



Government of Nepal

Ministry of Physical Infrastructure and Transport

Department of Railways

Rail, Metrorail and Monorail Development Project

Bishalnagar, Kathmandu.

Expression of Interest (EOI) Document for

**Shortlisting of Consulting Services
for**

**Feasibility study of Satdobato-Khokana and Narayangopal Chowk-
budanilkantth electrified metro railway**

**Procurement of Consulting Services
(For National and International Consulting
Services)**

Financing Agency: Government of Nepal

Issued on: January,2019

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

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A. Request for Expression of Interest

Government of Nepal
Ministry of Physical Infrastructure and Transport
Department of Railways
Rail, Metrorail and Monorail Development Project
Bishalnagar, Kathmandu
Date: 2075/10/11(Jan 25th,2019)

Name of Project: **Feasibility Study of Satdobato-Khokana and Narayan gopal Chowk-Budanilkantha electrified metro railway**

1. Government of Nepal (GoN) has allocated fund toward the cost of **Feasibility of Satdobato-Khokana and Narayangopal Chowk- Budanilkantha electrified metro railway** and intends to apply a portion of this fund to eligible payments under the Contract for which this Expression of Interest is invited for International consulting service.
2. The Government of Nepal, Ministry of Physical Infrastructure and Transport, Department of Railways, Rail, Metrorail and Monorail Development Project now invites Expression of Interest (EOI) from eligible consulting firms (“consultant”) to provide the following consulting services: **Feasibility study of Feasibility of Satdobato-Khokana and Narayangopal Chowk-Budanilkantha electrified metro railway.**
3. Interested eligible consultants may obtain further information and EOI document free of cost at the address, Government of Nepal, Ministry of Physical Infrastructure and Transport, Department of Railways, Rail, Metrorail and Monorail Development Project, Bishalnagar, Kathmandu, Nepal until 12:00 hrs noon **2075/11/12(24th, Feb 2019)** or visit e-GP system www.bolpatra.gov.np/egp or visit the client’s website www.dorw.gov.np
4. Consultants may associate with other consultants to enhance their qualifications.
5. Expressions of interest shall be delivered online through e-GP system www.bolpatra.gov.np/egp until 12:00 hrs noon **2075/11/13(25th, Feb 2019).**
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, Experience, and Financial Capacity** 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% in general.

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.
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 firms.
4. The assignment has been scheduled for a period of **3 months**. Expected date of commencement of the assignment is June **2019**.
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. applicants shall submit their EOI application through e-GP system by using the forms and instructions provided by the system.
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 REFERENCES FOR FEASIBILITY STUDY

OF

Satdobato-Khokana,Narayangopal Chowk-Budanilkantha ELECTRIFIED Metro RAILWAY

1. BACKGROUND

1.1 General

Kathmandu valley, consisting of three main Districts of Kathmandu, Lalitpur and Bhaktapur is the main political, cultural, educational and commercial center of Nepal. Surrounded by the hills on all its sides, and is home to about 30% of the total urban population. Along with the new developments within the valley, rapid economic development and increasing of the residents and unprecedented immigration of the rest of the country toward the capital, Kathmandu valley have had a highly dynamic and rapid urbanization in the past decades, one of the highest in south east Asia.

The population growth of Kathmandu valley, especially city area of Kathmandu and Lalitpur municipalities is very high i.e. about 6.5% and the permanent population is about 2.5 million. Therefore, the population within and around the ring road will be about 3 million including temporary population and tourists. The roads are narrow and the traffic congestion is high. The travelling time across the city is very time consuming. The bus services are very slow and crowded. It is quite difficult to travel and reach to destination in time using public transport. Therefore, the mass rapid transport system is required to develop. Government of Nepal is planning to construct international airport in Nijgadh,76 km away from Kathmandu valley and is connecting Kathmandu valley by fast track and railway connection to other part of the country. The Department of Railways, Railways, mono and Metro development project realized to develop Mass Rapid Transit systems along area of Kathmandu and Lalitpur cities. Railway systems are feasible and the way to solve the problems of traffic congestion, slow movement of traffic and movement of large number of passengers in the cities.

1.2 Location

Satdobato-Khokana,Narayangopal Chowk-Budanilkantha Electrified Railway Line.

The project is located in the Lalitpur and kathmandu district. The railway alignment passes through city of Kathmandu and Lalitpur. The alignment shall start at satdobato and runs along khokana the starting point of Kathmandu -terai fast track road. The other The alignment shall start at Narayangopal Chowk and runs along Budanilkantha in Kathmandu district. The proposed new railway line is expected to meet the passenger traffic demand of the urban population.

2. OBJECTIVES

The objectives of the assignment shall be to prepare a feasibility study for the construction of above mentioned new Electrical Railway Line upgradable to future high-speed system and the services shall include but not limited to the following:

- Selection of alignment and Preliminary Engineering Designs for the Railway System
- Traffic survey and determining the existing and further transportation demand
- Preliminary cost estimates for track, bridges and other structures, power supply arrangement, overhead electrical lines, rolling stock, signaling and telecommunication, stations etc.
- Assessment of technical and economic feasibility.
- Assessment of environmental and socio-economic impacts and recommendation of impact management plans.
- Project implementation and operation modalities.

3. SCOPE OF WORK

The Principal services to be provided by the consultants to fulfill the objectives of the consultancy services are given below. However, these services are indicative of the overall task to be performed by the consultants. The consultants shall be responsible for carrying out all necessary field surveys works including traffic survey, topographical survey, alignment survey, geological and geotechnical investigation, laboratory testing, environmental and socio-economic studies and studies for railway system designs required for the preparation of the feasibility study reports. The consultant shall carry out their services in accordance with accepted professional standards and International practices.

3.1 Technical

a) Traffic survey and demand forecast

The tasks shall include investigation and data collection of:

- Current spatial development along the proposed rail corridor:
- Economic conditions, population size and density, employment etc.
- necessary traffic count surveys:
- traffic share of different mode of transport and travel demand survey
- traffic type and volume studies for forecast (20 year) of future traffic growth for freight (considering requirement of open top cars, covered wagons, container & general purpose flat wagons, hopper wagons and oil tanker car/wagons etc.) and passenger reflecting the likely changes in socio-economic factors.
- Public transport information such as fare, route, transport mode preferences survey etc.
- bus occupancy surveys;
- Journey time surveys along the corridor;
- probable fare structure and comparison with other mode of transport

b) Selection of Alignment and Preliminary Designs

The tasks shall include:

Civil Engineering

- Identity three alternative alignments for:
 - i) Satdobato to Khokana and Narayangopal Chowk to Budanilkantha.
 - ii) Study the identified alternatives with the help of aerial photographs (1:25,000)/satellite imagery, geological maps, land use maps hazard maps etc.

- iii) Utilize knowledge and experiences of local people to understand social and environmental constraints in the selected alternatives.
- iv) Conduct topographical and geotechnical field surveys to prepare geological, geomorphologic, geotechnical maps etc.
- v) Select most feasible, economic and environmentally suitable alignment
- vi) Prepare technical drawings of horizontal and vertical alignments.
- vii) Identify locations of stations, depots, workshops for the railway system with view to maximize developments as transport interchanges and also potential commercial developments including provisions of any facilities for future extension for the system for network extension within the country.
- viii) Proposed track-bed and track structures;
- ix) Prepare feasibility level designs drawings/typical drawings of bridges, culverts, road under bridge, road over bridge, stations depots, passenger amenities, workshops, interchanges etc. adequate for preparation of feasibility cost estimate;
- x) Study of viability of construction material and possible quarry sites
- xi) Prepare Project implementation plan

Rolling Stock and System Studies

The consultant shall recommend choice of equipments and system based on the selected alignment, stations and depots;

- Appropriate and economic rolling stock
- Train operation and necessary number of trains
- Power supply requirement, power supply system, feeding method, substation details, structure of OHE, power collection details, supply and catenary details, power supply for signaling and other system etc;
- Signal and communication system (signaling system, train radio system, fixed line telephone, operation control system)
- Station operation equipments

Specification for the Project

The consultant shall specify the standard/specification details for following basis standards adopted for the study.

- Maximum moving dimension and speed, axle load:
- Traction system
- Geometric standards for curve, radius, gradient etc.
- Track structure
- Bridge and other structures
- Electric facilities including OHE
- Signaling and Radio communication system etc.
- Safety Standards

c) Preliminary Cost Estimate

The consultant shall prepare preliminary cost estimate to include:

- Pre construction costs
- Land acquisition costs
- Removal and relocation of services; relocation of household/business resettlement; cost of environmental impact mitigation measures, protection of heritage etc.
- All civil engineering works
- Rolling stock and coach
- Electrical and mechanical system costs
- Operation, management and administration costs
- Detail Design Costs and Construction supervision costs
- Maintenance costs
- Financing costs of the Project

3.2 Environmental and Social Studies

Conduct EIA as per GoN guidelines and requirement when the alignment is found to be technically and financially viable. The report should include:

- Information regarding temporary and permanent damage by the proposed project to the environment e.g. forests, wildlife reservation, areas of known archeological values, and other potential environmental risks;
- Socioeconomic profile and socioeconomic impact assessment of people likely to be effected by the Project and an appropriate environmental management and monitoring plan.
- For Project required land acquisition, recommend resettlement plan specifying cost of compensation and resettlement.
- Prepare Environment Management Action Plan
- Prepare cost of major environmental impact mitigation minimization measures.

3.3 Financial and Economic Studies

Consultants will conduct studies to provide estimate of both economic and financial analyses to cover the covering following but not limited to:

- Summary of investment costs (construction, rolling stock, power supply, catenaries, signaling, telecommunication, centralized traffic control center, station and depot equipments)
- Summary of operating cost
- Assessment of financing costs
- Collect and review information on labor and costs, taxes, interest rates, exchange rates and other relevant information that will affect financial costs and revenues based on traffic that will provide a satisfactory financial internal rate of return for the project. The consultant shall provide detail regarding the assumption made in the analysis together with background and justifications;
- Estimate the economic benefits of the Project, considering scenarios with and without the Project, stage wise construction approach and estimate the economic rate or return based on evaluation of cost and benefits;
- Carryout sensitivity analysis to test the project result against possible risks and likely changes in key variables such as forecasted traffic growth rate, capital costs, implementation delays, inadequate level of maintenance and combination thereof.

- Quantification of funding needs and recommendation of financing model. Merits/demerits and viability of BOT, private public partnership, public sector funding and program funding etc.

3.4 Institutional Capacity Studies

The Consultants shall conduct studies to assess the present institutional capacity of DORW and recommend the institutional set up required for implementation of the Project and operation and maintenance of the railways after completion.

4.0 DURATION OF THE SERVICES

It is estimated that the consultant's assignment will take a total of about twelve months to complete. The consultant is expected to commence work in June 2019 and to complete in August/September, 2019.

5.0 REPORTING REQUIREMENTS

All computer programs, field notes, work sheets, original drawings, study reports and other documents relating to the Feasibility Study shall be the property of Department of Railways. The consultant shall prepare and submit the following reports;

5.1 Inception Report (Six copies)

The consultant shall prepare and submit an Inception Report within a month from the commencements of the Contract Agreement. The report will further elaborate the consultant's proposal and shall include the consultant's detail work program for the duration of the services. The Consultants shall also make a presentation of their Inception Report.

5.2 Monthly Progress (Three copies)

The consultant shall prepare and submit monthly progress reports on the progress of project activities. The reports shall be submitted within the first week of successive month.

5.3 Mid Term Review

The consultant shall make a midterm presentation regarding selection of alignments and the progress status of the study five months after submission of the Inception Report at a suitable venue agreed with the Client. In addition, the Consultant shall make addition presentation to the Client as a part of an interactive process for the benefit of the Feasibility Study as and when mutually agreed.

5.4 Draft Final Feasibility Study Report (Six Copies)

The consultant shall prepare and submit draft final Feasibility Study Report for Client's comments at the end of the 2.5 month after effectiveness of the Contract. The report shall comprise of the findings and recommendation of the consultant which shall include the following but not limited to;

- traffic survey and demand forecast study;
- selection of alignment and preliminary designs;
- suitable technology option for the railway;
- environmental & social studies;
- financial & economic studies;
- project implementation modalities & plan;
- preliminary cost estimate;
- institutional arrangement for implementation, operation & maintenance of the railway on completion; and
- preliminary drawings mentioned under the "Drawings heading"

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The consultant shall also make presentation of the report in venue agreed with Client.

5.5 Final Feasibility Study Report (Ten Copies)

The consultant shall prepare and submit Final Feasibility Study Report after incorporating the comments received from Client within 3 (three) months from date of effectiveness of the Contract Agreement.

5.6 Drawing (Ten copies)

As a part of the Feasibility Study Report, the consultant shall prepare and submit the following drawings:

- a) General Alignment plan in 1:25,000 scale recent topographic map developed by Survey Department showing recommended and alternate proposed rail lines;
- b) Plan and profile of the recommended rail alignment showing structures at 1:5000 horizontal & 1:5000 vertical scale. In built up areas the plan and profile drawings will be enlarged to 1:2500 horizontal and 1 in 250 vertical scales.
- c) Preliminary layouts drawings of station, depots and workshops
- d) Typical cross section and General Arrangement Drawings showing Road under bridge (RUB) and Road over Bridge (ROB) across the proposed rail line.
- e) Typical cross section showing space reserved within the proposed railway corridor for future addition of railway lines and facilities.
- f) Typical drawings of track, embankment, bridges, tunnels, other structures, also track isolation methods etc.
- g) General arrangement drawings of traction, signaling and train control equipment and installations along track and depot/workshop lighting.
- h) General arrangement/typical drawings of coaching stock showing x-section and seating plan.

6. STAFFING REQUIREMENT

It is estimated that approximately 7.5 Person-Months of International staff input and 22 Person-months of professional national staff input advised in the team composition will be required for carrying out the consultant's services. In addition to the professional staff mentioned in the team composition other technical and administrative support staff that will be required for satisfactory completion of the services shall be estimated and include by the consultant in the Financial Proposal.

Estimated Team Composition (Key Staff)

Professional Staff

International Professional Staff		National Professional Staff	
Team Leader/Railway Expert	1	Deputy Team Leader/Transport Engineer	1
Railway Alignment Design Engineer	1	Structure/Bridge Engineer	1
Structure/Bridge Engineer	1	Economic & Financial Analyst	1
Train Operation Expert	1	Environmental and social resettlement Expert	1
Traffic Engineer	1		
Economic/Financial Analyst	1	Quantity Survey Engineer	1
		Senior Survey Engineer/Surveyor	1
		Geologist/Geotechnical Engineer	1
		Hydrologist	1
	6		8

Note: - The above professional staff composition and total estimated staff person-month is client's suggestion as a minimum requirement. The consultants are advised to propose their own staff composition and staff input requirement in addition to the above for efficient performance of their job as per the Terms of References. If the proposed consultant's team and input is found inadequate by the client during the performance of the service, then additional staff shall be provided by the consultant at their own cost.

7. CONSULTANT FACILITIES

It should be noted that the consultant will need to provide all the administrative, technical professional and support staff needed to carry out their services. The Consultants will also be responsible for providing all other necessary, facilities and logistical support for its staff, including accommodation, vehicles, miscellaneous transportation, office equipments, communications, utilities, and other miscellaneous costs for carrying out the services as per the requirements of the TOR.

8. DATA AND ASSISTANCE TO BE PROVIDED BY THE CLIENT

The Following shall be provided to the Consultant by DORW.

- related reports
- access to all other available necessary documents and data available in MOPIT/DORW required for the performance of the consultant's services.
- where required provide assistance to collect data/information from relevant GoN offices and departments.
- assistance in obtaining visa and work permits.

9. CONTRACTUAL ARRANGEMENTS

The Consultant's contract will be with Government of Nepal, Department of Railways and will be based on a contract agreement consistent with the Public Procurement Monitoring Office guidelines and documents for consultancy services contracts.

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	
VAT/PAN Registration (for National consulting firm only)	
Tax Clearance/Tax Return Submission/Letter of Time Extension for Tax Return Submission 2074/075 (for National consulting firm only)	
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	Score Out of 100 pts.	Requirement
A. Qualification		
A1. International Staff		
Qualification of Key Experts	12	
1. Team Leader	4	Graduate in Civil/Railway Engineering and preferably have a Master's Degree in the related field.
2. Alignment Engineer	2	
3. Structural / Bridge Engineer	3	
4. Economic/Financial Analyst	3	
Experience of Key Experts	12	
1. Team Leader	4	Experience in Railway Sector and preferably have experience in the related field.
2. Alignment Engineer	2	
3. Structural / Bridge Engineer	3	
4. Economic/Financial Analyst	3	

A2. National Staff		
Qualification of Key Experts	9.00	
1. Deputy Team Leader	3.00	Graduate in Civil/Railway Engineering and preferably have a Master's Degree in the related (for DTL Highway /Railway Engineering) field.
2. Structural / Bridge Engineer	3.00	
3. Engineering Geologist/ Geotechnical Engineer	3.00	

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Experience of Key Experts	9.00	
1. Deputy Team Leader	3.00	Experience in Railway/ Highway/Bridge/Tunnel Sector.
2. Structural / Bridge Engineer	3.00	
3. Engineering Geologist/ Geotechnical Engineer	3.00	

B. Experience		
General experience	13	General experience of the consultants in Civil /RailwayEngineering Projects
Specific experience of consulting firm within last 7 years.	30	Feasibility/ Detail design of Rail Projects Railway Bridge Projects Elevated Railway/Metrorail Projects
Similar Geographical experience of consulting firm	5	Experience inNepal, SAARC Countries, Out of SAARC, ASIA countries (difference than nation of incorporation)
C. Capacity		
Financial Capacity	10	Average Annual turnover equal to or greater than US \$ 0.3 million <u>10.00 pts.</u>

E. 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]
6. We declare that, we have no conflict of interest in the proposed procurement proceedings and we

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

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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):
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: _____

3(C). Geographic Experience

Experience of working in similar geographic region or country

(In case of joint venture of two or more 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.			

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

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

5. 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)

International

SN	Name	Position	Highest Qualification	Work Experience (in year)	Specific Work Experience (in year)	Nationality
1		Team Leader				
2		Alignment Engineer				
3		Structural / Bridge Engineer				
4		Engineering Geologist/Geo-Technical Engineer				

National

SN	Name	Position	Highest Qualification	Work Experience (in year)	Specific Work Experience (in year)
1		Deputy Team Leader			
2		Structural / Bridge Engineer			
3		Engineering Geologist/ Geotechnical Engineer			