strategies, and international conventions as detailed in Section 2 of this ToR, and any additional instruments identified during the study.

5.2 Field Surveys and Data Collection

- Conduct reconnaissance and detailed field surveys of the TL corridor, tower pad areas, and RoW.

- Collect baseline data on physical, biological, and socio-economic environments using appropriate methods: sample surveys, transect walks, tree enumeration, camera trapping, vantage point counts, focus group discussions, key informant interviews, and direct field observations.
- Verify secondary data through ground-truthing and cross-validation with local sources.

5.3 Terms of Reference (ToR) Preparation for IEE

- Prepare the ToR for IEE as required under EPA 2076 and EPR 2077.
- Ensure the ToR identifies all major environmental and social issues, specifies study activities, outlines the methodology, sets clear timelines, and allocates roles and responsibilities of experts and institutions.
- Submit the ToR to the concerned approving authority (MoEWRI via DoED) for formal approval prior to commencement of the IEE Study.

5.4 Public Notice and Stakeholder Consultation

- Publish public notices in national daily newspapers in accordance with EPA 2076 and EPR 2077.
- Organise public consultations, hearings, and stakeholder meetings in all affected municipalities and rural municipalities.
- Collect consent/recommendation letters from local governments and relevant stakeholders as per Schedule 14 of EPR 2077.
- Document all consultation events, feedback received, and responses provided for inclusion in the IEE Report.

5.5 IEE Study Components

- **Baseline Study:** Collect and analyse physical, biological, and socio-economic environmental data for the project-affected area.
- **Impact Prediction and Assessment:** Predict and assess potential impacts on land, forests, biodiversity, hydrology, air quality, noise, socio-economic conditions, and cultural/heritage sites during pre-construction, construction, and operation phases.
- **Mitigation Measures:** Propose impact-specific mitigation measures to reduce negative impacts and enhance positive ones.
- **ESMP / EMP:** Develop project-specific and impact-specific Environmental and Social Management Plans with clear responsibilities, coordination requirements, cost

estimates, and monitoring indicators, methods, frequencies, and institutional arrangements.

- **Cadastral Integration:** Use verified cadastral data to support socio-economic impact prediction related to land ownership and affected parcels.

5.6 IEE Report Preparation and Submission

- Prepare the IEE Report in accordance with EPR 2077.
- Present draft findings to RPGCL and DoED for technical review and approval.
- Incorporate all feedback from RPGCL, DoED, and stakeholders.
- Submit the final IEE Report to MoEWRI via DoED for formal approval.
- Provide necessary clarifications and follow-up support until the IEE Report is formally approved.

6. MILESTONES

- **Milestone 1** – Inception: Delivery of Inception Report
- **Milestone 2** - ToR Preparation Phase: Approved ToR for IEE (submitted to MoEWRI via DoED).
- **Milestone 3** - Baseline Study and Cadastral Mapping Phase: Delivery of Baseline Survey Report (physical, biological, and socio-economic environments) and Cadastral report with Landowner detail.
- **Milestone 4** - IEE Preparation, Public hearing, and Approval Phase: Delivery of Approved IEE Report from MoEWRI (includes public hearing records, recommendation letters).
- **Milestone 5** - Document Handover Phase: Complete handover of all approved hard copy and soft copy documents to RPGCL.

7. TIME FRAME

The entire consulting services shall be completed within 54 weeks from the Contract Effective Date (T). The detailed breakdown of activities and tentative durations for achieving each milestone is presented in the table below.

Phase	Milestone	Key Activities	Duration	Remarks
Phase I: Inception	Milestone 1	• Submission of Inception Report	T+2 weeks	
Phase I:	Milestone	• Preparation and	T + 15	Approval of ToR

ToR Approval	2	submission of Draft ToR for IEE to MoEWRI via DoED • Incorporation of comments and submission of Final Approved ToR	Weeks	by MoEWRI via DoED
Phase III: Baseline & Cadastral	Milestone 3	• Baseline surveys: Physical, Biological, and Socio-economic environments • Total tree enumeration within RoW and tower pad areas • Submission of Baseline Survey Report to RPGCL • Cadastral data collection, survey, and field verification • Submission of Cadastral Mapping Report to RPGCL	T + 32 Weeks	
Phase IV: IEE Preparation & Approval	Milestone 4	• Preparation of Draft IEE Report including EMP/ESMP • Conduct public hearings in each affected local level • Collection of recommendation letters from local levels and stakeholders (Schedule 14, EPR 2077) • Submission of Draft IEE incorporating public hearing feedback to DoED via RPGCL • Incorporation of DoED comments; submission of Final IEE to MoEWRI via DoED • Receipt of approved IEE Report from MoEWRI and submission to RPGCL	T + 48 Weeks	Mandatory: TL, Environmentalist, Sociologist at public hearings and DoED presentations
Phase V: Handover	Milestone 5	• Submission of all approved hard copy and soft copy documents to RPGCL • Final electronic handover (Word, PDF, GIS, CAD, KML formats)	T + 54 Weeks	

Note: T = Contract Effective Date. The presence of the Team Leader, Environmentalist, and Sociologist is mandatory at all public hearings and during presentations at DoED/MoEWRI. All tasks related to the IEE study, institutional coordination, and obtaining approval from the

concerned ministry are the sole responsibility of the Consultant.

Coordination of Service: The Consultant shall perform all services in close coordination with the concerned Project Manager for the Sitalpati–Dhungesanghu Transmission Line Project and the Environment Section of RPGCL. RPGCL shall designate an Environmentalist or equivalent officer as the primary point of coordination.

8. EXPERT QUALIFICATIONS AND RESPONSIBILITIES

The Project is located in Koshi Province. As per Schedule 13 of EPR 2077, or the minimum requirements prescribed by the Ministry of Forests and Environment (MoFE) in force during the study period, the Consultant shall ensure the involvement of appropriately qualified experts. All key experts shall provide Curriculum Vitae (CVs) with signed Declarations, to be attached as annexures to the IEE Report. The estimated personnel requirements and minimum qualifications for each expert position are as follows:

8.1 Man-Month Requirement

Main Month Requirement				
S.N	Position	Input		
		Office	Field	Total
Technical Key Expert				
a	Environmentalist (Team Leader)	1.5	1.5	3
b	Electrical Engineer	0.5	0.5	1
c	Forest Expert	1.5	1.5	3
d	Socio-economist/Sociologist	1	1.5	2.5
e	Geologist	0.5	0.5	1
f	GIS Expert	2	1.5	3.5
Non-Key Staff				
g	Surveyor		2.5	2.5
h	Forest Enumerator		2.5	2.5
i	Support Staff		2.5	2.5
Total		7	14.5	21.5

8.2 Expert Qualifications and Key Responsibilities

S.N.	Expert	Academic Qualification	Experience	Key Responsibilities
Key Expert				
1	Environmentalism (Team Leader)	Master's Degree in Environmental Science / Environmental Engineering or related field	9+ years; at least 3 EIA/IEE of infrastructure Project with at least 1 IEE/EIA of	Lead and manage entire team; liaise with RPGCL; prepare project plan and timeline; ensure IEE covers all environmental and social aspects, Conduct Public hearing; develop

			132 kV or higher TL	ESMP/EMP; review and approve final IEE report; Conduct baseline environmental surveys; identify sensitive areas; assess impacts; ensure compliance with EPA 2076 and EPR 2077; respond to approval-agency comments mandatory presence at monthly meetings.
2	Electrical Engineer	Master in Electrical engineering or related discipline	5+ years; at least 3 EIA/IEE of infrastructure Project with at least 1 IEE/EIA of 132 kV or higher TL	Support team leader on identifying the environmental and social impact of transmission project, providing technical inputs on potential environmental and health concerns related to power lines, such as Electromagnetic Fields (EMF), audible noise, radio interference, and safety clearances, develop environment and social management plan for the impact during construction and operation of TL Project.
3	Sociologist / Socio-economist	Master Degree in Sociology, Social Science, Anthropology or related discipline	5+ years; 3+ IEE/EIA of infrastructure; at least 1 IEE/EIA of 132 kV or higher TL	Social baseline data collection; identify and profile PAFs; prepare land acquisition impact assessment; prepare entitlement matrix; conduct stakeholder consultations focusing on vulnerable groups, indigenous peoples, women, and children; recommend livelihood restoration measures.
4	Forest Expert / Botanist	Bachelor's Degree in Forestry/ Botanical Science or related discipline	5+ years; 3+ IEE/EIA of infrastructure; at least 1 IEE/EIA of 132 kV or higher TL	Lead total tree enumeration within RoW and tower pads; conduct flora and fauna surveys (transect, camera trap, vantage point); prepare species database; prepare Forest Clearance Plan; coordinate with Divisional Forest Offices.
5	Geologist	Bachelor in Geology / Geo-technical Engineering or	5+ years; 3+ IEE/EIA of infrastructure; at least 1	Assess geological conditions, geo-hazards, GLOF risks, landslides, erosion, and fault lines

		related discipline	IEE/EIA of 132 kV or higher TL	along the TL corridor; provide geological inputs for each tower location; ground-truth tower locations.
6	GIS Expert	Bachelor's Degree in Geomatics/ Remote Sensing or related discipline	At least 5 years; 3+ IEE/EIA of infrastructure; at least 1 IEE/EIA of 132 kV or higher TL	Conduct GIS and spatial analysis; prepare hazard maps; perform land parceling and cadastral overlay mapping; prepare all spatial datasets in GIS, CAD, and required formats; support cadastral report preparation.
Non – Key staff				
1	Surveyor	Diploma in Survey/Geomatics		Support GIS Expert and perform the task defined by the expert.
2	Forest Enumerator	Diploma in Forestry		Tree enumeration and perform other task defined by as per the guidance of Key Expert
2	Support Staff	Higher Secondary		Collect data and perform other task defined by as per the guidance of Key Expert

All experts listed above are considered Key Experts. Their CVs and signed Declarations must be submitted with the technical proposal and attached to the final IEE Report as annexures. The Consultant may engage additional support staff (surveyors, enumerators, field assistants) as required to fulfil the scope of services.

9. REPORTS AND DELIVERABLES

The Consultant shall prepare and submit the following reports and deliverables to the concerned authorities and to RPGCL. All reports shall be submitted in both printed/bound hard copy and editable digital formats (Word, Excel, PDF, GIS, CAD, KML/KMZ as applicable).

S.N.	Report / Deliverable	Deadline	No. of Copies	Remarks
1	Inception Report	T + 2 Weeks	2	Submitted to RPGCL (Hard copy & E-copy)
2	Draft ToR for IEE	T + 12 Weeks	10	Submitted to DoED through RPGCL (Hard copy & E-copy)

3	Approved ToR for IEE	T + 15 Weeks	3	Submitted to RPGCL (Hard copy & E-copy)
4	Baseline Survey Report	T + 26 Weeks	2	Submitted to RPGCL (Hard copy & E-copy)
5	Cadastral Mapping Report	T + 32 Weeks	2	Submitted to RPGCL (Hard copy & E-copy)
6	Draft IEE Report	T + 40 Weeks	10	Submitted to DoED via RPGCL (Hard copy & E-copy)
7	Approved IEE Report	T + 48 Weeks	7	Submitted to RPGCL (Hard copy & E-copy)
8	Final Soft Copies (Word, PDF, GIS, KML, EXCEL, CAD)	T + 54 Weeks		Electronic handover to RPGCL

*** T = Contract Effective Date**

All digital deliverables shall be submitted on a USB drive or via secure file transfer, in editable formats. GIS data shall be submitted as shapefiles with associated metadata. Survey field data, photographs, and measurement records shall be submitted as organized digital annexures.

10. PAYMENT SCHEDULE

Payment to the Consulting Firm shall be made upon the successful completion and acceptance of the deliverables associated with each milestone, as specified below:

Milestone	Time Frame	Payment (%)	Trigger / Condition
M1	T + 2 Weeks	10%	Upon submission of Inception Report and acceptance from Client
M2	T + 15 Weeks	30%	Upon submission of Approved ToR.
M3	T + 32 Weeks	30%	Upon submission and client acceptance of the Baseline Survey Report and Cadastral Mapping Report with landowner details.
M4	T + 48 Weeks	15%	Upon submission and client acceptance of the Approved IEE Report from MoEWRI via DoED.
M5	T + 54 Weeks	15%	Upon submission and client acceptance of all final approved reports including complete soft

			copies as specified in Section 10.
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*** T = Contract Effective Date**

All payments are subject to RPGCL's written acceptance of the relevant deliverables. The Client reserves the right to withhold payment if deliverables do not meet the quality standards or requirements specified in this ToR.

11. CLIENT SUPPORT

RPGCL (the Client) shall provide the following support to the Consultant to facilitate the execution of the assignment:

- All available survey data related to the TL route alignment, layout on topographic maps clearly showing tower locations, Right of Way (RoW) widths, and tower foundation details.
- Relevant project documents, feasibility studies, preliminary design reports, and technical data as available.
- Coordination letters and introductory support to relevant government authorities and stakeholders as and when required.
- Designated RPGCL contact personnel (Environmentalist or Project Manager) for day-to-day coordination throughout the assignment.

The Client shall not be responsible for costs incurred by the Consultant in obtaining data or approvals from third-party government offices unless specifically agreed in writing.

12. TAXES AND DUTIES

All applicable taxes, duties, levies, and charges shall be in accordance with the prevailing laws of the Government of Nepal, including but not limited to the Income Tax Act, 2058 and Value Added Tax Act, 2052, and any amendments thereto in force during the contract period. The Consulting Firm shall be solely responsible for compliance with all applicable tax obligations.

13. CONSULTANT'S RESPONSIBILITY

The Consultant shall bear full professional and legal responsibility for the quality, accuracy, and completeness of all data collected, analyses conducted, and reports submitted under this assignment. Specific responsibilities include:

- Ensuring all field data, survey results, and measurements are accurate, verifiable, and properly documented.
- Ensuring strict compliance with all applicable national laws, regulations, guidelines, and international conventions referenced in Section 2 of this ToR.
- The Consultant shall be responsible for any discrepancy or variation in tree enumeration data identified within 1 years of IEE completion. In the event of such discrepancy, the Consultant shall bear the cost of re-enumeration and correction without additional charges to RPGCL.
- Maintaining the confidentiality of all project-related data and documents, and not disclosing them to any third party without prior written consent from RPGCL.

- The Consultant shall promptly notify RPGCL of any material issues, risks, or impediments encountered during the assignment that may affect the schedule, quality, or cost of the services.

14. DISPUTE RESOLUTION

Any dispute arising out of or in connection with this Terms of Reference and the resulting consulting agreement shall, in the first instance, be resolved through mutual negotiation between the Consultant and RPGCL. If a dispute cannot be resolved through negotiation within thirty (30) calendar days, it shall be referred to arbitration in accordance with the laws of Nepal. The place of arbitration shall be Kathmandu, Nepal, and proceedings shall be conducted in the Nepali or English language as mutually agreed.

C. Evaluation of Consultant's EOI Application

Consultant's EOI application which meets the eligibility criteria will be ranked on the basis of the Ranking Criteria.

<u>i) Eligibility & Completeness Test</u>	<u>Compliance</u>
Copy of Registration of the company/firm	
VAT/PAN Registration	
Tax Clearance/Tax Return Submission/Letter of Time Extension for Tax Return Submission 2081/82 FY	
In case of a natural person or firm/institution/company which is already declared blacklisted and ineligible by the GoN, any other new or existing firm/institution/company owned partially or fully by such Natural person or Owner or Board of director of blacklisted firm/institution/company; shall not be eligible consultant.	
EOI Form 1: Letter of Application	
EOI Form 2: Applicant's Information Form	
EOI Form 3: Experience (3(A) and 3(B))	
EOI Form 4: Capacity	
EOI Form 5: Qualification of Key Experts	

ii) EOI Evaluation Criteria

A. Qualification

<u>S.N.</u>	<u>Criteria</u>	<u>Minimum Requirement</u>
1	Qualification of Environmentalist (Team Leader)	Master's Degree in Environmental Science / Environmental Engineering or related discipline
	General Experience of Environmentalist (Team Leader)	At least 9 years of experience in related field with at least 3 EIA/IEE of infrastructure Project
	Specific Experience of Environmentalist (Team Leader)	IEE/EIA of at least one 132 kV or higher voltage transmission line
2	Qualification of Electrical Engineer	Master in Electrical engineering or related discipline
	General Experience of Electrical Engineer	At least 5 years of experience in related field with at least 3 EIA/IEE of infrastructure Project
	Specific Experience of Electrical Engineer	IEE/EIA of at least one 132 kV or higher voltage transmission line
3	Qualification of Sociologist/Socio-economist	Master Degree in Sociology, Social Science, or Anthropology or related discipline
	General Experience of Sociologist/Socio-economist	At least 5 years of experience in related field with at least 3 EIA/IEE of infrastructure Project
	Specific Experience of Sociologist/Socio-economist	IEE/EIA of at least one 132 kV or higher voltage transmission line
4	Qualification of Forest Expert/Botanist	Bachelor's Degree in Forestry or Botanical Science or related discipline

	General Experience of Forest Expert/Botanist	At least 5 years of experience in related field with at least 3 EIA/IEE of infrastructure Project
	Specific Experience of Forest Expert/Botanist	IEE/EIA of at least one 132 kV or higher voltage transmission line
5	Qualification of Geologist	Bachelor in Geology / Geo-technical Engineering or related discipline
	General Experience of Geologist	At least 5 years of experience in related field with at least 3 EIA/IEE of infrastructure Project
	Specific Experience of Geologist	IEE/EIA of at least one 132 kV or higher voltage transmission line
6	Qualification of GIS Expert	Bachelor's Degree in Geomatics / Remote Sensing or related discipline
	General Experience of GIS Expert	At least 5 years of experience in related field with at least 3 EIA/IEE of infrastructure Project
	Specific Experience of GIS Expert	IEE/EIA of at least one 132 kV or higher voltage transmission line

Score: 50

B. Experience

S. N	Criteria	Minimum requirement
1	General Experience of Consulting Firm	Experience of IEE/EIA or RIEE of at least 5 Infrastructure Projects with 7 years of experience
2	Specific Experience of Consulting Firm	Experience of IEE/EIA or RIEE at least two 132 kV (or above) transmission Line within last seven years.

Score: 40

C. Capacity

S. N	Criteria	Minimum requirement
1	Financial Capacity: Average Annual Turnover of best 3 years of last seven fiscal years	NPR 55,64,000

Score: 10

Note: In Case, a corruption case is being filed to Court against the Natural Person or Board of Director of the firm/institution /company or any partner of JV, such Natural Person or Board of Director of the firm/institution /company or any partner of JV such firm's or JV EoI shall be excluded from the evaluation, if public entity receives instruction from Government of Nepal.

D. EOI Forms & Formats

Form 1. Letter of Application

Form 2. Applicant's information

Form 3. Experience (*General, Specific and Geographical*)

Form 4. Capacity

Form 5. Qualification of Key Experts

1. Letter of Application

(Letterhead paper of the Applicant or partner responsible for a joint venture, including full postal address, telephone no., fax and email address)

Date:

To,

Full Name of Client: _____

Full Address of Client: _____

Telephone No.: _____

Fax No.: _____

Email Address: _____

Sir/Madam,

1. Being duly authorized to represent and act on behalf of (hereinafter "the Applicant"), and having reviewed and fully understood all the short-listing information provided, the undersigned hereby apply to be short-listed by **[Insert name of Client]** as Consultant for **[Insert brief description of Work/Services]**.
2. Attached to this letter are photocopies of original documents defining:
 - a) the Applicant's legal status;
 - b) the principal place of business;
3. **[Insert name of Client]** and its authorized representatives are hereby authorized to verify the statements, documents, and information submitted in connection with this application. This Letter of Application will also serve as authorization to any individual or authorized representative of any institution referred to in the supporting information, to provide such information deemed necessary and requested by yourselves to verify statements and information provided in this application, or with regard to the resources, experience, and competence of the Applicant.
4. **[Insert name of Client]** and its authorized representatives are authorized to contact any of the signatories to this letter for any further information.¹
5. All further communication concerning this Application should be addressed to the following person,

[Person]

[Company]

[Address]

[Phone, Fax, Email]

¹ Applications by joint ventures should provide on a separate sheet, relevant information for each party to the Application.

6. We declare that, we have no conflict of interest in the proposed procurement proceedings and we have not been punished for an offense relating to the concerned profession or business and our Company/firm has not been declared ineligible.
7. We further confirm that, if any of our experts is engaged to prepare the TOR for any ensuing assignment resulting from our work product under this assignment, our firm, JV member or sub-consultant, and the expert(s) will be disqualified from short-listing and participation in the assignment.
8. The undersigned declares that the statements made and the information provided in the duly completed application are complete, true and correct in every detail.

Signed :

Name :

For and on behalf of (name of Applicant or partner of a joint venture):

2. Applicant's Information Form

(In case of joint venture of two or more firms to be filled separately for each constituent member)

1. Name of Firm/Company:
2. Type of Constitution (*Partnership/ Pvt. Ltd/Public Ltd/ Public Sector/ NGO*)
3. Date of Registration / Commencement of Business (*Please specify*):
4. Country of Registration:
5. Registered Office/Place of Business:
6. Telephone No; Fax No; E-Mail Address
7. Name of Authorized Contact Person / Designation/ Address/Telephone:
8. Name of Authorized Local Agent /Address/Telephone:
9. Consultant's Organization:
10. Total number of staff:
11. Number of regular professional staff:

(Provide Company Profile with description of the background and organization of the Consultant and, if applicable, for each joint venture partner for this assignment.)

3. Experience

3(A). General Work Experience

(Details of assignments undertaken. Each consultant or member of a JV must fill in this form.)

S. N.	Name of assignment	Location	Value of Contract	Year Completed	Client	Description of work carried out
1.						
2.						
3.						
4.						
5.						
6.						
7.						

3(B). Specific Experience

Details of similar assignments undertaken in the previous seven years

(In case of joint venture of two or more firms to be filled separately for each constituent member)

Assignment name:	Approx. value of the contract (in current NRs; US\$ or Euro) ² :
Country: Location within country:	Duration of assignment (months):
Name of Client:	Total No. of person-months of the assignment:
Address:	Approx. value of the services provided by your firm under the contract (in current NRs; US\$ or Euro):
Start date (month/year): Completion date (month/year):	No. of professional person-months provided by the joint venture partners or the Sub-Consultants:
Name of joint venture partner or sub-Consultants, if any:	Narrative description of Project:
Description of actual services provided in the assignment: Note: Provide highlight on similar services provided by the consultant as required by the EOI assignment.	

Firm's Name: _____

² Consultant should state value in the currency as mentioned in the contract

4. Capacity

4(A). Financial Capacity

(In case of joint venture of two or more firms to be filled separately for each constituent member)

Annual Turnover	
Year	Amount Currency

- **Average Annual Turnover of Best of 3 Fiscal Year
Of Last 7 Fiscal Years**

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(Note: Supporting documents for Average Turnover should be submitted for the above.)

Key Experts (Include details of Key Experts only)

(In case of joint venture of two or more firms to be filled separately for each constituent member)

SN	Name	Position	Highest Qualification	Work Experience (in year)	Specific Work Experience (in year)	Nationality
1						
2						
3						
4						
5						

(Please insert more rows as necessary)