EXPRESSION OF INTEREST (EOI)

Title of Consulting Service: NEC/EOI/NBLTL/080/81-01

Method of Consulting Service: National

Project Name: LiDAR Survey of 400 kV transmission line from Butwal to Lamahi EOI: NEC/EOI /NBLTL/080/81-01 Office Name: NEA Engineering Company Ltd. Office Address: 2nd Floor, Trade Tower, Thapathali. Kathmandu

Funding agency: Internal Resources





Expression of Interest (EOI)

LiDAR Survey of 400 kV transmission line from Butwal to Lamahi

National Consulting Service

Project Name EOI	: LiDAR Survey of 400 kV transmission line from Butwal to Lamahi : NEC/EOI/NBLTL/080/81-01.
Office Name	: NEA Engineering Company Limited
Office Address	: Trade Tower, Thapathali, Kathmandu
Issued on	: 29 th August 2023







Abbreviations

CV	-	Curriculum Vitae
DO	-	Development Partner
EA	-	Executive Agency
EOI	-	Expression of Interest
GON	-	Government of Nepal
JV	-	Joint Venture
NEA	-	Nepal Electricity Authority
NEC	-	NEA Engineering Company Limited
PAN	-	Permanent Account Number
PPA	-	Public Procurement Act
PPR	-	Public Procurement Regulation
QCBS	-	Quality and Cost Based Selection
TOR	-	Terms of Reference
VAT	-	Value Added Tax





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A. Request for Expression of Interest

NEA Engineering Company Limited

Date: 29th August 2023

Name of Project: LiDAR Survey of 400 kV Transmission Line from Butwal to Lamahi.

- NEA Engineering Company Limited has received fund from Nepal Electricity Authority and intends to apply a portion of this *fund* to eligible payments under the Contract for which this Expression of Interest is invited for National Consulting Service.
- 2. The **NEA Engineering Company** now invites Expression of Interest (EOI) from eligible consulting firms ("Consultant") to provide the following consulting services:

LiDAR Survey of 400 kV transmission line from Butwal to Lamahi.

- Interested eligible consultants may obtain further information and EOI document free of cost at the address NEA Engineering Company Limited, Trade Tower, Thapathali, Kathmandu during office hours on or before 12th September 2023, 17:00 hrs local time or visit e-GP system <u>www.bolpatra.gov.np/egp</u> or visit the client's website www.neaec.com.np.
- 4. Consultants may associate with other consultants to enhance their qualifications.
- Expressions of interest shall be delivered online through e-GP system <u>www.bolpatra.gov.np/eqp</u> or *manually to the address* NEA Engineering Company Limited, Trade Tower, Thapathali, Kathmandu on or before 13th September 2023, 12:00 hrs local time.
- 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 30%** *and Capacity 20%* 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 70.
- 9. The Employer reserves the right to accept or reject, wholly or partly any or all the EOI without assigning any reason whatsoever.





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 5 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 firms*.
- 4. The assignment has been scheduled for a period of **3 months.** The expected date of commencement of the assignment is **15th October 2023.**
- 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) & 3(C))
 - 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 in sealed envelope and should be clearly marked as "EOI Application for Short-listing for the *LiDAR Survey of 400 kV transmission line from Butwal to Lamahi.* The Envelope should also clearly indicate the *name and address of the Applicant*.
 - 9. 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





C. Objective of Consultancy Services or Brief TOR





TERMS OF REFERENCE

1. Introduction and Background

The proposed 400 kV Transmission Line from Butwal to Lamahi is of 160 km length which passes through Rupandehi, Kapilvastu and Dang District of Lumbini Province, Nepal.

S.N.	Name of Substation	Latitude	Longitude
1	New Butwal	27°36'31.00"N	83°41'52.36"E
2	Motipur	27°41'30.93"N	83° 7'9.96"E
3	New Lamahi	27°54'12.23"N	82°21'3.42"E

The proposed substation locations of the project have been tabulated below: -



Figure 1-1: Location of Transmission Line Alignment in Google Earth Image

2. Objectives of The Assignment

The main objective of this assignment is to prepare a very high-resolution aerial orthophoto, accurate 3D terrain surface model and sufficient number of point cloud data required for tree counting for 400 kV Transmission line from Butwal to Lamahi of total length160 km.





Specific objectives of the assignment are:

- i. Official Procedures for permission of LiDAR Survey from Concerned Authorities.
- ii. GCP establishment with DGPS surveying.
- iii. LiDAR data acquisition from Aerial platform
- iv. Aerial photography
- v. Orthophoto processing of aerial photo to produce very accurate aerial-orthophoto of GSD 15 cm or higher.
- vi. and orthophoto of given area with GSD 15 cm.
- vii. LiDAR Data Processing and LiDAR Data classification showing ground and non-ground data with different classification codes.
- viii. Production of very accurate classified point cloud along with Digital Surface Model/Digital Terrain Modem (DSM/DTM) of 0.25m ground resolution or higher.
- ix. Prepare a very larger scale (at 1:1000 scale) Topographic Base Map and GIS database of the project area.
- x. Tree Counting of the trees in right of way (50 m left and 50 m right of the alignment).

3. Scope of Work

The scope of work to achieve aforementioned objectives are as under:

a) To undertake aerial photography and LiDAR data acquisition mission, following works shall be undertaken:

- Study and review of existing maps, details of the proposed project area and develop the flight mission and data acquisition plan in discussion with the project and the relevant authorities. The project will facilitate and coordinate with relevant authorities.
- Acquire necessary permit/permission for installing aerial camera/LiDAR sensor pod in the helicopter platform and for undertaking the flight mission(s) from relevant authorities viz. Civil Aviation Authority of Nepal, Department of Survey, Ministry of Defense/Nepal Army and Ministry of Home Affairs. The project will facilitate and coordinate with relevant authorities to acquire the flying and data acquisition permits.
- Test and calibrate the aerial photography camera and LiDAR sensor as required for accurate data acquisition.
- Establish ground control GNSS Base Stations, sufficiently covering the aerial data acquisition area with reference to the flight paths within 20 km distance range. The GNSS base stations shall be established on known/identifiable benchmarks on the ground by the ground survey team and shall be connected to the National Control Network established by the Survey Dept or should be based on Universal Transverse Mercator (UTM) 45 N. The GNSS data shall be continuously recorded at appropriate time intervals throughout the LiDAR survey mission.
- Undertake flight mission(s) to acquire aerial photo and LiDAR point data following flight plan, weather conditions and with due consideration of necessary safety and security protocols.
- Establish LiDAR validation ground check points along the LiDAR flight lines to test and assess the vertical accuracy of the LiDAR data. The validation check points will include DGPS RTK points established on bare ground surface to calibrate with LiDAR first pulse data. These check points shall be observed in and around the established GNNS base stations points established.





- b) To undertake the post-processing of LiDAR data to produce accurate classified point cloud, DSM and DTM, following works shall be undertaken:
 - Process the LiDAR raw data to generate georeferenced dense point cloud and classify/segment the point cloud adopting appropriate QA/QC steps using appropriate software.
 - Process the classified point clouds to generate Digital Surface Model (DSM) and bare earth Digital Terrain Model (DTM) at 0.25m or higher ground resolution.
 - Assess the accuracy of the generated DSM/DTM using the ground check points and validate the result.
 - Prepare accuracy assessment report with necessary details and technical parameters.
- c) To undertake the post-processing of aerial photographs to produce aerial-orthophoto, following works shall be undertaken:
 - Orthorectify the aerial photographs using the GCPs established and the DTM generated using the LiDAR data. The processing shall include appropriate aerial-triangulation method to generate highly accurate ortho-photos using appropriate digital photogrammetric software.
 - Process the ortho-rectified aerial photos to generate seamless ortho-photo mosaics. The processing may include colour balancing, radiometric corrections and other image enhancement techniques to generate seamless natural colour (RGB) image mosaic.
 - Prepare accuracy assessment report with necessary details and technical parameters.

d) To undertake preparation of very large scale topographical base map, following tasks shall be undertaken:

- Vectorization (or semi-automatic extraction) of ground features including roads, buildings, other structures, hydrography (river/streams, other water bodies), land cover, escarpment, embankment, land use designated for specific purpose etc.
- Ground verification and updating of the base map including attribute data collection through ground survey/observation works.
- Generation of detailed contours at vertical intervals of 1 m from the LiDAR DTM generated.
- Development of standard large scale Topographic Base Map GIS database.
- Preparation of Ortho-Photo and Topographical Base Map at the scale 1:1000 following standard cartography practice.
- Prepare accuracy assessment report with necessary details and technical parameters.

4. Required Technical Details and Specifications of Image and LiDAR

S.N.	Description	Specification
1	Coverage	Coverage of the project area will be 200 m Right of Way (100 m left and 100 m right) of the proposed transmission line alignment which will be provided in digital shapefile and kml/kmz format.
2	LiDAR Point Density	At least 40 points/m2 or more but needs to increase due to terrain condition and other conditions to maintain desired accuracy. The point numbers must be sufficient enough to count trees based on LiDAR Point cloud data with accuracy in between 85% to 95% of actual tree numbers.
3	Ground sample distance (GSD) and focal length of lens	Medium frame camera should be used to capture digital image, and GSD at nadir should be 15 cm.





		The forward overlap (fore lap) between successive exposures in each run should be minimum 40 percentage but can increase to maintain desired accuracy. The lateral overlap (side lap) between adjacent strips
4	Photographic Coverage	should be minimum 40 percentage, but can increase to maintain desired accuracy
		In extreme terrain relief where the lateral overlap specified above is impossible to maintain in straight and parallel flight lines, the 'gaps' created by excessive relief shall be filled by short runs flown between the main runs and parallel to them.
5	Fundamental Spatial Accuracy	Fundamental vertical accuracy: Root Mean Square Error<= +/15 m. Or better on clear or vegetated ground
5	Fundamentai Spatiai Accuracy	Fundamental horizontal accuracy of ortho photo should be $\leq = +/10$ m.
6	Coordinate Datum's	WGS 84 and MUTM with Everest Spheroid Vertical: above mean sea level
7	Vertical Datum	Consultant should adjust elevation data to local height datum.
8	Ground Control System	The maximum distance between the Reference GPS station on the ground and airborne GPS units must not exceed 20 kilometers during the flight. All survey control data used or derived from this contract
		must be supplied to ensure independent Quality Assurance (QA) of the survey operations. It is therefore essential that all primary ground stations should be visible in photographs in accordance with the appropriate system.
		The primary ground control and check point surveys must be referenced to survey control marks with geodetic control points (in terms of coordinates and height) demarcated by survey department.
		Elevation data must be validated and corrected for systematic errors to ensure accuracy specifications are met. Documentation must describe how this has been achieved.
9	LiDAR Data acquisition details	Flight line overlap must be 40% or greater, as required to ensure there are no data gaps between the usable portions of the swaths. Collections in high relief terrain are expected to require greater overlap. Any data with gaps between the geometrically usable portions of the swaths will be rejected.
		LiDAR data over the Study Area must not be collected during any period where the extent of LiDAR ground returns in any part of the Study Area is likely to be significantly compromised e.g., flood, adverse weather etc.





		The spatial distribution of geometrically usable points is expected to be uniform and free from clustering. In order to ensure consistent data densities throughout the project area: Environmental conditions for data capture. a. Cloud and fog free between the airplane/helicopter and the ground.	
10	Intensity Image	0.25 m grid intensity image or better to preserve required accuracy.Mosaic generated using average laser intensity values from "first return" LiDAR points.Tiled delivery covering 10 km of the transmission line.	
11	Digital Surface Model (DSM)(orthometric)	1m or better grid Digital Surface Model (DSM) to preserve required accuracy.The DSM should be generated from the "first return" LiDAR mass point data. This will include ground and non-ground points such as vegetation and buildings.The DSM generation should employ a Point to TIN and TIN to Raster process with Natural Nearest Neighbour interpolation.	
12	Digital Terrain Model (DTM)(orthometric)	0.25 m or better grid bare earth Digital Elevation Model (DEM) to preserve required accuracy.The DEM should be generated from the LiDAR mass point data classified as "Ground" only, so that it defines the "bare earth" ground surface.The DEM generation should employ a Point to TIN and TIN to Raster process with Natural Nearest Neighbour interpolation.	
13	DGPS Data collection	 GPS data for all base station occupations in excess of 1 hours or more is to be provided in RINEX format (Receiver Independent Exchange Format). GPS observation log sheets which include the following details: a. Survey mark id b. Occupation time & date c. Antenna height measurements d. Instrument /antenna types & serial numbers. The GPS observation log sheets should be provided in pdf format or Excel spreadsheet if data is captured digitally. Where appropriate, some jurisdictions may find it useful to also request GPS data for any static primary control surveys. 	





		Description Card of the GPS locations must be provided.
		For each supplied data product, a complete metadata statement consistent with the ISO Standard.
14	Metadata	Metadata must be provided with every delivery including interim, partial and final deliveries.
		The job will not be signed off by the Contract Authority until the metadata is satisfactorily supplied.
		The fundamental vertical accuracy of the point cloud dataset must be determined with check points located only in open, relatively flat terrain, where there is a very high probability that the sensor will have detected the ground surface.
15	Spatial Accuracy Validation	The vertical accuracy of the point cloud dataset is to be tested using a TIN surface constructed from bare-earth LiDAR points compared against ground survey check points.
		Check points are to be surveyed independently of any LiDAR GPS operations.
		The number of check points (locations) is dependent on the extent of the survey. The following strategy should be used as a guide:
		a. Check points must be established to adequately cover the full extent of the survey area and be representative of the project area landscape.
		In the above circumstances a "compiled to meet" statement of horizontal accuracy at 95 percent confidence should be reported.
16	Data Processing	Consultants should process all the acquired data (LiDAR and Ortho photo) in Data Processing LAB (Software and Hardware) inside or outside Nepal.
17	Facilitation	NEA Engineering Company Ltd. will only facilitate in administrative procedure (inter and intra governmental organizations)
18	Tree Counting	Consultant should carry out tree counting of the transmission line alignment based on LiDAR Data, consultant should carryout both automated trees counting using software as well as manual counting using LiDAR Data.

5. Reporting and Deliverables

Reporting and deliverables for this assignment are as under:

SN	Report & Deliverables	Timeline
1	Delivery 1: Inception reportDetailed work plan and timetable	Within 15 days of commencement





	Detailed Flight Mission Plan	
2	 Delivery 2: LiDAR and Orthophoto Acquisition Report LiDAR and Orthophoto Acquisition Report with Raw Data and images including Flight Mission Report and GNSS Field Report 	Within 1.5 month of the assignment
3	 Delivery 3: LiDAR and Aerial Ortho-Photo Processing Report Classified LiDAR Point Cloud in ".las" format in appropriate data tiles sizes. DSM, DTM and Intensity image @ 0.25m ground resolution in GeoTIFF format in appropriate data tiles sizes. Aerial Ortho-Photo Images in RGB colour composition @ 10 cm ground resolution in GeoTIFF format in appropriate data tiles sizes. 	Within 2 months of the assignment
4	 Delivery 5: Draft Reports and Base Map and Data Draft Topographical Base Map and GIS data (Base Maps at 1:1000 scale printed in 3 copies) Accuracy assessment report 	Within 2.5 months of the assignment
5	 Delivery 5: Final Reports and Base Map and Data Final Topographical Base Map and GIS data (Base Maps at 1:1000 scale printed in 5 copies). Project report with methodology, outputs, data handling and usages recommendations and process. 	Within 3 months of the assignment

6. Time Schedule

The estimated time schedule for undertaking the works is of maximum 3 months, which will also include time for acquitting necessary permits and permission from relevant authorities.

7. Technology Transfer

The consultant must provide the training to at least 5 no. of staff of NEC regarding the flight planning, LiDAR Data Acquisition and LiDAR Data Processing.

8. Team Composition

The assignment shall be undertaken by a team of experts and support staff consisting of following recommended personnel.

SN	Personnel	Number
1	Team Leader	1
2	Senior Surveyor/Geomatics Engineer	1
3	GIS/RS Expert	1
4	GNSS Surveyor	2





D. 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.

i) Eligibility & Completeness Test	Compliance
Copy of Registration of the company/firm (Notarized)	
VAT/PAN Registration (Notarized)	
Tax Clearance/Tax Return Submission/Letter of	
Time Extension for Tax Return Submission	
FY: 2079/80 (Notarized)	
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	n Criteria Insert Minimum Requirement if Applicable		
		100%]	
A. Qualification			
Qualification of Key	20	40%	
Experts	Team Leader: One (5)		
	 Master's Degree in Geomatics engineering / Geoinformatics or GIS and Remote sensing or Geography with focus on GIS and Remote Sensing, Photogrammetric, LiDAR, Preferable Ph.D.in one of the above-mentioned subjects. 		
	Senior Surveyor/Geomatics Engineer: One (5)		
	 Having Completed At least Senior Surveying Course (or equivalent to senior surveying Course)/or B.E. in Geomatics Engineering/Survey engineering 		
	 LiDAR Data acquisition Expert: One (5) At least having BE in geomatics engineering preferable master's Degree with GIS/RS included and studied in course. 		
	 LiDAR Data Processing Expert: One (5) At least having BE in geomatics engineering preferable master's Degree with GIS/RS included and studied in course. 		





Experience of Key Experts	 20 Team Leader: one (5) At least minimum of 5 years of experience in related field. (2) 	
	 At least four (4) projects of relevant work experience in related field (Experience in LiDAR Survey of Transmission Line Survey/Hydropower projects). After completion of Basic Degree (3) 	
	 Senior Surveyor/Geomatics Engineer: One (5) At least minimum of 4 years of experience in related field. (2) 	
	 At least four (4) projects of relevant work experience in LiDAR Survey (Experience in LiDAR Survey of Transmission Line Survey/Hydropower projects). After completion of Basic Degree (3) 	
	 LiDAR Data acquisition Expert: One (5) At least minimum of 4 years of experience in LiDAR Data Acquistion. (2) 	
	 At least three (3) projects of relevant work experience in LiDAR Data Acquisition (Experience in LiDAR Survey of Transmission Line Survey/Hydropower projects). After completion of Basic Degree (3) 	
	 LiDAR Data Processing Expert: One (5) At least minimum of 4 years of experience in LiDAR Data Processing. (2) 	
	 At least three (3) projects of relevant work experience in LiDAR Data Processing (Experience in LiDAR Data Processing of Transmission Line Survey/Hydropower projects). After completion of Basic Degree (3) 	





B. Experience		
General of consulting firm	 15 At least 7 years of Experience in Topographic Survey/LiDAR Survey of Transmission Line/ Hydropower/ Irrigation Projects 	40%
Specific experience of consulting firm within last 7 years.	 15 The consultant must have carried out at least 5 national/ international projects related to survey activities of transmisión line/ hydropower/irigation in the last 7 years.(5) The consultant must have carried out at least minimum of 2 national LiDAR Survey projects within last 3 year where one of the projects must be transmisión line project. (5) The mínimum of 40 km transmisión line survey using LiDAR technology. (5) 	
Similar Geographical experience of consulting firm	 Experience in conducting LiDAR Survey in Transmission Line/ Hydropower projects in Nepal Himalaya in last 7 years. 	
C. Capacity	12	20%
	 Average Annual turnover must be at least NRs. 1,80,00,000/-(In Words :- One Crore Eighty Lakh Rupees Only) of best of 3 Fiscal Year of last 7 Fiscal Years. 	2070
Infrastructure/equipment related to proposed assignment	 The Consultant must present bill/ proof of GNSS Survey and LiDAR equipments. The consultant should present the minutes of understanding / autorized letter of supplier/company in case of import of eqipments from abroad. 	





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.

Evidence of ownership of the above specified equipment shall be submitted along with the EoI application.





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:

То,	
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 **NEA Engineering Company Limited** as Consultant for **LiDAR Survey of 400 kV Transmission Line from Butwal to Lamahi.**
- 2. Attached to this letter are photocopies of original documents defining:
 - a) the Applicant's legal status;
 - b) the principal place of business;
- 3. **NEA Engineering Company Limited 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 regarding the resources, experience, and competence of the Applicant.
- 4. **NEA Engineering Company Limited** 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,

Chirantan Bikram Rana

NEA Engineering Company Limited

Trade Tower, Thapathali, Kathmandu

Cell: 9851018844

e-mail: Chirantan.rana@neaec.com.np

- 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 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.) (A Joint Venture Agreement shall be submitted in case of joint venture of two firms)





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.						

(Note: Supporting documents for general work experience in letter head of client or end user should be submitted for the above.)





3(B). Specific Experience

Details of similar assignments undertaken in the previous seven years

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

Assignment name:	Approx. value of the contract (in current NRs; US\$ or Euro) ² :			
Country:	Duration of assignment (months):			
Location within country:				
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):	No. of professional person-months provided by the joint venture partners or the Sub-			
Completion date (month/year):	Consultants:			
Name of joint venture partner or sub-Consultants, if any:	Narrative description of Project:			
Description of actual services provid	led in the assignment:			

Note: Provide highlights on similar services provided by the consultant as required by the EOI assignment.

Firm's Name: _____

(Note: Supporting documents for specific work experience in letter head of client or end user should be submitted for the above.)

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





3(C). Geographic Experience

Experience of working in similar geographic region or country

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

No	Name of the Project	Location (Country/ Region)	Execution Year and Duration
1.			
2.			
3.			
4.			
5.			
6.			
7.			

(Note: Supporting documents for similar geographic experience should be submitted for the above





4. Capacity(*In case of joint venture of two firms to be filled separately for each constituent member*)

4(A). Financial Capacity

Annual Turnover				
Year	Amount Currency			

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

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





No	Infrastructure/equipment Required	Requirements Description
1.		
2.		
3.		
4.		
5.		

4(B). Infrastructure/equipment related to the proposed assignment

(Note: Supporting documents for ownership of equipment should be submitted for the above.)





5. Key Experts (Include details of Key Experts only)

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

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

(Please insert more rows as necessary)

(Note: CV documents for key experts with signatures should be submitted for the above.)



