



**HIMACHAL PRADESH TOURISM DEVELOPMENT CORPORATION LTD  
RITZ ANNEXE, SHIMLA-171 001**

**Tel. No: (0177) 2652704-06  
File No. Proj./4-164/19-TDC**

**Email: [project@hptdc.in](mailto:project@hptdc.in)  
website: [www.hptdc.in](http://www.hptdc.in)**

**Expression of Interest**

HPTDC intends to invite sealed bids through e-procurement system from firms/consultant/consultancy firms registered with appropriate registering Govt. authority for preparation and submission of DPR which includes conceptualisation, designing. Preparation of BOQ, power point presentation of projects showing all the components and master plan for impressive group virtual reality tour in bus in Transit of Rohtang Tunnel on Leh-Manali Highway proposed to be executed by HPTDC. The proposed project cost would be approximate Rs. 08.00 Crore. The bid shall reach in the office of Executive Engineer-I, HPTDC Shimla on or before 23/11/2019 at 10:30 AM. The bids shall be opened on the same day at 11:30 AM in the presence of consultants/ consultancy firm or their representatives.

Other terms and conditions may kindly be downloaded from our website [www.hptdc.in](http://www.hptdc.in) or <https://hptenders.gov.in>.

Executive Engineer

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**RITZ ANNEXE, SHIMLA-171 001**

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**Email: [project@hptdc.in](mailto:project@hptdc.in)**

**Website: [www.hptdc.in](http://www.hptdc.in)**

## ***Expression of Interest***

*for*

***SELECTION/ APPOINTMENT OF CONSULTANTS FOR THE  
PREPARATION OF DETAILED PROJECT REPORT (DPR) FOR***

**Impressive group virtual reality tour**

**in bus in Transit of Rohtang Tunnel**

**on Leh-Manali Highway,**

***HIMACHAL PRADESH***

E.O.I. Notice No. **Proj./4-164/19-TDC**



## **EOI SCHEDULE**

Name of Authority Issuing EOI	<b>H P Tourism Development Corp. Ltd. The Ritz Annexe, Shimla-171001</b>
Date of Release of EOI	11/11/ 2019
Document download start date	11/11/2019
Document download end date	23/11/2019 at 10:30
Bid submission start date	11/11/2019 at 11:30 AM
Bid submission end date	23/11/2019 at 10:30 AM
Pre-bid Meeting	20/11/2019 at 1 PM
Last date for Submission of Bid in hard copies	23/11/2019, 11:00 AM
Mode of Submission	Online at <a href="http://hptenders.gov.in">hptenders.gov.in</a> 23/11/2019, 10:30 A.M.
Place of submission of Hard Copies	Executive Engineer-I, Himachal Pradesh Tourism Development Corporation Ltd., The Ritz Annexe, Shimla-171001 H.P.
Date of opening of bids	23/11/ 2019 at. 11:30 A.M.
Contact Information	Executive Engineer-I, Himachal Pradesh Tourism Development Corporation Ltd., The Ritz Annexe, Shimla-171001 H.P. Phone: +0177-2652704-06 Website: <a href="http://www.hptdc.in">http://www.hptdc.in</a>

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## **SECTION – I: (INVITATION OF EOI)**

### **1. Background:**

The Himachal Pradesh Tourism Development Corporation Ltd., Ritz Annexe Shimla Himachal Pradesh is a nodal agency that plays a pro-active role in the promotion of tourism and facilitating the tourists visiting the State. This is done through a wide range of literature, publicity material, participation in National and International fairs/meet, by creating/upgrading infrastructure and transport amenities in the tourist places/destinations and also creating new tourist destinations in the State. Govt. of Himachal Pradesh. HPTDC Ltd. Ritz Annexe, Shimla intends to create/construct a “impressive group virtual reality tour in bus in Transit of Rohtang Tunnel on Leh-Manali Highway H.P with approximate cost of Rs.07.00 crore (seven crore) through Himachal Pradesh Tourism Development Corporation Ltd. Ritz Annexe, Shimla. The Govt. of Himachal show case of Himachal Pradesh and brief about Rohtang Tunnel. Therefore HPTDC invites Expressions of Interest (EOI) from qualified & reputed firms/ Consultant/ Consultancy Firms, as per requirements given in Section – III of this document.

### **2. Contact Information:-**

**HIMACHAL PRADESH TOURISM DEVELOPMENT CORPORATION LTD.  
RITZ ANNEXE, SHIMLA-171001  
Tel. No: (0177) 2652704-06 Fax No: (0177) 2652206  
Email: [project@hptdc.in](mailto:project@hptdc.in) Website: [www.hptdc.in](http://www.hptdc.in)**

### **3. Pre-bid Meeting:-**

The Pre-bid meeting will be held at address given at Sr. No. 2 above, on 20/11/2019 at 1 PM. to sort out/ resolve queries raised by the prospective consultants regarding the scope, theme of project, terms and conditions etc. The prospective consultants requiring any clarification on the EOI document, may send their queries in writing or through e-mail ( [project@hptdc.in](mailto:project@hptdc.in)) to the Executive Engineer-I, “Himachal Pradesh Tourism Development Corporation Ltd., Ritz Annexe, Shimla-171001 (HP)” and will be

responded during the pre- bid meeting. The queries/doubt /clarification etc. must reach at least two days prior to the date of Pre-bid meeting.

#### **4. Document Fee:-**

- The EOI documents must be submitted along with document fee of Rs. 2000.00 inclusive GST (non-refundable) in the form of Demand Draft drawn at any Commercial Bank in favour of **Managing Director, Himachal Pradesh Tourism Development Corporation Ltd, Ritz Annexe, Shimla.**
- The EOI document should be submitted along with EMD of Rs 15,000 (refundable) in the form of Demand Draft drawn at any Commercial Bank in favour of **Managing Director, Himachal Pradesh Tourism Development Corporation Ltd, Ritz Annexe, Shimla.**

#### **5. How to Apply:-**

The documents as listed below should be submitted online at [hptenders.gov.in](http://hptenders.gov.in) as well as hard copies in the office of Executive Engineer –I, HPTDC, Ritz Annexe, Shimla on or before last date of submission of bids. In case of any discrepancy in online and offline documents, online documents will be considered as final. The hard copies of bids are to be submitted in three separate SEALED envelopes, as per detail given below.

##### **a) Envelope – 1:**

Demand Draft towards document fee.

##### **b) Envelope – 2:**

- i. Cover letter
- ii. Authority letter.
- iii. Information about Organizational Structure.

- iv. Details of personnel
- v. Curriculum Vitae (CV) of Key Professionals.
- vi. The Bidder should be registered under the Companies Act, 1956 or Companies Act, 2013 or a partnership firm registered under Indian Partnership Act, 1932 or Limited Liability Partnership registered under Indian Limited Liability Partnership Act, 2008 or a Joint Venture governed by Indian Partnership Act, 1932. (Joint venture with maximum of 3 partners is allowed) or a Consortium with maximum of 3 Partners.
- vii. Copy of PAN Card.
- viii. Copy of GST registration.
- ix. The document establishing that any Director or associate of the consultancy firm or consortium has a work experience of minimum 5 years in the area of providing consultancy services.
- x. An undertaking as per the following on an official letter head of the firm (or the sole applicant).

I/We have read the EOI conditions and having accepted all the terms and conditions and send herewith all the required documents for being considered for appointment as Consultant (Design & Supervision). In the event of getting selected, I /We undertake to carry out the full scope of work as per the terms and conditions of the HPTDC.

Signature

(Name and seal of the firm)



- xi. A write-up on the Design Philosophy (not more than 5 pages) adopted by the firm in similar works completed and proposed Design Philosophy for this assignment.
- xii. Details of work executed for previous works of similar nature with names, addresses and other contact details; drawings, sketches, photographs etc. in hard copies as well as soft copies (for projection purposes should be included). Submit the copies of work order or completion certificates.
- xiii. Details of work order for conceptualisation designing and execution of a project value equal or more than Rs. 3.5 Crores of any State / Central Govt. Institution or reputed private firms, detail of work orders be attached alongwith completion certificate.
- xiv. Details of global presence, if any.

**xv. Envelope-3:  
Financial Proposal**

The financial proposal/financial bid shall be opened only of short listed Firms/ Consultants/ Consultancy Firms, the firms can quote their fee in lump sum or percentage of the project cost.

**6. How to send the Proposal**

All bids must be uploaded on the web site mentioned in proceeding pages and hard copies to be sent to the address as given in the EOI schedule. The applications should be in a sealed envelope. The outer cover of the envelope should be superscribed the following:-

**Proposal for Impressive group virtual reality tour in bus  
in Transit of Rohtang Tunnel on Leh-Manali Highway**

E.O.I. Notice No. Proj./4-164/2019-TDC

Dated 07-11- 2019

(Bids must also include a soft copy (in CD/DVD/pen drive) of the complete documents. This submission should reach the HPTDC on or before the last date and time of submission of EOI as given in the EOI schedule. The **Himachal Pradesh Tourism Development**

**Corporation Ltd.** will not take any liability for applications received after the due date and time, for any reason.

NOTE: Submittals will not be returned to the Applicants and shall become the property of the **Himachal Pradesh Tourism Development Corporation Ltd.** For any further clarification, the applicants can contact the Executive Engineer-I **HPTDC Ltd. Ritz Annexe, Shimla.** (As per the contact details given in the EOI schedule).

## **7. Validity Of EOI**

The EOI shall be valid for a period of 120 days from the last date of submission.

## **8. Last Date for submission of EOI Documents**

Last date for submission of EOI documents is given in the EOI schedule. The hard copy of documents can be submitted in person or can be sent through mail/courier, so as to reach on or before the last date and time stipulated in this document. **Himachal Pradesh Tourism Development Corporation Ritz Annexe, Shimla-171001 Ltd.** shall not be responsible for postal / courier delays, if any, or any other reason for non-receipt of document with in the specified time and it will result in disqualification/rejection of the bid. In case of damage of CD/ DVD/ Pen drive during postal/ courier, the firm is solely responsible for his/their rejections.

## **9. Opening of EOI Documents**

The EOI Documents will be opened, in the presence of the applicants or their authorized representatives (maximum two with an authority letter from the applicant), who choose to attend, at the address given at para 2 above.

**(END OF SECTION – I)**

## **SECTION – II: CONDITIONS OF EOI)**

### **1. Stipulated Time Duration of Services:-**

The designs and allied consultancy services that are required for commencement of work should be provided within 21 days from the date of award of contract by the selected consultants/consultancy firm i.e. preparation of DPR, preparation of BOQ and allied consultancy to short list the contracting firm/ contractor for execution of work (such as process to invite Notice Inviting Tender etc as required by HPTDC). The selected consultants are required to associate within HPTDC till the defect liability period after completion date of work by contractor or contracting firm. The consultant/consultancy firms are required to prepare power-point presentation of project to be shown during the final round of technical evaluation or as required by HPTDC.

### **2. Eligibility Criteria:-**

This EOI is intended to provide consultancy service for conceptualisation, designing and execution of proposed project by reputed consultants / consultancy firms who have experience in such projects. The firm should clearly indicate, who will take the responsibility for all the deliverables and with whom the HPTDC will deal only those who satisfy the stipulated criteria given below shall qualify for next stage and will be considered for further processing of financial bids.

#### **The following criteria are applicable to the consultants/the consultancy firms:**

- 1) The applicant must be an Indian entity, having an office in India and should be registered firm or individual with the Govt. or Govt. bodies.
- 2) The applicant should have valid GST registration.
- 3) The applicant should not be a loss-making Firm.
- 4) The applicant should have experience in the field of conceptualisation, designing and execution of such projects.
- 5) The firm should submit the details of completed works along with completion certificate of Work.

- 6) The applicant should have sufficient qualified and experienced staff for designing of virtual components of project or should be in panel with relevant qualification and experience.
- 7) The bidder/ applicant required to submit PPP (power point presentation) during the submission of documents (hard copy) of project showing all the components of the project with proposed Master Plan.
- 8) The bidder shall furnish notarized affidavit in support of correctness of all the documents.
- 9) The bidder should have audited average annual financial turnover of Rs.1 Cr or above for the last three financial years.

### **3. Evaluation Criteria:-**

- a) The applications for the EOI received within the due date & time will be scrutinized by a Committee, constituted for the purpose. Merely fulfilling all the requirements shall not entitle the firm(s) to qualify in the EOI.
- b) The Committee will scrutinize the EOI applications and will shortlist the applicants according to the criteria fixed in this EOI.
- c) The participant will be evaluated through the following three stages:
  - a. Stage 1: In first stage, a minimum of three applicants ( or any number as per the decision of the committee) will be shortlisted as per Eligibility Criteria mentioned at Sr. No 2. Merely fulfilling the eligibility criteria shall not entitle the applicant for the next stage.
  - b. Stage 2: The shortlisted applicants shall be issued separate letter and will be given maximum one weeks time to present their proposal in person to the Committee for which place and date shall be intimated later. The bidder/ applicant required to submit soft copy of the presentation showing all the components of the project.
  - c. Stage 3: The applicants will be awarded marks based on various parameters as per the procedure outlined below. Their financial bids shall be opened and selection shall be done based on the techno-commercial evaluation.

Following parameters shall be used for the technical evaluation:

No.	Parameters	Marks
1.	Experience of conceptualisation Designing and execution of project ( for the last 5 years) of similar nature One work = 3 crore or above Or two work 1.5 crore each Or three work 1 crore each	20
2.	Technical staff (Permanent staff or in panel). (Qualified personnel with adequate experience in Design, simulation and execution of such project a) Less than 10 b) 10-20 & above	5 10
3.	Firm's experience. To be submitted in hard copies as well as soft copies including name and address of clients and completion certificate (for projection purposes) with a write-up on each work. Below 5 years 5 to 10 year 10 year	5 10 20
4.	Average Annual Turn Over (For the last Three Financial Years) Less than Rs. 50.00 Lacs Rs. 50.00 Lacs. More than Rs.50.00 lacs upto 1.00 crore Above Rs.1.00 crore	0 10 15 20
6.	Presentation regarding "impressive group virtual reality tour in bus in transit of Rohtang Tunnel on Leh –Manali Highway" showing all the components of the project. 1. Understanding of the project. 2. Concept of project. 3. Innovativeness of the project concept	10 10 10
<b>TOTAL MARKS</b>		<b>100</b>

d. Minimum 3 no. firms shall be shortlisted based on the score achieved as per Sr. no. 1 to 4. The final firm/agency shall be selected based on its presentation made by shortlisted participants for which date and time shall be intimated in due course.

e. The applicant (s) securing minimum marks as given below will only qualify for further processing.

I. **Minimum 50% marks in each parameter**

**or**

II. **Minimum 60% aggregate marks**

**(Or as per the final decision of committee)**

a) No travelling allowance etc. shall be paid for participation and presentation to participant bidders.

b) The successful Bidder will be required to enter into an Agreement with the **Himachal Pradesh Tourism Development Corporation Ltd.** within the period of 30 days from the date of issue of letter of intent (LOI or letter of award). Before signing the Agreement, selected Consultant/ consultant firm will be required to submit a "Performance Guarantee" in the prescribed format in the shape of an irrevocable Bank guarantee till defect liability period of work executed by executing agency equal to 2% of the total value of contract if fee agreed from a scheduled Bank.

#### **4. Dispute Resolution:-**

**The Himachal Pradesh Tourism Development Corporation Ltd.** will designate Executive Engineer, as Engineer-in-charge for the execution of "Impressive group virtual reality tour in bus in Transit of Rohtang Tunnel on Leh-Manali Highway". In case, a dispute arise between the Consultant(s) and Engineer-In-charge, it will be referred to Managing Director HPTDC for amicable solution. If dispute still persists it will referred for resolution to the dispute resolution body which shall have consent of both the parties and Managing Director, HPTDC Ltd. will refer the matter to a Sole Arbitrator who shall be nominated by the Managing Director, HPTDC, as per Arbitration and Conciliation Act

1996 (with latest amendments). For any appeal jurisdiction shall be the Hon'ble Courts situated at Shimla.

#### **5. Compensation for Delay:-**

A time schedule fixing the timelines for various milestones of the design process will be as per the award letter issued. This will also be linked to the release of installments of fees. Compensation at the rate of 0.25% of the relevant fee amount per week shall be recovered for delay in completing the stages of assigned work as per milestone chart, subject to a cumulative maximum of 5% of the total fees payable. If any delay on part of the Consultant is due to delay in issuance of approvals by **Himachal Pradesh Tourism Development Corporation Ltd.** or any other statutory authorities, it will be taken into account while deciding imposition of compensation. The decision of the Managing Director, HPTDC in deciding the compensation will be final and binding on both the parties.

#### **6. Termination of Agreement:-**

The agreement may be terminated at any time by either of the party by giving a written notice of 30 days. In the event of the termination of the agreement by **Himachal Pradesh Tourism Development Corporation Ltd.**, the Consultant(s) shall not be entitled for any compensation or damages by reason of such termination except for fee payable for the milestones of assigned work actually achieved (Based on actual submissions) up to the date of notice. In case of termination by **Himachal Pradesh Tourism Development Corporation Ltd.** is due non performance of the Consultant or the Consultancy firm terminating agreement on his/their own, the performance guarantee deposit shall be encased/ forfeited towards penalty.

## **7. Transfer of Interest:-**

So long as the agreement subsists, the consultant shall not assign, sublet or transfer its interest in this agreement, without the written consent of the HPTDC.

- The HPTDC shall have the right to modify/change the concept drawings & design as per its requirements at the time of finalization of concept design drawings and DPR etc.
- The selected consultant / firm shall have to furnish the complete design, drawings and DPR within 15 days after the approval of concept design.
- The Consultant / firm should ensure site visits whenever required by the HPTDC so that the work does not suffer due to delay on the part of consultant. The HPTDC will not make any payment to Consultant for the site visits in connection with the normal supervision of the project, upto 5 visits post that consultant will be entitled for taxi charges as per entitlement of Class 1 officer of Government of HP state, however free boarding and lodging will be provided by HPTDC in the nearest available HPTDC hotel as per the entitlement of its officer.
- As and when Consultants/consulting firm is called by the HPTDC for site visit for technical assistance, it shall be mandatory for consultant to visit site in the interest of work.

## **9 Payment Mechanism**

For the preparation of DPRs and bidding documents nothing shall be payable on account of manpower, travel, Office Establishment, Equipments, Consumables, Printing & Stationery, Communication, Utilities, Boarding & Lodging, staff allowances, expense which is part of consultancy fee.



Non availability of person /expert of consultancy team during urgent nature of work required at site in connection with project will lead to deduction of fee on pro-rata basis, except during Sunday and Holidays.

1	On approval of concept design and BOQ.	35%
2	Inviting of tender, award of work and procurement of bus, development of design simulation design	30%
3	Content Development & integration	20%
4	Integration of Content with Bus & final commissioning	15%

This fee shall include all costs related to DPR finalization, manpower costs, normal site visits, lodging & boarding, equipments & consumables, copying, printing & stationery, communication, utilities, staff allowances, etc.

If, for any reason whatsoever, it is necessary to drop project Consultant shall accept the HPTDC's decision in this regard for termination of agreement. If any inputs have been provided by Architect/Consultant for such works, it shall be paid on the pro-rata basis for the services rendered by consultant.

No additional compensation shall be granted if the works could not be completed within the contract duration.

**10. APPOINTMENT OF TECHNICAL PERSON AT SITE BY CONSULTANT:** Consultant will require to appoint regular technical person at site who is well versed with the technicalities of the commissioning and smooth running of the project and can supervise the work as per the clauses of the agreement during the execution of project.

**11. QUALITY CHECKS:** For quality checks of material consultant/ consultancy firm should be proactive to check all the equipment as per the specification and a certificate to this effect as well as quality shall be submitted by the selected consultant.

**(END OF SECTION – II)**

### **SECTION – III: SCHEDULE OF REQUIREMENTS**

#### **1. Invitation of Expression of Interest from Consultants/ Consultancy Firms for Design:-**

##### **a. Information about the show**

- i.** The show needs to be an immersive experience.
- ii.** The show should be in a moving bus.
- iii.** The show should have proper sound effects.
- iv.** The show should detail rich cultural heritage of Himachal Pradesh.
- v.** The show should be in synchronisation with the outer world of the moving bus.
- vi.** The real & virtual world movement of the bus should be in synchronisation and should assure to prevent the passengers from nausea.
- vii.** The sound of the virtual content should be synchronized properly with the surrounding environment.

##### **b. Information about Bus**

- i.** The bus should be fully Electric
- ii.** The bus will run inside Rohtang Tunnel during the show

- iii. The bus should be in compliance with weather condition of Himachal Pradesh
- iv. The bus dimension / Wheel-base should adhere with the condition of Himachal Pradesh
- V. Proper display & Sound system should be used to create immersive effect
- vi. The power requirements for the show hardware should be a separate module running on battery only.
- vii. The night halt of the bus should be in Manali for charging and maintenance.
- viii. Physical changes and equipment safety should be as per government standards for unexpected situations including, but not limited to, fire hazards etc.
- ix. The design of bus should as per prevailing norms, laws and standard.

**c. Information about the content**

- i. Content needs to be creative and eye-catching
- ii. Content should be made in a way that it shows smooth transitions from one subject to another
- iii. Content-Type needs to be realistic/real-world type
- iv. It should cover topics such as:
  - 1. About Rohtang project
  - 2. History of Himachal Pradesh
  - 3. Tourist spots in Himachal Pradesh
- v. The entire content should be in 2 languages ( English & Hindi)
- vi. The Voice-over should be done using multiple Artist
- vii. Renowned Voice Over artist should be used for Content

## 2. The Assignment :-

Storyboarding, Designing and Hardware Specifications should be presented using a presentations for the approval for the Govt., PPT, video graphical walk-thru presentation of project showing all the project components should be attached as well.

## 3. Design Concept:-

The Master Plan will be prepared by the Consultant appointed by the **Himachal Pradesh Tourism Development Corporation Ltd.**, The master plan should outline all the design, integration and structural aspect of the project.

A separate plan for show time should also be included in the concept.

## 4. Requirements:-

- 1) Providing consultancy with preparation of DPR and other related documents.
- 2) The design assignment for the development of Impressive group virtual reality tour in bus in Transit of Rohtang Tunnel on Leh-Manali Highway.
- 3) Supervision of the project till its completion.
- 4) Any other work related to the project as per the direction of **Himachal Pradesh Tourism Development Corporation Ltd.**
- 5) Master Plan showing the components to be developed in future expansion and planning in phase wise as required.

## 5. General Guidelines for DPR Preparation

### a) Structure and Content of DPR

A typical structure of DPR is shown in structure of detailed EOI. This may be modified based on specific project requirements. It is important that the DPR covers all aspects related to the project comprehensively. Content of the DPR is also presented. Under each topic, proper, systematic and detailed coverage of all relevant items must be included to avoid any errors and omissions. The DPR shall include descriptive texts, tables, sketches, graphs, figures, maps, etc.

**b) Quality of DPR**

The DPR shall include inputs from all relevant experts, consultations basis of design formulation and adoption of compliance with all applicable standards/norms/policies/guidelines/regulations/ codes etc. Acceptance of the DPR by the HPTDC does not absolve the consultants of their responsibility of completeness and correctness of any content of the DPR.

**c) Inputs to DPR**

Inputs to documentation shall include:-

- HPTDC's requirements,
- Any other stakeholder's requirements.
- Conditions imposed by any rules/ regulations/ policies/ clearances/ approvals etc.
- Site-specific features
- Any other.

**d) Output of DPR**

Outputs of DPR shall include drawings, bid documentation, specifications, etc. essential for award of contract and execution of works at site. Additional outputs during execution may be required in form of additional design details, clarifications, any corrections.

**e) Approval of DPR**

DPR approval process may involve a number of experts as required by the HPTDC. This may also include representatives of any other public/private agency. DPR approval process may require multiple stage submissions, presentations, discussions. Finally, DPR approval will include "Technical Sanction Committee" approval leading to commencement of the bidding process.

## STRUCTURE OF DETAILED PROJECT REPORT (DPR)

### **VOLUME I:- DETAILED PROJECT REPORT**

1. Table of Contents
2. List of Tables
3. List of Figures
4. List of Annexures
5. Abbreviations

#### **Executive Summary**

##### **1. Introduction**

- 1.1 Project Background
- 1.2 Project Objectives
- 1.3 Location Map & Context
- 1.4 Existing Situation/Characteristics/Features
- 1.5 Scope of Work
- 1.6 Approach & Methodology.

##### **2. Preliminary Investigations and Surveys**

- 2.1 Primary Data collection
  - 2.1.1 Topographical Survey
  - 2.1.2 Geotechnical Investigations
  - 2.1.3 Other Investigations
- 2.2 Secondary Data Collection from Documents /Departments
  - 2.2.1 Existing Maps/Records
  - 2.2.2 Past Studies/Literature Review
  - 2.2.3 Other published data

##### **3. Assessment of the Project Requirements**

- 3.1 Design Parameters/Standards/Norms/Polices/Bye-laws/ Regulations etc.
- 3.2 Understanding of geo syncing
- 3.3 Understanding of Virtual Reality and its features

##### **4. Detailed Design of Project Components**

- 4.1 Comments

- 4.1.1 Design Objectives
- 4.1.2 Design Considerations/Basis.
  - 4.1.2.1 Geotechnical and Topographical Considerations
  - 4.1.2.2 Functional Considerations
  - 4.1.2.3 Any other Considerations Design Alternatives
- 4.2 Comparative Evaluation and Recommendation
- 4.2 Detailed Design with applicable Codes.
  - 4.4 Specific Construction/Implementation Guidelines
  - 4.5 Specific Operation & Maintenance Guidelines
  - 4.6 Turn-key Components (Specifications/Performance Requirements, Technology Alternatives).

#### **4. Cost Estimates**

- 5.1 Rate of Analysis shall be based on derivation of Rates and rates notified by the State Govt.
- 5.2 Specifications for Materials and Works-References/Specific Considerations only.
- 5.3 Bill of Quantities -Approach/Specific Considerations only.
- 5.4 Cost Estimates - Component-wise - Approach/Specific Considerations only (including costs of relocation of utilities/activities/uses, land acquisition, etc.).
- 5.5 Summary Cost Estimates.

#### **5. Project Implementation**

- 6.1 Project Implementation Schedule
- 6.2 Implementation Guidelines
- 6.3 Clearances/Approvals will be obtained by HPTDC as per the consultant's advice
- 6.4 Coordination with Line Agencies
- 6.5 Specific Requirements of Contractor's Eligibility (experience, staff, equipment, etc.)

### **VOLUME II: - DRAWINGS**

Drawings shall be printed in colour on ISO A1 size paper for submission. All drawings shall be marked 'TENDER DRAWINGS'.



- VOLUME III:- Detailed Specification of works and Items.**
- VOLUME IV:- Detailed BOQ /Abstract Of Cost Along With Detail Analysis Of Rate /Detail Of Measurement.**
- VOLUME V:- Safety Manual**
- VOLUME VI- Quality Manual**

**(END OF SECTION – III)**