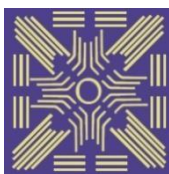


**RFQ-cum-RFP Document**  
**for**  
**Preparation of Functional Plan**



**National Capital Region Planning Board**  
**Ministry of Housing and Urban Affairs**  
**New Delhi**

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**Core 4-B, First Floor, India Habitat Centre,**  
**Lodhi Road, New Delhi -110003**  
**Website: <http://ncrpb.nic.in>**

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## NATIONAL CAPITAL REGION PLANNING BOARD

(A Statutory Body under Ministry of Housing & Urban Affairs, Govt. of India)  
1st Floor, Core-4B, India Habitat Centre, Lodhi Road, New Delhi-110003

### Notice Inviting Tender (NIT) for Preparation of Functional Plan

National Capital Region Planning Board (NCRPB), New Delhi invites sealed bids from National and International Consulting Entities / Organizations/ Joint Ventures/ Consortiums etc. for undertaking works relating to preparation of Functional Plan on 'Transport, Economic Nodes and Industrial Corridors as per Regional Plan 2041 proposals for National Capital Region Area.

The RFQ-cum-RFP document containing the Terms of Reference (ToR), Details of Qualification and Evaluation Criteria etc. can be downloaded along with the draft Contract Agreement from the website of NCRPB i.e. <http://ncrpb.nic.in/tenders>.

Hardcopy of the RFQ-cum-RFP document may also be obtained from the office of NCRPB, Core 4-B, First Floor, India Habitat Centre, Lodhi Road, New Delhi- 110003. Last date of submission of completed bid is 16<sup>th</sup> January 2025.

Sd/-

**Member Secretary**



राष्ट्रीय राजधानी क्षेत्र योजना बोर्ड

(आवासन और शहरी कार्य मंत्रालय, भारत सरकार के तहत एक सांविधिक निकाय)

पहली मंजिल, कोर-4 बी, इंडिया हैबिटेड सेंटर, लोधी रोड, नई दिल्ली-110003

### कार्यात्मक योजनाओं की तैयारी के लिए निविदा आमंत्रण सूचना (एनआईटी)

राष्ट्रीय राजधानी क्षेत्र योजना बोर्ड (एनसीआरपीबी), नई दिल्ली राष्ट्रीय राजधानी क्षेत्र के लिए क्षेत्रीय योजना -2041 प्रस्तावों के अनुसार 'परिवहन, आर्थिक नोड और औद्योगिक गलियारा' पर कार्यात्मक योजना(ओं) की तैयारी से संबंधित कार्य करने के लिए राष्ट्रीय और अंतरराष्ट्रीय परामर्श संस्थाओं/संगठनों/संयुक्त उद्यमों/ संघों आदि से मुहरबंद निविदाएं आमंत्रित करता है। संदर्भ की शर्तों (टीओआर), योग्यता और मूल्यांकन मानदंड आदि का आरएफक्यू-सह-आरएफपी दस्तावेज़ एनसीआरपीबी की वेबसाइट यानी <http://ncrpb.nic.in/tenders> से ड्राफ्ट अनुबंध समझौते के साथ डाउनलोड किया जा सकता है। आरएफक्यू-सह-आरएफपी दस्तावेज़ की हार्डकॉपी एनसीआरपीबी के कार्यालय, प्रथम तल, कोर 4-बी, इंडिया हैबिटेड सेंटर, लोधी रोड, नई दिल्ली- 110003 से भी प्राप्त की जा सकती है। निविदाएं जमा करने की अंतिम तिथि 16<sup>th</sup> January 2025 है।

ह/-

**सदस्य सचिव**

**National Capital Region Planning Board**  
**(Ministry of Housing and Urban Affairs, Govt. of India)**  
**Core 4-B, First Floor, India Habitat Centre,**  
**Lodhi Road, New Delhi-110003**

**NOTICE INVITING TENDER**

National Capital Region Planning Board (NCRPB), New Delhi invites sealed bids from national and international consulting firms/ organizations/ joint ventures/ consortiums etc. for undertaking works relating to preparation of Functional Plan as per Draft/ Final Regional Plan-2041 for NCR for **Preparation of the Functional Plan for Transport, Economic Modes and Industrial Corridors in the NCR- 2047**

2. The Bid document containing the Terms of Reference (ToR), Details of Qualification and Evaluation Criteria, List of documents to be submitted etc. is enclosed. The same can also be downloaded from the website of NCRPB (<http://ncrpb.nic.in/tenders>)

3. The tender Schedule is given below:-

S.No.	Name of Activity	Date & Time
i)	Advertisement Publishing Date	04 <sup>th</sup> December 2024
ii)	Issue of Document (Document download start date)	07 <sup>th</sup> December 2024
iii)	Queries, Clarification, Comments/Suggestions. if any through e-mail (only in MS Word format)	16 <sup>th</sup> December 2024
iv)	Pre-Bid Conference Time & Venue	17 <sup>th</sup> December 2024 The venue and schedule with date and time to be specified on NCRPB website. May refer NCRPB website for update.
v)	Last date & time of submission of Bid	16 <sup>th</sup> January 2025 : 05.00 PM
vi)	Date & Time of Opening of Technical Bid	22 <sup>nd</sup> January 2025 : 11.00 AM.  The venue to be specified on NCRPB website. May refer NCRPB website for update.
vii)	Date, Time & Venue of presentations	Date, Time and Venue to be specified on NCRPB website.
viii)	Date & Time of Opening of Financial Bid	Date, Time and Venue to be specified on NCRPB website. May refer NCRPB website for update.
ix)	Validity of Bid	180 days from the last date of submission of Bid

4. Earned Money Deposit : Rs. 3,00,000/- (Rs. Three lakh) for Preparation of the Functional Plan for **Transport, Economic Modes and Industrial Corridors in the NCR- 2047.**

5. Micro and Small Enterprises registered with any body specified by the Ministry of Micro, Small and Medium Enterprises are exempted from submitting the Earned Money Deposit (EMD). However, the exemption and relaxation in EMD is subject to validity of their registration on the date of submission of their bid.

6. The prospective Bidding Entities are required to submit the following documents alongwith the bid:-

- (i) Proof of profit making - Board approved Audited Account Statement duly signed by CMD/ MD/CA/ Authorized signatory
- (ii) Proof of Earnest Money Deposit (EMD), as applicable
- (iii) Copy of the Letter of Award w.r.t Consultancy/ Assignments
- (iv) Letter of Priority, if applying for multiple Functional Plans
- (v) Brief Note/ Proposal including, Comments & Suggestions on ToR, Suggested Methodology, Overview of proposed Work Plan
- (vi) Technical Proposal with Standard Forms at Section-5 and Section-6
- (vii) Financial Proposal with Standard Forms at Section-7

Supporting Documents:

- (i) Copy of Certificate of incorporation/ partnership Deed of the Bidder Entity(ies)
- (ii) Agreement of Consortium, as applicable
- (iii) Copy of PAN No./ Service Tax Registration/GST Registration Certificate

7. The interested Bidding Entities may submit their bids in three separate sealed envelopes, namely, Qualification documents (Proof of Profit Making & EMD), Technical Bid and Financial Bids in the prescribed format along with all requisite documents to the officer below latest by 16.01.2025 (1700 hrs.).

Director (A&F),  
NCR Planning Board,  
Core 4-B, First Floor, India Habitat Centre,  
Lodhi Road, New Delhi-110003.

8. Queries, if any, may be referred in writing to Director (A&F), NCRPB at the above mentioned address or Telephone No. 011-24603138 or at E-mail-ncrpb-dr@nic.in.

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## Section-1: Background of National Capital Region

### 1.1 Introduction

- i) National Capital Region Planning Board (NCRPB) Act was enacted in 1985 by the Parliament of India with the concurrence of the constituent States to provide for the constitution of a Planning Board for the preparation of a plan for the development of the National Capital Region (NCR) and for coordinating and monitoring the implementation of such plan and for evolving harmonised policies for the control of land uses and development of infrastructure in the NCR so as to avoid any haphazard development of the Region.
- ii) The mandate of the NCRPB is to systematically develop India's NCR. The present NCR covers 55,083 Sq. Km. spanning 24 districts in three states (Haryana, Rajasthan, and Uttar Pradesh) and the National Capital Territory (NCT)-Delhi. The NCR's population was 58.16 million in 2011, as per the Census of India. The constituent areas of NCR are briefly described in **Attachment 1**.

NCT-Delhi and the three NCR states are of considerable importance to India's economy. According to the Oxford Economics data, 2016, Delhi Extended Urban Agglomeration (EUA)-comprising Delhi, Gurugram, Faridabad, Noida and Ghaziabad contributes 370 Billion USD GDP1 and has accordingly been recognized as the economic capital of India, overtaking Mumbai-EUA. Delhi-EUA, as the largest sub-economy in India contributes about 8% to National economy and attracts a large number of people from across the country. Therefore, contribution of the entire NCR to the national economy, would obviously be much higher. NCR is also one of the most vibrant global economic regions. Delhi NCR had attracted 20% of Foreign Direct Investment (FDI) in the country amounting to Rs. 2,49,023 Cr (USD 49,410 million) during 2010-15. This further increased to about 25% of FDI received by the country during April-December 2018-19.

### 1.2 Legal Framework for preparation of Functional Plans

#### Section 16 of NCRPB Act, 1985:

*"After the Regional Plan has come into operation the Board may prepare, with the assistance of the Committee, as many Functional Plans as may be necessary for proper guidance of the participating States and of the Union Territory."*

Accordingly, for guidance of the NCR participating States and Union Territory, NCR Planning Board has earlier prepared five functional plans<sup>2</sup> to elaborate one or more elements of the NCR Regional Plan 2021 (NCR RP 2021), notified in 2005.

## Section-2: Aims & Objectives

### 2.1 Intention

- (i) NCR Planning Board intends to prepare Functional Plan for NCR for the perspective year 2047 with respect to various aspects as per the requirement of its Draft/ Final Regional Plan-2041 proposals. The details are as given in the list below. Accordingly, the Office of NCR Planning Board, Core 4-B, First Floor, India Habitat Centre, Lodhi Road, New Delhi-110003 invites RFQ-cum-RFP document for Comprehensive Consultancy regarding preparation of preparation of the Functional Plan for Transport, Economic Modes and Industrial Corridors in the NCR- 2047.
- (ii) **Letter of Award (LoA) for work will be limited to maximum two Functional Plans for a single bidding entity for the Functional Plans being prepared by NCRPB under the provision of NCR-DRP/ RP 2041.** As per the priorities indicated in the submissions by the applicant/ bidding entity. Bidders, who have been considered for two Functional Plan proposals will not be considered for final selection for rest of the Functional Plan works, even if their bid is H1, as per criteria.

### 2.2 Need for Preparation of Functional Plan

- (i) As per the provisions under Section 7 (a) of the NCRPB Act, 1985, NCRPB has to prepare the Regional Plan (RP) and Functional Plans for NCR. The Board had prepared the RP-2001 and RP-2021 with the active participation of NCR constituent States of Haryana, Rajasthan, Uttar Pradesh and NCT-Delhi; concerned Central Ministries and experts, for promoting sustainable development in the region to improve the quality of life. Further, certain Functional Plans were also prepared for the guidance of the NCR participating States.
- (ii) NCRPB is in the process of finalising Regional Plan for horizon year 2041. The vision of the NCR Draft/ Final Regional Plan 2041 is – *“To provide a long term plan for development of the technology driven, future-ready National Capital Region of New Vibrant India, with citizen-centric infrastructure for building an economically prosperous region aligned with sustainable development goals.”* The draft Regional Plan-2041 is available on the website of NCRPB.
- (iii) NCR is expected to be the world’s most populous capital region by 2030–2031. There is a unique opportunity to undertake coordinated planning and informed investments in the NCR.

health, safety, disaster management and sports) that meets future need, climate change impacts, etc.

- (iv) The priority areas for the draft NCR RP-2041 are urban regeneration; future-ready infrastructure; multimodal transport and logistics; industries; micro, small, and medium-sized enterprises; economic corridors; tourism; MICE and leisure; farm incomes and traditional economy; skill development and employment; smart and digital NCR; and business climate improvement. RP-2041 proposals including transit oriented development (TOD); high floor area ratios (i.e., dense development); transferable development rights (TDR); vertical and brownfield redevelopment; mixed land use; and affordable rental housing, are transformative in nature, and will help meet the challenges that accompany rapid urbanization.
- (v) In addition to earlier Functional Plans (e.g., Transport, Ground Water Recharge, Drainage, Economic Development, and Micro and Household Enterprises) prepared as per RP-2021, it is now equally important to prepare Functional Plans for various aspects of the RP-2041. **It is expected that the Functional Plans will provide strategies, approaches, guiding principles, list of identified infrastructure projects with cost estimates, location specific proposals/ details, etc. in line with the overall policies and proposals of the DRP/ RP-2041.** It is expected that there will be a demonstration effect that leads to replication of development strategies in other urban areas in India, as well as potential downstream investment in socio-economic infrastructure in the NCR.
- (vi) Further, to catalyse growth, each of the Functional Plan must be inclusive and citizen centric. It is also important to address implementation of the Functional Plan, including inter-governmental collaboration and effective governance systems, as well as technological and smart-digital interventions.

### 2.3 Objectives

- (i) The objective of consulting assignment is to prepare Functional Plan for NCR. Functional Plan would be elaborations of different aspects of the RP-2041 that can then be implemented through projectization. The indicative guidance note on functional plan to be referred for overall assignment is in **Attachment 2**.
- (ii) The Functional Plan preparation exercise would include studies, collection of primary and secondary data for required sector, data analyses and interpolation, formulation of strategies, proposed interventions and identification of projects at regional, sub-regional and local level, as deemed fit, within the coverage and overall framework of NCR RP-2041. The Counter Magnet Areas (CMAs) may also be touched upon in the identified Functional Plan. The Functional Plan will include the identification of associated infrastructure and other investment projects for the NCR.
- (iii) The assistance that shall be required, broadly covers providing consulting services support by a reputed bidding entity, having it's registered office in India, for:
  - a) Preparation and finalization of Functional Plan including related studies. b) Exposure to national/ international good practices and global experiences.
  - c) Identifying investment requirements based on recommendations of Functional Plan.
  - d) Compilation of features of the Functional Plan as knowledge products.



## **2.4 Selection**

A consulting bidding entity will be selected as per the procedure described in the tender document which includes the following:

Section 1 - Background of National Capital Region

Section 2 - Aims & Objectives

Section 3 – Information to Bidding Entity

Section 4 - Terms of Reference (Sector/Functional Plan wise) - - Scope/HR

Section 5 - Qualification - Standard Forms Section

6- Technical Proposal - Standard Forms Section

7 - Financial Proposal - Standard Forms Section 8

- Standard Form of Contract

## Section-3: Information to Bidding Entities

### 3.1 Introduction

- (i) NCR Planning Board henceforth referred as 'Client' will award the assignment(s) in accordance with the method of selection indicated in **para 3.6**, for carrying out the assignment(s) for preparation of each of the Functional Plan, as listed above in **para 2.1 (i)**.
- (ii) The bidding entities are required to submit Qualification documents (Proof of Profit Making & EMD), Technical Bid and Financial Bid in separate sealed covers for Consulting Services required for the Assignment(s) named in **para 2.1(i)**. The proposal will form basis for evaluation and ultimately for a signed contract with the selected bidding entity.
- (iii) The Bidding entities should be profit making at least in 03 years of last 05 consecutive financial years ending FY 2023-24. Bidding entities should submit appropriate proof in this regard, failing which the proposal/bid could be treated as non-responsive and summarily rejected without opening Technical and Financial bids.
- (iv) The Bidding entities are required to submit their proposals written in English. Each page of the proposal should be signed and stamped.
- (v) The bidding entities should submit their bids **separately for each Functional Plan proposal**, in the prescribed format, in 03 separate sealed envelopes with regard to following:
  - a) Qualification documents (Proof of Profit Making & EMD)
  - b) Technical Proposal
  - c) Financial Proposal
- (vi) In case, a bidding entity is applying for more than one Functional Plan preparation Assignment, a clear mention of its priority amongst the proposals be mentioned as one bidding entity shall not be awarded more than two works (FPs) being prepared by NCRPB under the provision of NCR-DRP/ RP 2041.
- (vii) Bidding entities meeting the qualification criteria shall be invited for presentation of proposal as decided by NCRPB.
- (viii) Assignment(s) shall be implemented in accordance with the phases indicated in **para 3.2**. The performance of the contract under each phase must be to the client's satisfaction before work begins on the next phase.
- (ix) The bidding entities must familiarise themselves with local conditions, National and International best practices and take them into account in preparing their proposals.
- (x) Separate pre-bid conferences will be held for each functional plan assignment will be held as specified in the **para 3.8**. Bidding entities are encouraged to attend the conference before submitting their proposals.
- (xi) The Client will provide the data/ reports available with NCRPB. Collecting any other information relevant to the assignment will be the responsibility of the successful bidding entity. Client will provide the necessary introductory letter to get the information from other concerned agencies / departments, wherever applicable.
- (xii) The costs of preparing the proposal and of negotiating the Contract, including visit to the Client, etc. are not reimbursable and the Client will not accept any of the proposals submitted.

- (xiii) Client policy requires that the successful bidding entity provides professional, objective and impartial advice and at all times hold the Client's interests paramount, without any consideration for future work, and strictly avoid conflicts with other assignments or their own corporate interests. The successful bidding entity shall not be hired for any assignments that would be in conflict with their prior or current obligations to other clients, or that may place them in a position of not being able to carry out assignments in the best interests of the Client.
- (xiv) Any previous or ongoing participation in relation to the assignments by the bidding entity, its key professionals, staff, or its affiliates or associates under a contract with the Client may result in rejection of the proposal. The bidding entity should clarify their situation in that respect with the Client while preparing the proposal.
- (xv) Bidding entity shall not have been declared in-eligible for corrupt and fraudulent practices. Bidding entity shall be aware of the provisions of fraud and corruptions stated in the standard contract.
- (xvi) In JV/Consortium, the Indian Partner should be as a Lead Partner and it should have Registered Office in India. Such Lead Indian Partner should have at least 51% share in JV/Consortium.
- (xvii) Exiting from JV/Consortium may be allowed by client in only genuine, compelling reasons subject to prior written approval of client. The replacement with equal strength partner entity will be allowed, with the prior written approval of Client, failing which *Force Majeure* / termination will be applicable, as per the Contract.
- (xviii) No changes shall be made in the Key Personnel. In case it becomes incumbent to change any one of key personnel, the Consultants may do so only after providing as a replacement a person of equivalent or better qualifications with prior written approval of the replacement personnel by the MS-NCRPB.
- (xix) The successful bidding entity has to submit the Acceptance Letter within 07 days from the Letter of Award (LoA), else it could be deemed as rejection.
- (xx) The Contract has to be signed by the successful bidding entity within 07 days from the acceptance of the Assignment.
- (xxi) Performance guarantee @ 05% of contract value valid for period of 18 months beyond the approval of final report and six months beyond end of contract (including extended contract) which ever is later shall be submitted by successful bidding entity within 07 days of LoA acceptance or before contract signing, whichever is earlier, but in any case before signing of contract. In any case, performance guarantee has to be duly submitted before release of first stage of payment. The EMD of successful entity will thereafter be released by the client.
- (xxii) The successful entity will also be required to take out an insurance within 07 days of LOA acceptance or before contract signing whichever is earlier. This shall be in form of a Professional Liability Insurance, with a minimum coverage equal to total contract value for this consultancy and valid for 24 months after final approval of Report by Client. This shall be ensured in any case before release of first payment.

### **3.2 Deliverables and Time/ Payment Schedule**

The time-schedule for completion of various stages and payment schedule shall be as per the following:-

## Deliverables, Completion Time for Various Stages and Payment Schedule

S.N o.	Stage Report/ Deliverables	No. of copies	Schedule	Cumulative Time Period* (from date of LoA acceptance by the selected consultant)	Payment Schedule (% of total approved Cost)
1	Inception Report	15+ soft copy	03 weeks	03 weeks	10% will be released only after duly verifying the quality, usefulness, implementability and acceptance & approval of inception Report by NCRPB
2	Interim Report	15+ soft copy	12 weeks	15 weeks	15% will be released only after duly verifying the quality, usefulness, implementability and acceptance & approval of interim Report by NCRPB
3	Draft Final Report (including observations and suggestions)	15+ soft copy	11 weeks	26 weeks	20% will be released only after duly verifying the quality, usefulness, implementability and acceptance & approval of Draft Final Report by NCRPB
4	Final Report	30+ soft copy	08 weeks	34 weeks	25% will be released only after duly verifying the quality, usefulness, implementability and submission of Final Report
5	Approval of Report / Functional Plan	30 + soft copy	Subject to approval	Subject to approval	20% will be released only after duly verifying the quality, usefulness, implementability and acceptance & approval of Final Functional Plan.
6	Handholding Support for one year after approval of Functional Plan for onboarding the states for FP implementation				10% (2% each at the end of 1st, 2nd & 3rd quarter and remaining 4% at the end of 4th quarter) will be released as Final payment on satisfactory completion of handling support for one year"

Note:

- i) No advance payment for any purpose will be made to the successful bidding entity.
- ii) The successful bidding entity will be required to make one or multiple presentations (minimum up to 05 such presentations) before NCRPB and/or Planning Committee/ Project Sanctioning and Monitoring Group (PSMG)/ Board/ MoHUA/ NCR participating States/ any other relevant Ministry/ Department/ Agency, etc. within a week of submission or later of each of the above reports/ stage. The observations and suggestions conveyed by NCRPB will be incorporated by the successful bidding entity and revised Report to be submitted to NCRPB.
- iii) The payment will become due on approval of the stage report and on raising of bills/invoice by the successful bidding entity after the approval of the stage report. The processing time of the payment will be 90 days for final payment and 45 days for all other payments.
- iv) The successful bidding entity is also required to present the progress of work in the review meetings convened by the NCRPB and shall comply with the decisions taken in these meetings regarding the assignment.
- v) The successful bidding entity is also required to present the progress of work to the NCRPB, CRC, and/or Planning Committee/ PSMG/ Board and/or MoHUA as and when required and shall comply with the instructions regarding this assignment.
- vi) The successful bidding entity shall provide post submission services/support at no additional cost to NCRPB till the final approval of the Functional Plan by the NCRPB Board.
- vii) The successful bidding entity will work in close coordination with the designated personnel of NCRPB and its State representatives/ partner agencies; other Central Ministries/ Departments/ institutions such as, NITI Aayog, Town and Country Planning Organisation (TCPO), CPHEEO, CWC, TERI, Ministry of Jal Shakti, Upper Yamuna River Board, CGWB, IWAI, any other relevant bodies/organisations/departments/ministries etc.; and other stakeholders such as, non-government organization, resident welfare association, planning and infrastructure think-tanks, etc.; towards understanding the planning/ implementation/ management requirements and will make necessary efforts to bridge any data gaps, so as to ensure that quality outputs are produced that not only facilitate effective implementation of functional plan but also serve as an appropriate guidance for further planning (master plans/ development plans/ area specific or local area development plans, etc.) and downstream investment projects with costs estimated based on lifecycle cost approach.
- viii) Success fee for completion within stipulated time - 02% over and above the fee if completed to the acceptance of NCRPB, in 32 weeks instead of 34 weeks for the preparation of Functional Plan.
- ix) Payments will be made to the account of the successful bidder according to the payment schedule as stated above. First payment shall be released as per the stages, but only after execution of performance guarantee by the successful bidder. Subsequent payments shall be made in accordance with the prescribed conditions on submission of bills by the successful bidder.

### **3.3 Support by Successful Bidding Entity after approval of Functional Plan**

After approval of respective Functional Plan, the successful bidding entity will provide support and handholding for one year from the date of approval of respective Functional Plan for taking the plan further for on boarding the states and facilitating them for implementation of the Functional Plan which could be through Roadshows, workshops, discussions and making presentations to various agencies/ departments,

MoHUA, NCR participating States, etc., as and when required by the Client. The successful bidder can reduce its full time experts as per its comfort level in this period, subject to maintain quality of services to the client.

### **3.4 Procedure for Monitoring & Review of the Assignment**

- (i) The successful bidding entity work will be monitored and reviewed by NCRPB and/or its Committee.
- (ii) The successful bidding entity shall submit each of the above-mentioned deliverables as per the schedule mentioned above. This will be followed by a presentation to NCRPB within week of submission or later as required, wherein, NCRPB shall give its comments and suggestions in the form of feedback. Subsequently, the Consultant will incorporate all such comments and suggestions and submit the revised stage report with indexed Action Report (ATR) on comments of NCRPB.
- (iii) In case of delay in submission of the above mentioned deliverables as per given schedule, a penalty of 0.5% per week of delay subject to maximum of 10% of the payment due in this regard shall be levied.
- (iv) If the report submitted by the successful bidding entity is found deficient in the requisite quality, the approving authority of NCRPB can accept the report while considering other factors with a penalty of up to 10% of the payment due in this regard to the successful bidding entity. This shall be independent to penalty referred to in point 3.4 (iii) above.

### **3.5 RFQ-cum-RFP document**

- (i) The RFQ-cum-RFP document shall be downloaded from website of NCRPB/ CPPP/ GeM, free of cost. "Corrigendum, if any, would appear only on the above website and not to be published in any News Paper".
- (ii) The RFQ-cum-RFP document is not transferable to any other bidding entity.
- (iii) The intending bidding entities are advised to read the terms and conditions carefully. The bidder should only submit his tender if he considers himself eligible and he is in possession of all the original documents required.
- (iv) Information and Instructions for bidding entity, available on Website(s) shall form part of Tender Document.

### **3.6 Method of Selection**

- 3.6.1 For the proposed Functional Plan assignment(s), qualified and experienced reputed consulting entity is to be engaged on **Quality-and Cost-Based Selection (QCBS) method with quality-cost ratio of 90:10**. All bidding entities (leading partner in case of JV/Consortiums) need to submit the proof of being profit making in three of the last continuous five financial years (2019-20 to 2023-24) and the necessary EMDs as applicable need to be submitted along with the respective Functional Plan proposals, failing which the bidding entity will be considered rejected.
- 3.6.2 Technical Proposal will be evaluated for those bidding entities who submitted the proof of being profit making in three of the last successive five financial years (2019-20 to 2023-24) and the necessary EMDs as applicable along with the respective Functional Plan proposals. Financial bids will be opened only for those bidding entities who qualify technically i.e. for those who secure the **minimum Qualifying Marks 50% in the Technical Proposal**.
- 3.6.3 QCBS will be done separately for each of the Functional Plan/Assignment for Technically Qualified Proposals, based on Proposal Evaluation (para 3.14).
- 3.6.4 Bidding entity must submit all documents of Qualification, and Technical Proposal in pdf format [refer list of the documents given in the Notice Inviting Tender (NIT)].

### 3.6.6 Earnest Money Deposit (EMD)

Bidding entity (except Micro and Small Enterprise (MSE) as defined in MSE procurement policy by MSME, Registration Certificate of which needs to be enclosed with the Bid) shall submit Earnest Money Deposit (EMD) of Rs. 3,00,000/- (Rs. Three lakh) for Functional Plan for Transport, Economic Modes and Industrial Corridors in the NCR-2047, through RTGS/NEFT/DD. The Bank Account detail are as under:

**Beneficiary Name:** National Capital Region Planning Board

**Name of Bank & Branch Address:** State Bank of India, M-Block, Cannought Circus, New Delhi

**Bank Account Number:** 53048557394

**IFSC Code:** SBIN0030203

### 3.6.7 Refund/Adjustment of Earnest Money:

- a) Earnest money of the successful bidding entity shall be refunded on receipt of Performance Guarantee/Security.
- b) Earnest money of the unsuccessful bidding entities shall be refunded within 30 days from the receipt of acceptance of Letter of Award (LoA) by the successful bidding entity.
- c) No interest shall be paid on Earnest Money.
- d) Earnest Money shall stand forfeited -
  - If the bid is withdrawn at any time before the validity period, or
  - If the successful bidding entity fails to execute the contract and/or does not execute performance guarantee within the stipulated period.
  - During the bidding process or even after execution of agreement or till the completion of this assignment, if any information is found wrong/ manipulated/ hidden in the bid, the decision of NCRPB regarding forfeiture of the EMD and rejection of bid or termination of contract, shall be final and shall not be called upon question under any circumstances.

### 3.6.8 Proposals must be submitted not later than the following date and time:

**Date: 16<sup>th</sup> January 2025 Time : 1700 Hours. (any changes in the Draft Document or the schedule will be notified through NCRPB website).**

## 3.7 Validity of proposal

- 3.7.1 Proposals must remain valid **180** days after the due date of submission until validity extended by the bidding entity. During this period, the bidding entity is expected to keep available the key professionals, staff proposed for the Assignment. The Client will make the best effort to complete the tendering process within this period. If the Client wishes to extend the validity period of the proposals, the bidding entity may do so and those who do not agree have the right not to extend the validity of their proposals.

## 3.8 Pre-Bid Conference

- 3.8.1 The bidding entity shall submit the pre-bid queries to NCRPB office on or before the date mentioned in RFQ-cum-RFP Document. Bidding entity requiring specific points of clarification may communicate with NCRPB office before the date of pre-bid meeting using the following format:

Sr. No	RFQ-cum-RFP Document Reference (s) (section number page)	Content of RFQ-cum-RFP	Points of clarification

3.8.2 Clarifications of the RFP may be requested by the bidding entity in writing only, by email mentioned below on or before the deadline mentioned in the RFQ-cum-RFP document. Telephone calls will not be accepted for clarifying the queries. The address for requesting clarifications is:

**Address:** Director (A&F), NCRPB, Core 4-B, First Floor, India Habitat Centre, Lodhi Road, New Delhi- 110003, Phone:- 011-24603138, Email: [ncrpb-dr@nic.in](mailto:ncrpb-dr@nic.in)

- a) The bidding entity or its official representative will be invited to attend the pre-bid meeting.
  - b) The purpose of the meeting will be to provide bidding entities with information regarding the RFP/RFQ and the project requirements, and to provide each bidding entity with an opportunity to seek clarifications regarding all aspect of the RFQ-cum-RFP document and the Assignment.
  - c) Pre-bid queries received after due date & time shall not be accepted under any circumstances.
- 3.8.3 Separate pre-bid conferences will be held for each functional plan assignment as per the venue and schedule with date and time, as shall be mentioned/ updated on NCRPB website or online virtually. Bidding entities are encouraged to attend the conference before submitting their proposals.
- 3.8.4 At any time before the submission of Proposals, the Client may, for any reason, whether at its own initiative or in response to a clarification requested by an invited consulting bidding entity, modify the RFQ-cum-RFP documents by amendment. All the amendments made in the RFQ-cum-RFP document would be published on the NCRPB web-site as corrigendum.
- 3.8.5 The bidding entities are advised to regularly check the NCRPB web-site for updates. The Client may at its discretion extend the deadline for the submission of Proposals.
- 4.8.6 The costs of preparing the proposal, including visit to the Client, etc., are to be borne by the bidding entity.
- 3.8.7 Awarding the assignment(s) will be in accordance with policies of Government of India, including policies on corrupt and fraudulent practices.

### **3.9 Preparation of Proposal**

- 3.9.1 Bidding entities should be profit making in at least 03 years of last 05 consecutive financial years. Bidding entities should submit appropriate proof in this regard, failing which the proposal/bid will be rejected without opening Technical and Financial bids. Only those consultants whose responses are found satisfactory will be considered for evaluation of Technical Proposal.

#### **3.9.2 Technical Proposal**

Interested bidding entities shall submit information in the prescribed Qualification forms provided in **Section-5** of this document.

- a) In preparing the Technical Proposal, bidding entities are expected to examine the documents comprising this RFQ-cum-RFP in detail. Material deficiencies in providing the information requested may result in rejection of a Proposal.
- b) The Technical Proposal should be submitted in Standard Forms provided in



**Section-6** of this RFQ-cum-RFP document.

- c) The Technical Proposal should provide information using the Standard forms provided in **Section-6** of this document only, failing which the proposal may be summarily rejected.
- d) The Technical Proposal shall not include any financial information

### **3.9.3 Financial Proposal**

- a) The Financial Proposal should be submitted in Standard Forms provided in **Section-7** of this document only.
- b) The proposal should be complete, i.e., it should list all costs associated with the Assignment.
- c) The Financial Proposal should clearly identify, as a separate subset of total quoted amount, the applicable taxes (including GST, social security, etc.), duties, fees, levies, and other charges imposed under the applicable law. This shall be inclusive in the financial proposal.
- d) The values in financial proposal should be in Indian Rupees.

### **3.10. Submission, Receipt and Opening of Proposals**

3.10.1 Any corrections made on the original Proposal must be initialed by the person or persons who sign(s) the Proposals.

3.10.2 An authorized representative of the bidding entity shall initials all pages of the proposal. The representative's authorization is confirmed by a written power of attorney accompanying the Proposal.

3.10.3 Bid Offer can be submitted from the date of publication of NIT:

- a) The bidding entities are required to submit copies of all the documents mentioned in the RFQ-cum-RFP document.
- b) The bidding entities can submit documents in the form of PDF format.
- c) The bidding entities are required to quote strictly as per terms and conditions specifications, standards given in this RFQ-cum-RFP document and not to stipulate any deviations.
- d) After submission of the bid, the interested bidding entity can re-submit revised bid any number of times but before last time and date of submission of bid as notified.
- e) If the bidding entity is not found eligible after opening of tenders due to any reason, its tender shall become invalid.

### **3.11 Late Bids/ Tenders**

Bid Offers received after the due date and the specified time (including the extended period, if any) for any reason whatsoever, shall not be entertained.

### **3.12 Mode of Submission**

The Qualification details, Technical Proposal and Financial Proposal shall be submitted separately in print form, along with pdf version of Qualification details, and Technical Proposal in CD/DVD.

### **3.13 Proposal Format**

3.13.1 The bidding entity is expected to examine all the instructions, guidelines terms and conditions and formats in the RFQ-cum-RFP document. Failure to furnish all the necessary information as required by the RFQ-cum-RFP document on

submission of a proposal not substantially responsive to all the aspects of the bid offer shall be at bidders' own risk and may be liable for rejection. The Format of various pre-requisites are given in this RFQ-cum-RFP document.

3.13.2 The Bid Offers should be submitted separately on prescribed Formats containing the following **three parts**:

**a) Part-A (Section-5)**

(i) The interested bidding entity shall submit Board approved Profit and Loss Account Statement duly signed by CMD/MD/CA/Authorized signatory, regarding statement of profit making in at least 03 years of last five consecutive financial years. **Failing this the proposal/bid could be treated as non-responsive and summarily rejected without opening Technical and Financial bids**

(ii) The interested bidding entity (except Micro and Small Enterprise (MSE) as defined in MSE procurement policy by MSME, Registration Certificate of which needs to be enclosed with the Bid) shall submit copy of RTGS/ NEFT or DD for Earnest Money Deposit (EMD) of Rs. 3,00,000/- (Rs. Three lakh) for Functional Plan for Transport, Economic Modes and Industrial Corridors in the NCR-2047.

**b) Part-B (Technical Bid)**

The bidding entity shall submit Technical Bid containing the Technical Eligibility Details (as mentioned in **Section-6** RFQ-cum-RFP document).

**c) Part-C (Financial Bid)**

The bidding entity shall submit Financial Bid containing the Financial offers/Financial bid on the prescribed format given at **Section-7** quoting the price both in words and figures. In case of conflict between the figures and words the latter shall prevail.

3.13.3 After the deadline for submission of proposals the Qualification documents shall be opened immediately by the Bid Opening Committee as decided by the Competent Authority of NCRPB. The short-listed bidding entity may be called for power point presentation. The information will be evaluated. The Technical Proposal of only the qualifying Consultants will be opened after evaluation process.

3.13.4 The Financial Proposal shall remain sealed until technical capability statement of all submitted proposals is prepared and bidding entity short-listed. The bidding entity representative may opt to be present during the financial bid opening. The date will be conveyed to the bidding entity by the Client in advance.

### **3.14 Proposal Evaluation**

#### **3.14.1 General**

(i) Technical and Financial Bids shall be considered for evaluation for only those bidding entities which are profit making in at least 03 years of last five consecutive financial years. Bidding entities should submit appropriate proof in this regard (Board approved Profit and Loss Account Statement duly signed by CMD/ MD/CA/ Authorized

signatory), failing which the **proposal/bid will be rejected without opening Technical and Financial bids.**

- (ii) From the time the bids are opened to the time the contract is awarded, if any bidding entity wishes to contact the Client on any matter related to its proposal, it should do so in writing at the address indicated. Any effort by the bidding entity to influence the Client in the Client's proposal evaluation, proposal comparison or contract award decisions may result in the rejection of the bidding entity's proposal.

### **3.14.2 Bid Opening**

- a) A Bid Opening Committee as decided by the Competent Authority of NCRPB, will open the bids.
- b) NCRPB reserves the rights at all times to postpone or cancel a scheduled bid opening, which will be duly informed through NCRPB website.
- c) The selection of the bidding entity shall be made on **QCBS basis (90% Technical, 10% Financial weightage)**
- d) The bids shall be opened in three parts.
  - **Part-A: Qualification documents** - Board approved Profit and Loss Account Statement duly signed by CMD/ MD/CA/ Authorized signatory, regarding statement of profit making in at least 03 years of last five consecutive financial years and Earnest Money Deposit (EMD)
  - **Part-B: Technical Bid**
  - **Part-C: Financial Bid**
- e) The bidding entity or his authorized representatives who is present shall sign a register evidencing their attendance. In the event of the specified date of bid opening being declared a holiday, the Bids shall be opened at the same time and location on the next working day. However, if there is no representative of the bidder, NCRPB shall go ahead and open the bids.
- f) During bid opening preliminary scrutiny of the bid documents shall be made to determine whether they are complete whether required bid security has been furnished, whether the documents have been properly signed and whether the bids are generally in order. Bids not conforming to such preliminary requirements will be prima facie rejected.

### **3.14.3 Evaluation of Technical Proposals**

- (i) The Bid Opening Committee to be constituted by NCRPB will evaluate the bids on the basis of their Average Audited Turnover statements, Similar Assignments / Studies, Qualifications and competence of the key professional staff for the assignment, Brief Note/ Proposal, and Technical Presentation of Proposal of the Bidding Entity before the appropriate forum/ Committee (date of which will be intimated/updated on NCRPB website).
- (ii) Each proposal will be given a technical score. A proposal shall be rejected at this stage if it does not achieve the minimum technical score of 50%.
- (iii) **Evaluation Criteria for Technical Proposals is as under:**

Sl. No.	Qualifying Criteria	Documentary Proof	Maximum Marks
1	<b>Average Audited Turnover</b> of the Bidding Entity / Consortium Lead of at-least 03 of last five consecutive financial years should be minimum Rs. 10.00 Crore per year.	Board approved audited account statement duly signed by CMD/ MD/CA/ Authorized signatory	10
2	<b>Similar Assignments / Studies</b>	Copy of the Letter of Award (LoA)	
	(a1) 03 marks per Study/consultancy work related to Comprehensive transport studies (preparation of mobility plans and traffic plans etc) in last ten years for cities with population above 05 lakhs as per 2011 Census		09
	(a2) 02 marks per Study/Consultancy work related to economic Nodes (Economic Growth) in last ten years for cities with population above 05 lakhs as per 2011 Census		06
	(a3) 02 marks per Study /consultancy work related to Industrial Corridors in last ten years for cities with population above 05 lakhs as per 2011 Census		06
	(a4) 03 Plan formulation for cities with based on GIS above 10 lakhs of population as per 2011 Census (upto maximum 05 marks)		09
	<b>(b) Value of Consultancy Assignments (Maximum 05 consultancy)</b>		10
	<ul style="list-style-type: none"> <li>Below Rs. 25 lakh – (01 marks per Assignment)</li> </ul>		
	<ul style="list-style-type: none"> <li>More than Rs. 25 lakh upto Rs. 50 lakh – (1.5 marks per Assignment)</li> </ul>		
	<ul style="list-style-type: none"> <li>Above Rs. 50 lakh – (02 marks per Assignment)</li> </ul>		
3	<b>Qualifications and competence of the key professional staff for the assignment currently on the pay rolls of Company/JV partner (individual or combined roles) of the bidding entity</b> [refer Core Team Composition, qualification and weightage for key professionals of respective sector under Section-3 para 3.1 (b)]		25*
4	<b>Technical Presentation of Proposal of the Bidding Entity</b>		25
	<b>Total Score</b>		100

*\*Break up for respective sector provided in **Section-3** for each Assignment.*

Note:

- (i) The qualifying marks will be 50%. The bidding entities scoring 50% marks in Technical evaluation will be considered for QCBS.
- (ii) If Consultancy Assignments in similar sectors is done or if any Plan prepared in such sector for a State or geographical area comparable to NCR, preference or higher weightage (as bonus marks mentioned above) will be given for such bidding entities.
- (iii) The selected bidding entity has to ensure the deployment of proposed Key Professionals mentioned above for the completion of allocated assignment under this tender till the approval of final stage of this assignment.
- (iv) The proposed Key Professionals shall be in regular contact with NCRPB.
- (v) Any change in the proposed Key Professionals will require a written permission from the client.
- (vi) Failure to comply with above conditions may lead to penalty on selected bidding entity as mentioned in the "General Conditions of Contract" of this document.

#### **3.14.4 Public Opening and Evaluation of Financial Proposals**

- (i) After the evaluation of Technical Proposal is completed for the respective assignment, the Client shall inform and notify the date and time for opening of financial proposals to only those bidding entities, whose proposals have been short-listed for the same. The qualified bidder shall be termed as "**Technically Qualified bidder**".
- (ii) The Financial Proposals of Technically Qualified bidder shall be opened by NCRPB, in the presence of the representatives of bidding entities who choose to attend. The name of the bidding entity and the proposed amount shall be read aloud and recorded when the Financial Proposals are opened. The Client shall prepare minutes of the public opening.
- (iii) NCRPB will determine whether the Financial Proposals are complete, (i.e., whether they have costed all items of the corresponding Technical Proposals, if not the client will cost them and add their cost to the initial price), correct any computational errors, etc.
- (iv) The bidding entity who emerges H-1 (Highest Combined Score), based on QCBS for a particular assignment will be invited for signing a Contract Agreement for respective Functional Plan work, taking into consideration the priority submitted by the bidding entity and the condition prescribed in this RFQ-cum-RFP document in this regard.

### 3.15 Award of Contract

- 3.15.1 As NCR Delineation is in progress, in case of any change in the NCR area, the bid/payment of/to successful bidder will be revised proportionately/on pro-rata basis to the revised NCR area.
- 3.15.2 Some changes/modifications are also expected in the draft Regional Plan 2041 as published on NCRPB website. These changes, if available before finalising the bid, will be considered and communicated to the successful bidder during the exercise of preparation of Functional Plan.
- 3.15.3 The final approval on Draft Functional Plan prepared by the successful bidder will be accorded only after notification/publication of the final Regional Plan 2041 for NCR.
- 3.15.4 The contract will be awarded after the tendering process is complete. The Client will promptly notify other bidding entities that they were unsuccessful.
- 3.15.5 On award of the consultancy assignment(s), the successful bidding entities should be required to enter into an agreement with Client for the successful completion of the Consultancy as per the Terms and Reference, scope and any other condition set forth in this document including corrigendum if any.
- 3.15.6 The successful bidding entity shall begin carrying out the Services immediately on issuance of Letter of Award (LOA) by Client and acceptance of the same by the Consultant or on signing of this agreement by both the parties, whichever is earlier.
- 3.15.7 The Contract period including handholding period shall be One year from the date of the approval of the final report unless extended by the parties mutually.
- 3.15.8 Termination of the Contract will be in accordance with provisions of the Paras of **General/Special Conditions of Contract**. In case of dispute the matter will be referred to an arbitrator as specified by the Client. Place of arbitration will be Delhi in any case.
- 3.15.9 The Client will provide the relevant data/reports available with client. Collecting any other data relevant to the assignment will be the responsibility of the successful bidding entity. The Client will provide the necessary introductory letter to get information from other concerned agencies/departments, wherever applicable.
- 3.15.10 For a period of two years after the expiration of this Contract, the successful bidder shall not engage, and shall cause their Personnel as well as their Sub-consultants and their Personnel not to engage, in the activity of a purchaser (directly or indirectly) of the assets on which they advised the Client under this Contract, nor shall they engage in the activity of an adviser (directly or indirectly) of potential purchasers of such assets. The successful bidder also agree that their affiliates shall be disqualified for the same period of time from engaging in the said activities.
- 3.15.11 The Functional Plan should align with and complement the overall policies and proposals of the NCR Draft Regional Plan 2041. The final output of the Functional Plan, prepared by the selected consultant, should be updated, modified, and finalized in accordance with the published/notified Regional Plan 2041.
- 3.15.12 Non- Disclosure Agreement has to be signed by the selected consultant before signing the contract agreement including a mandatory two year cooling off period post the completion of the project, if consultant is intended to join foreign Missions/ firms/ think tanks.
- 3.15.13 The consultant should have a furnished office in Delhi/ NCR for the assignment duration for the consultant to carry-out assignment duties/ tasks/ activities and depute two experienced team members with atleast 7 years at NCRPB office throughout the agreement period to have frequent interactions to understand assignment requirements.
- 3.15.14 The consultant in consultation with the NCRPB shall also coordinate and collect data from participating state / relevant departments/ agencies, to meet necessary data

inputs for undertaking tasks under the scope of services of proposed consulting services package.

- 3.15.15 All project documentation will be in the English language, with translation Hindi languages if required.
- 3.15.16 The information/ data that is available with the NCRPB, will be provided to the consultant. The consultant will have to verify such information/ data, update, analyse, identify and fill gaps, if any. Apart from providing available information, the NCRPB Nodal Team will facilitate in the collection of information by corresponding with the relevant agencies and by convening meetings when necessary for the active collection of information.
- 3.15.17 undertake SWOT (strengths, weaknesses, opportunities, and threats) analysis for all sub sectors of Transport, Economic Modes and Industrial Corridors covering infrastructure, institutional capacity and future growth needs;
- 3.15.18 rationalize, streamline, and prioritize the investment projects for cost saving and improved synergy among them, and prepare investment plans, and implementation/ action plans with specific targets/ timelines;
- 3.15.19 identify potential financial sources, financial mechanisms for accessing resources, including public–private investments and development of proposals of international agencies financing;
- 3.15.20 conduct public consultation with key stakeholders including women groups, public representatives, resident welfare associations, if any, for the development of the integrated Functional Plan. Conduct at least two stakeholder workshops and several dialogues and record proceedings and develop recommendations and action points. All consultations will ensure proportional representation from disadvantaged and vulnerable sections, especially representation from slums.
- 3.15.21 any other relevant consulting services and studies required.

### **3.16 Confidentiality**

Information relating to evaluation of proposals and recommendations concerning awards shall not be disclosed to the bidding entities who submitted the proposals or to other persons not officially concerned with the process.

### **3.17 Other conditions of payment**

- 3.17.1 No separate TA/DA would be payable in addition to Consultancy fee.
- 3.17.2 The TDS and other taxes as applicable under the law would be deducted by the Client from the amount payable as Consultancy fee.
- 3.17.3 In case of delay in the conduct of consultancy services within the time fixed or in the event of repudiation of the contract, the Client reserves the right to recover liquidated damages, including administrative expenses, for breach of contract, a sum equivalent to 0.5% (half percent) of total contractual value, which the bidding entity has failed to deliver within the period fixed for delivery for each week or part thereof during which delivery is delayed, subject to an overall ceiling of 10% of the total contract price.
- 3.17.4 The successful bidder will have to provide a Performance Guarantee for 05% of the project value as per the following details:
  - a) The performance guarantee shall be valid for a period of 18 months beyond the approval of final report and six months beyond end of contract (including extended contract) whichever be later.
  - b) This shall have to be furnished by the successful bidding entity within 07 days of issue of LoA by client or within 07 days from the date of issue of a letter accepting the offer of the assignment whichever is earlier but in any case before signing of contract.

- c) The performance guarantee by successful bidding entity shall be submitted in the prescribed form Annexed herewith, from any scheduled commercial bank appearing in the second schedule of RBI incorporated in India.
- d) The Performance Guarantee Bond and/or any amendment thereto shall be executed on a stamped paper of requisite money value in accordance with Indian laws (format provided in contract).
- e) No other form of guarantee shall be acceptable.



## Section-4: Terms of Reference

### *I. Background*

During the last decade, there has been substantial change in socio-economic profile of the NCR. Consequently, traffic and travel characteristics have also undergone change over the years. These factors coupled with many changes in land use, demography, economy including industrialisation and mobility in the NCR need to be studied in depth for a proper appreciation of issues and concerns of the Region. By enhancing regional connectivity, promoting equitable economic & industrial opportunities the plan would ensure a cohesive development that benefits entire NCR, reduces pressure on overburdened urban centres, and positions the region as a competitive and sustainable economic & industrial powerhouse.

Based on the key principles of NCR-RP-2041, NCRPB proposes to develop functional plan covering different development sectors including **Transport, Economic Nodes and Industrial Corridors (hereinafter referred to as TENIC)**. The TENIC functional plan is to be compliant to the NCR-RP-2041 with a focus on Regional Connectivity, Economic Nodes and Industrial Corridors. The functional plan will also focus on futuristic technology applications.

The vision of the draft NCR-RP-2041 is *“To provide a long-term plan for the development of the Future Ready National Capital Region of new vibrant India, the rising global super power, with citizen centric infrastructure which is harmonious, environment friendly, smart-digital technology driven towards building an economically prosperous region, in tune with attainment of Sustainable Development Goals (SDGs).”* The constituent areas of NCR are briefly described in **Annexure 1**. Functional plans are elaborations of different aspects of the Regional Plan that can then be implemented through projectization. While, the planning exercise/ studies and analyses/ proposed interventions in preparation of functional plans are at a regional-level within the coverage of constituent states of NCR; study and interventions in the Counter Magnet Areas will not be a prominent focus in the scope of this functional plan but need not be ignored as well, as there need to be an interrelation between CMAs and NCR.

### *II. SCOPE OF THE SERVICES*

1. The consultant must ensure the incorporation of provisions outlined in Transport & Mobility (chapter-5) and Economy (Chapter-4) of the NCR-RP-2041. Relevant recommendations from proposals of all other chapters of the NCR-RP-2041 that impact transport, mobility, economic growth, economic nodes and industrial corridors to also be addressed into the Functional Plan (FP) appropriately.
2. In addition to above, the major focus areas of Functional Plan will be:
  - Transport Connectivity (MRTS, Road, Rail, Water and Air)
  - Integration of Landuse and Transport

- Citizen convenience in Transport and Mobility
- Multi Modal Integration Planning / Last Mile Connectivity including NMT
- Integrated Logistic Parks
- Electric mobility (e-mobility with associated charging infrastructure requirements)
- Economic Nodes and Industrial Corridors: Smart Growth Planning with enabling Infrastructure and Services.
- Transit-Oriented Development
- Industrial Development including for MSMEs
- Use of Technology like Apps etc.

### **3. SCOPE OF WORK:**

3.1 The scope of services will be covered in two parts

**Output 1:** Preparation of Functional Plan 2047 on Transport, Economic Growth and Economic Nodes and Industrial Corridor

**Output 2:** Handholding Support for one year after approval of Functional Plan

#### **3.2 Output 1:**

**3.2.1** The TENIC functional plan comprises developing a Regional Integrated Strategic Transport Network (RISTN) system aligned with Regional, Economic & Industrial development priorities and a prioritised shelf of projects with enabling policy, regulations and institutional framework. It should cover road, rail, water and air transport systems including Public Transport with Last Mile connectivity to encourage modal shift (from Cars/SUVs, 3-wheelers, 2-wheelers etc) for sustainable passenger and freight movements in NCR. The broad scope is as follows:

3.2.1.1 The Scope of Work will broadly cover advisory support for (i) preparing and finalizing the Functional Plan; (ii) providing exposure to national and global best practices, as appropriate, innovative solutions using high-level technologies, and global experiences; (iii) identifying further investment requirements based on recommendations in regional and subregional plans; and (iv) onboarding the participating states at each stage of the Functional Plan (FP) and handholding support for one year following the final approval of the FP.

3.2.1.2 This Functional Plan would include detailed assessment of respective/ concerned sector for its potential in NCR, and address/ include Strategies, Approaches, Guiding Principles, Project identification, locations, etc. as applicable. The Functional Plan has to be compliant and in sync with the overall policies and proposals of NCR Regional Plan 2041. The output of the Functional Plan shall have to be linked and finalised as per the published/notified Regional Plan-2041. All relevant provisions of all chapters of Draft/Final RP 2041 should be read, compiled & included in this study and further appropriate proposals for implementation of these provisions must also be included in the Functional Plan.

3.2.1.3 Assessment of existing and proposed industrial corridors, economic nodes and transport infrastructure to assess the level of utilization, potential and deficiencies in the present system. Determine strengthening requirement of existing & proposed network/corridors and requirement of new rail, road, water and air transport network in National Capital Region, Regional centres, Metro centres and among themselves.

- 3.2.1.4 To Study the existing regional road and rail network characteristic for passenger and goods traffic and discourage the transit of passengers and goods vehicles through the core area of congested urban settlements.
- 3.2.1.5 Assessment of Economic & Industrial development strategies/ proposals in the region;
- 3.2.1.6 Defining regional integrated strategic transport network or RISTN, including, a GIS-based platform and its assessment and projectization
- 3.2.1.7 Strategies to encourage Electric mobility and associated infrastructure
- 3.2.1.8 To select/ develop and use a regional level Transport Planning model appropriate to the conditions and planning needs of NCR and develop alternative transport strategies, select the appropriate one and recommend short, medium and long-term comprehensive transport strategy for NCR up to the year 2047.
- 3.2.1.9 prioritization framework with focus on multi-modal connectivity including last mile connectivity (especially, intermodal transfers) and new technologies and to propose Integrated Multi-modal Transportation System for NCR with a phased program of its implementation up to the year 2047
- 3.2.1.10 Strategies for development of future Economic Nodes & Industrial corridors in the region
- 3.2.1.11 Assessment of financial and institutional arrangements and development roadmap covering, institutional, financial and regulatory arrangements;
- 3.2.1.12 Identification of prioritized investment sub-projects with preparation of investment plan, and implementation/ action plan with specific targets/ timelines; and
- 3.2.1.13 Preliminary feasibility study, including, project structure in terms of finance and implementation.
- 3.2.1.14 The assignment emphasizes to undertake study of (a) NCR-RP-2041/ NCR-RP-2021 (as per applicable context), (b) relevant existing functional plans, (c) existing subregional plans, (d) outlines of functional plan, and (e) existing government provisions under relevant policies/ regulations/ incentive schemes, etc. on respective subject-matter coverage under NCR-RP-2041 and related sectoral elements of the proposed functional plan, etc.
- 3.2.1.15 Identify Transit Oriented Development (TOD) pockets and strategize to channelize future demographic and Economic & Industrial growth through greenfield and brownfield development / redevelopment along transit corridors. Developing a uniform enabling draft regulatory & institutional framework for TOD & Value Capture Financing (VCF) across the NCR
- 3.2.1.16 Determination of a list of identified infrastructure projects alongwith locations and resultant downstream investment project proposals with preliminary/ block-cost estimates (based on life-cycle cost approach) and investment planning for implementation of functional plan in a phased manner.
- 3.2.1.17 As part of overall focus of activities, the consultants team would duly support in undertaking stakeholder consultations, conducting exposure visits/ technical discourse/ awareness sessions towards capacity building, identifying and preparing downstream infrastructure investment projects, and to document the features of the functional plan prepared as a knowledge product to facilitate NCRPB in knowledge dissemination.
- 3.2.1.18 Develop the detailed framework and methodology for the functional plan based on the NCR-RP-2041 with special emphasis on the general policy and proposals.
- 3.2.1.19 Schedule of surveys needs to be provided to enable to client for effective site visits.
- 3.2.1.20 Data and support material required for the study should be compiled and analysed by the Consultant from reliable secondary sources and supplemented through primary surveys where necessary.
- 3.2.1.21 Consultant is required to identify all field surveys proposed by them to carry out, including their objectives, location, methodology and data output.
- 3.2.1.22 Consultant will be required to work in close coordination with the NCR Planning Board, NCR Cells of Delhi, Haryana, Rajasthan and Uttar Pradesh. The Consultant

- will need to contact officials of State and Central Govt. dealing with transport, industries and economic activities.
- 3.2.1.23 All data collected by the Consultant for the study shall be made available to the NCR Planning Board in proper organized format (in soft and hard form) and this data shall remain the property of the Board.
- 3.2.1.24 The data collected and the research results of the study shall not be divulged to other agencies without the explicit approval of the NCR Planning Board.
- 3.2.1.25 All reports along with appendices should be submitted in soft copy also. Reports should be in Microsoft Word format, maps and drawings should be in the compatible format of GIS facilities.
- 3.2.1.26 If the study is discontinued at any stage the consultant will be paid at pro-rata basis as per the total task completed by him. In case of dispute the matter will be referred to the arbitrator.
- 3.2.1.27 Maintain close coordination with NCRPB and NCR Cells of respective sub-regions and other stakeholders for TENIC;
- 3.2.1.28 Develop outlines of the Inception, Interim, Multi-Modal Planning including Last Mile Connectivity, Integrated Logistic Plan, Draft and Final Reports; assign work to respective specialists in the team; compile inputs; and prepare the Reports
- 3.2.1.29 The consultant will station atleast its two experts with 5-7 years of relevant experience at NCRPB office during the entire study duration.
- 3.2.1.30 Any other relevant consulting services tasks required under the study.

### **3.2.2 Data Collection –**

Selected consulting firm to collect map and data on demographic / population, urbanization, economic nodes, industrial corridors, transport infrastructure / transit connectivity, land use patterns in the NCR from various reports, consultations with stakeholders and SRPs/MP/DP/Project Plans etc to guide the study outcomes. Some of the important data collections items but not limited to are given below.

- 3.2.2.1 Regional Plan 2021 and 2041 with focus on transport, economy and industrial sectors.
- 3.2.2.2 Study the “Functional Plan on Transport for National Capital Region-2032” and establish the status of the recommendations/ proposals.
- 3.2.2.3 The consultants will also study/ review other data/ information provided by the NCRPB to analyse and identify any data gaps, and undertake necessary surveys/ investigations/ studies (including corridor and growth node studies) to ensure that a sufficient data repository is available to support the findings/ analyses/ understanding/ recommendations of the consultants when supporting the NCRPB in the preparation of functional plan
- 3.2.2.4 Secondary data collection and any necessary primary surveys/ investigations/ studies resulting in datasets/ baselines prepared with data disaggregated by age and gender (as best feasible/ applicable), analyses, reviews (of NCR-RP-2021/ NCR-RP-2041 along with cross sectoral reference of existing relevant functional plans/ sub-regional plans, concerned institutions, available data, etc.)/ findings/ gap assessments/ recommendations/ scaled maps/ findings/ gap assessments/ recommendations/ scaled maps, etc.;
- 3.2.2.5 Study of National Urban Transport Policy, National Road Transport Policy, National Rail Plan/policies and Global best practices of passengers and freight traffic movement.

- 3.2.2.6 Review and compilation of demographic data including population, density employment etc. Identify key employment hubs and sectors driving economic and Industrial growth.
- 3.2.2.7 Review of existing and proposed RRTS, DMRC, NMRC, GMRC, Indian Railways, Water, Air, Cargo movement network and any other studies to all modes of transport in the region. These studies to be compiled and reviewed to appreciate their relevance and significance on mobility and movement pattern, and impacts thereon Transport System, Economy, Industrial and Regional Environment. Assessment of existing / proposed of industrial clusters, manufacturing zones, and logistics hubs.
- 3.2.2.8 Consultant will carry out Traffic and Travel surveys on Expressways, National Highways, State Highways, Arterial/Major District Roads including bypasses of 1 lakh plus cities and major passenger and freight attraction/generation nodes, centres. Any additional surveys/locations as required should be added during the assignment by consultant.
- 3.2.2.9 Conduct required primary surveys for assessment of regional level road and rail-based travel demand of passenger and freight traffic within NCR and to & from NCR.
- 3.2.2.10 Drone Survey to be carried out at Expressways, National Highways, State Highways and at rail transit corridors (MRTS, RRTS, Indian Railways) with 2 Km on either side from edge of Right of Way (RoW) at appropriate resolution/scale.
- 3.2.2.11 Identification of missing links based on Satellite images, desk study, stakeholders' consultations, site visits etc.
- 3.2.2.12 Data base on settlements, size of population and employment including economic base by settlements to be compiled. The regional level trend of data base be prepared for assessing the disparities amongst the settlements. Traffic and network characteristics data base to be compiled for further use of trend analysis etc.
- 3.2.2.13 The information/ data that is available with the NCRPB, will be provided to the consultants. The consultant will have to verify such information/ data, update, analyze, identify and fill gaps, if any. Apart from providing available information, the NCRPB will facilitate in the collection of information by corresponding with the relevant agencies and by convening meetings when necessary for the active collection of information.
- 3.2.2.14 **Traffic & Travel Surveys (by videography and as per best practices)**
- 3.2.2.15 Identification of primary road network within NCR which include all Expressways, National Highways, State Highways and Arterial/Major District Roads including bypasses of 1 lakh plus cities etc. In urban context, Arterial roads need to be considered in Primary Road Network, if required Sub-arterial roads can also be taken into account. Coding and compilation of primary road network with attribute data like links lengths, widths, capacity, carriage-way, Right of way (RoW) etc. Speed studies have to be conducted to determine the Level of Service (LoS). Detail the regional road network system in terms of classification and standards.
- 3.2.2.16 Sufficient socio-economic and environment data need to be collected either from primary or from secondary sources to carry out this study.
- 3.2.2.17 There is a need to carry out a rapid assessment of daily/weekly/occasionally trips made by selected occupational groups (as given in National Industrial Classification) through a representative sample survey. This should be reflected in estimating base year and horizon year travel demand.

3.2.2.18 Preparation of necessary base maps and identifying key transport system elements, economic nodes & industrial corridors and up-dation of the same to be carried out by consultant.

3.2.2.19 Traffic & Travel Surveys includes:

- Classified Traffic Volume Survey (Mid-Block, Screen lines, Cordon)
- Roadside Passenger O-D Survey including willingness to shift (including Goods Vehicles)
- Suburban Commuter Rail Passenger Survey
- Bus Passenger Survey
- Taxi and Auto rickshaw surveys (IPT Surveys)
- Airport related traffic surveys
- Road network inventory
- Speed and delay surveys
- Terminal Surveys (Goods and Passenger)
- Surveys related to Rail based travel demand assessment (Goods and Passenger)
- Logistics Survey of existing status and potential of NCR
- Parking Surveys
- Taxation Surveys
- NMT survey including pedestrian, bicycle traffic and relevant infrastructure
- Industrial and Economic Surveys
- Drone Surveys
- Any other relevant survey

Any other data or survey as required for the preparation of the Functional Plan needs to be carried out/arranged by the Consultant as per global best practices.

3.2.2.20 Map all strategic economic, industrial and transport proposals and projects (whether implemented, under implementation or planned), such as nodes/ clusters, industrial clusters/ hubs, and logistics clusters/ facilities, new towns, metro networks, airports, logistic hubs, regional rapid transit system–RRTS, Ring Rail, Indian Railways, dedicated freight corridor–DFC, expressways, highways and inland waterways. Obtain funding status of proposals and projects;

3.2.2.21 Review the policy, regulatory and institutional framework governing the regional transport and economic development projects. Review of TOD and VCF policies, rules, etc. for NCR and other relevant cities/areas in and outside India.

### **3.2.3 Data Analysis, Travel Demand Model, Ridership Estimates, Identification of Economic nodes and Industrial corridors along with Public Transport Network for NCR**

3.2.3.1 Horizon year will be 2047.

3.2.3.2 Based on collected data consultant will conduct existing situation analysis by indicating existing trends, gaps and inefficiencies in population and economic activity distribution patterns, status of existing connectivity. Identification of high migration areas (including labour flow pattern) and growth potential among urban centres and connected suburbs & rural areas. Identification of growth centres and towns that can be developed along similar lines as counter-magnets in the NCR

3.2.3.3 Study the NCR-RP-2041 and establish the guiding principles for the development of the functional plan with focus on regional connectivity, industrial corridors and economic nodes. Prepare a vision, goals and objectives for the functional plan under the gambit of the NCR-RP-2041 in consultation with stakeholders. Also, based on the study of NCR-RP-2041/ NCR-RP-2021, the consultants should dwell on any relevant lessons learnt from NCR-RP-2021 implementation till the notification of NCR-RP-2041, citing any governance, growth management, and enforcement achievements, if any and as relevant, to

assess/ reconfirm as this should inform how Functional Plan should be prepared differently from previous plans.

- 3.2.3.4 Development of a traffic zone system for the study area taking into account the existing administrative, geographical, economic, and functional characteristics of various locations. Each city/town should be at the most one traffic zone.
- 3.2.3.5 Appreciation of road and rail network characteristics to be made including identification of bottlenecks, assessment of riding quality, encroachments, ribbon developments, speed characteristics, development of speed flow equations, utilization levels etc. The transport network supply level by type and its accessibility to the identified settlements should be made and deficiencies if any to be highlighted.
- 3.2.3.6 Appreciation of spatial and temporal variation in traffic flow pattern on the regional network systems. And the analysis of the traffic to be made w.r.t. size, composition, variation by time period and by location etc. Further, the trend of the traffic to be analysed and interpretation thereon regarding growth rate.
- 3.2.3.7 Appreciation of passenger and freight movement pattern; trip generation as per occupational passenger profiles; attraction levels by settlements and industrial centres; the traffic attracted and passing through region; the modal shares, trip lengths by mode and by passenger and commodity type; average payload estimates to be made. Detailed origin-destination matrix to be developed for passenger vehicles, goods vehicles etc.
- 3.2.3.8 Various towns of the NCR may become a bottleneck for smooth flow of regional traffic. The sufficient data collection and analysis thereon would be required to discourage the transit of passengers and goods vehicles through the core area of congested urban settlements by proposing bypasses.

#### 3.2.3.9 Development of Travel Demand Model;

- a. Consultant will select appropriate commercially available transportation modelling software package to suit the transportation planning requirement of NCR.
- b. Base year for the study will be 2025. The data collection and other parameters for the development of the model will conform to the Base Year 2025. Base year travel demand, road, rail and water based will be assessed. The secondary data analysis should be supplemented by primary survey, wherever necessary.
- c. The model should be calibrated for travel cost, travel time, speed and other factors. The model will require validation at regional level, keeping in view the different land use and transport characteristics of the region.
- d. Traffic assignment should be done for daily as well as both peak and off-peak hours. The model result should be sufficiently detailed for the identification of project benefits among different income groups and users by different modes. The model should be capable of evaluating landuse and/or transport developments. Consultants, after calibration, must demonstrate to NCRPB how reliable the model is in replicating the current modal splits and traffic flows at screen lines and cordons. The model should be capable of evaluating major landuse changes, proposal of transport projects / network changes such as addition or deletion of corridors, grade separators at junctions, widening of carriageways on a corridor basis, providing bus lanes, introduction of ATC system etc.
- e. The model should be able to provide integration of various modes (rail, road, water and air based).

- f. It should also be able to reflect the scenario of transport network due to alternative sites of various economic and industrial activities.
  - g. The model should policy sensitive and be able to estimate the future demand of vehicles, passengers and goods by type on the regional transport systems (rail, road, water & air) under alternate NCR development policies and programmes.
- 3.2.3.10 Based on the review of “Functional Plan on Transport for National Capital Region-2032”. Analyse key issues and constraints in the implementation of the recommendations/ proposals, if any. Study other documents relevant to the development of transport, industrial corridors and economic nodes, such as, plans (city master plans, comprehensive mobility plans–CMPs, State sector plans, Railway plans), policies (National Transport Policy, National TOD Policy), and other related documents. Summarize the recommendations, especially, projects, taking into cognisance the date of the data used in each of the document. Also refer to plans like Sub-Regional Plan/Master/Development/ Transport/Industry/Economy etc. prepared by NCR states/Authorities/departments/ULBs. The projects which are not implemented as per 2032 Functional Plan, the same are to be subsumed/ incorporated in this Functional Plan.
- 3.2.3.11 Assessment of planned and proposed economic nodes, investment zones, integrated townships and industrial corridors. Its strategic evaluation with regional growth priorities and connectivity infrastructure.
- 3.2.3.12 The functional plan is to be in sync with the Policy Zones & Landuse (NCR-RP-2041, Chapter 3) with the focus on the Central National Capital Region (CNCR) and Highway Corridor Zones (HCZ) and Transit-Oriented Development (TOD).
- 3.2.3.13 Integration of Landuse and Transport
- 3.2.3.14 Identify existing and future cities / towns that may be developed engines of growth creating integrated economic & industrial development in region
- 3.2.3.15 Summarize the recommendations from the NCR-RP-2041 and identify the executing agency/ agencies and next steps towards implementation of the recommendations. All recommendations in the Transport & Mobility (chapter-5) and Economy (Chapter-4) of the NCR-RP-2041 to be covered. Relevant recommendations from other chapters of the NCR-RP-2041 that impact economic nodes and industrial corridors to also be covered.
- 3.2.3.16 Prepare an overview of the regional economy, including, identification of contiguous economic sub-regions within the NCR. Align these regions with the policy zones identified in the NCR-RP-2041;
- 3.2.3.17 Provide strategies (planning, policy, institutional) for economic growth of each identified sub-region;
- 3.2.3.18 Issues regarding the network, demand, operating system’s role and performance etc. be highlighted from the above analysis. The adequacy of the existing network to be evaluated and shortcomings need to be highlighted. This would enable in formulating strategies for development of alternative transport network scenarios.
- 3.2.3.19 Interchanges for passenger and freight traffic would be developed at the integration of Expressways, National Highways and Rail transit corridors in NCR. Therefore, the planning of passenger (rail and bus terminals) and goods terminals (freight stations) at these locations have to be carried out.
- 3.2.3.20 Assess the urban development pattern and estimate future population and economic development activities in cities and regions for horizon years in study Area with expected future development of cities, regional & metro centres,



large investment regions, industrial areas, towns that may be developed as engines of growth creating integrated economic & industrial development in region

- 3.2.3.21 Public Transport System - Consultant need to prepare an Integrated Multi-modal Transportation System for NCR with proper interchange facility for various demand levels considering proposed land use of the region. Ridership estimates on all the existing and proposed Major Travel Corridors and public transport network (Rail & Road) in NCR along with estimated cost. The feeder system to ensure last mile connectivity and should also be taken care of while formulating any strategy. This will ensure the desired modal shift to public transit systems.
- 3.2.3.22 Studies and detailing at functional plan-level for proposed land use (including mixed-uses with due consideration to use compatibility, vertical brownfield development, etc.) integrated with multi-modal transportation system/ mobility/ logistics in conjunction with studies for economic corridors and growth nodes (industrial corridors, urban growth centres, etc.) conceptualization and planning in NCR with enabling policy/ vision/ strategy/ regulatory level recommendations.
- 3.2.3.23 Based on analysis identify upcoming new economic/industrial development clusters where high growth is expected and categorise and recommend potential areas of new economic/industrial centres in term of high, medium low categorization.
- 3.2.3.24 Develop a transit connectivity network connecting different hierarchy of cities and regional/metro centres supporting economic and industrial activities. This may include recommendations of MRTS, Public Transport, IPT, NMT for last mile connectivity to serve various high growth cities, industrial clusters and economic nodes. This should be planned in a manner that the public transport plan should in sync with the ongoing development and industrial growth plans forming a part of the NCR Regional Plan and Plans of constituent Sub-Region Authorities. It should also support sustainable and efficient urban & regional development leading to decongestion, decentralization of economic activities and reduced carbon emissions in the region. Additionally, the transit nodes to act as multi-modal transport hubs and vibrant business and commercial centres.
- 3.2.3.25 Planning of a water transport system to Hindon Canal through Hindon River to Yamuna River passing through new Ashok Nagar RRTS station, for carrying goods and passengers' transportation.
- 3.2.3.26 Identification and consolidation of factors which support primacy of Delhi -NCR over other regions of the Country in Economic Growth of GDP. Revival of industrial estates and identification of new industrial/economic growth locations and nodes.
- 3.2.3.27 Identify opportunities of development around major transit nodes in NCR based on Transit Connectivity Plan and Economic and Industrial growth nodes to support its financial viability.
- 3.2.3.28 Prepare a regional integrated strategic transport network or RISTN that includes economic nodes, industrial corridors, logistic hubs, new towns, and regional transport linkages, not only, in the NCR (for economic sub-regions), but also, beyond the NCR
- 3.2.3.29 The RISTN should consider proposals from NCR-RP-2041, Functional Plan on Transport for National Capital Region-2032, and any other plans and proposals from various agencies such as, NHAI, Indian Railways, DMRC, RRTS, GMRC, NMRC and of Delhi Mumbai Industrial Corridor-DMIC/ DFC and proposals of participating states.

- 3.2.3.30 Determine the current status of each component of the RISTN, identify the executing agency/ agencies and next steps towards development of the component. Identify the component that is part of the NCR-RP-2041 recommendations and the ones through other reports/ documents/ reviews;
- 3.2.3.31 Develop GIS-based database for the RISTN;
- 3.2.3.32 Prepare broad guidelines/ strategies on Digital/ Smart elements for transport sector to provide guidance to be followed-up separately in later functional plan on Smart and Digital NCR;
- 3.2.3.33 Economic base of settlements including the industrial base and employment levels by sectors to be studied. Connectivity to be proposed for new townships being developed in NCR. The strengthening and upgrading rail, road, water and air network for passenger & Freight should also be taken care in the study area.
- 3.2.3.34 The travel demand forecasting in terms of trip production and attraction for passenger trips and goods trips generation by settlements for growth and landuse plan developed to be made by using the travel demand.
- 3.2.3.35 The consultants are required to forecast road and rail-based travel demand for the horizon years on the existing transport network and all committed transport investments, under the assumed alternative income, population, and land use growth scenarios.
- 3.2.3.36 Integrated Multi-modal Transportation System for NCR with proper interchange facility for various demand levels considering proposed landuse of the region with the alternative transport network system (road and rail based) to be evolved to meet the forecasted travel needs of the region. The necessary computational and processing steps to be followed to derive network loading and evaluation of assessment and benefits thereon.
- 3.2.3.37 Conduct stakeholder consultations to assess the RISTN and ascertain priorities
- 3.2.3.38 create a multi-criteria prioritization framework on basis of the NCR-RP-2041 recommendations with a focus on multi-modal connectivity (especially, intermodal transfers, development of TODs and new technologies along with economic impacts and implications on value capture
- 3.2.3.39 use the prioritization framework and stakeholder consultation to identify sub-projects for investment in a synergized and phased manner, and prepare investment plan, and implementation/ action plan with specific targets/ timelines
- 3.2.3.40 suggest enabling policy, regulatory and institutional reforms supporting implementation of the identified projects in the RISTN
- 3.2.3.41 Consultant will suggest the projects to be taken up in various phases as indicated above. It will include the short-, medium- and long-term projects. The evaluation should be comprehensive, on the basis of four major criteria: (i) economically viable; (ii) socially acceptable; (iii) environmentally sustainable; and (iv) financially feasible.
- 3.2.3.42 Conduct preliminary feasibility study of identified sub-projects, based on secondary and primary surveys, for initial phase to estimate cost and structure the

projects in terms of implementation format (public–private partnership or PPP/ Non-PPP), stakeholder roles, phasing and financing.

3.2.3.43 Environmental viability and Social Acceptability- Study should also address to social and environmental impacts with mitigation measures.

3.2.3.44 Economic and Financial analysis- Recommend fiscal incentives (for example - tax breaks, subsidies, subventions, guarantees, low interest rate, housing incentives, mixed used development near transit corridors, etc.), ease of doing business reforms including stakeholders responsible to undertake it and action plan to achieve holistic development of NCR.

- a. Techno-Economic Feasibility Report to be prepared on the basis of costs for all the identified projects along with projected analysis of revenues (based on proper cost benefit analysis) with a view to giving annual IRR and identification of viability gap and appropriate ways of overcoming it.
- b. Economic evaluation of benefits for each alternative transport network under alternative growth scenarios to be made. Amongst the growth scenarios most realistic scenario and transport network thereon should be recommended for NCR. The need for fixed elements of transport system like passenger and freight terminal should also be made
- c. Consultants are expected to establish a procedure for economic evaluation and the identification of a phased investment program. The procedure should be designed to make full use of the travel demand model outputs (e.g. traffic volumes and speeds by mode, vehicle type, traffic direction, and time of day on individual links; and travel time, distance, and out-of-pocket costs for vehicle trips between any O-D pair) as inputs for economic evaluation. It should follow the cost benefit analysis/economic feasibility to be expressed in terms of expected Net Present Value (NPV), Economic Internal Rate of Return (EIRR) and Financial Internal Rate of Return (FIRR) for the projects.
- d. Study should also address to alternative models/institutional arrangements for the implementation of Multi-modal Transportation System with appropriate feeder services from hinterland to optimize its utilization. It should also address to the financial model for the implementation, regulation of operations and role & responsibilities of the various authorities/agencies/departments.

3.2.3.45 Identify potential financial sources, financial mechanisms for accessing resources, including public–private investments and development of proposals for multilateral funding agencies.

3.2.3.46 Develop terms of references (TORs) for selection of consultant(s) for conducting a detailed feasibility study of the identified sub-projects, and prepare draft TORs for carrying-out detailed project report or DPR for sub-projects by client.

### ***3.2.4 Other Study Reports and Submission Schedule***

3.2.4.1 The assignment duration for consulting services as stated above is 48 weeks (presently envisaged). The consulting firm's inputs will be discussed during the inception phase after its mobilization.

3.2.4.2 The consulting firm will have to report to NCRPB for coordination, submission and review of deliverables meeting the desired technical quality assurance requirements, and progress monitoring of deliverables, to the satisfaction of the Competent Authority

3.2.4.3 For day-to-day basis of coordination and reporting, the selected consultant would report to the appointed officer by the Competent Authority. The Team Leader/ Deputy Team

Leader(s) are responsible for delivery of all functional planning outputs and capacity building activities, and corresponding reports and documentations.

3.2.4.4 Appropriate number of papers on Policy Briefs and executive summary. Report on Multi-modal Integration including last mile connectivity and Integrated Logistic Plan – Sub-region wise components be flagged appropriately in the Plan/Reports. Any other relevant assessment and reporting as required during the Interim Stage / discussions at draft final stage shall be submitted with Draft Final Report

3.2.4.5 The consultant is required to submit all data and data analysis and others reports on above all preceding sections of this document and these are to be submitted as part of following reports/ documentations NCRPB. All reports/ documentations should be submitted as required below (Table 1), in an electronic and hard copy format to NCRPB.

3.2.4.6 The time-schedule for completion of various stages and payment schedule shall be as per the following: -

**1. Table-1 Deliverables, Completion Time for Various Stages and Payment Schedule**

<b>Phases</b>	<b>Stage Report/ Deliverables</b>	<b>No. of Copies</b>	<b>Submission Schedule</b>	<b>Cumulative Time Period* (From date of LoA acceptance by the successful Bidding Entity)</b>	<b>Payment Schedule (% of total approved Cost)</b>
1	Inception Report	15 Hard copies + soft copy	06 weeks	06 weeks	10% will be released only after duly verifying the quality, usefulness, implementability and acceptance & approval of inception Report by NCRPB
2	Interim Report	15 Hard copies + soft copy	14 weeks	20 weeks	15% will be released only after duly verifying the quality, usefulness, implementability and acceptance & approval of Report by NCRPB
3	Draft Final Report including Separate Multi- Modal Integration Planning Report with Executive Summary (including	15 Hard copies + soft copy	18 weeks	38 weeks	20% will be released only after duly verifying the quality, usefulness, implementability and acceptance & approval of Report by NCRPB

<b>Phases</b>	<b>Stage Report/ Deliverables</b>	<b>No. of Copies</b>	<b>Submission Schedule</b>	<b>Cumulative Time Period* (From date of LoA acceptance by the successful Bidding Entity)</b>	<b>Payment Schedule (% of total approved Cost)</b>
	observations and suggestions)				
4	Final Report including Separate Multi- Modal Integration Planning Report with Executive Summary	30 Hard copies + soft copy	10 weeks	48 weeks	25% will be released only after duly verifying the quality, usefulness, implementability and acceptance & approval of Report by NCRPB
5	Approval of Report / Functional Plan	30 Hard Copies + soft copy	Subject to approval	Subject to approval	20% will be released only after duly verifying the quality, usefulness, implementability and acceptance & approval of Report by NCRPB
6	Handholding Support for one year after approval of Functional Plan for onboarding the states for FP implementation				10% (2% each at the end of 1st, 2nd & 3rd quarter and remaining 4% at the end of 4th quarter) will be released as Final payment on satisfactory completion of handling support for one year"

Note:

- i) No advance payment for any purpose will be made to the successful bidding entity.
- ii) The successful bidding entity will be required to make one or multiple presentations (minimum up to 05 such presentations) before NCRPB and/or Consultancy Review Committee (CRC), Planning Committee/ Project Sanctioning and Monitoring Group (PSMG)/ Board/ MoHUA/ NCR participating States/ any other relevant Ministry/ Department/ Agency, etc. within a week of submission or later of each of the above reports/ stage. The observations and suggestions conveyed by NCRPB will be incorporated by the successful bidding entity and revised Report to be submitted to NCRPB.
- iii) The payment will become due on approval of the stage report and on raising of bills/invoice by the successful bidding entity after the approval of the stage report. The processing time of the payment will be 90 days for final payment and 45 days for all other payments.
- iv) The successful bidding entity is also required to present the progress of work in

the review meetings convened by the NCRPB and shall comply with the decisions taken in these meetings regarding the assignment.

- v) The successful bidding entity is also required to present the progress of work to the NCRPB and/or CRC, Planning Committee/ PSMG/ Board and/or MoHUA as and when required and shall comply with the instructions regarding this assignment.
- vi) The successful bidding entity shall provide post submission services/support at no additional cost to NCRPB till the final approval of the Functional Plan by the NCRPB/ Board.
- vii) The successful bidding entity will work in close coordination with the designated personnel of NCRPB and its State representatives/ partner agencies; other Central Ministries/ Departments/ institutions such as, NITI Aayog, Town and Country Planning Organisation (TCPO), Transport Departments, DMRC, National Capital Region Transport Corporation–NCRTC, Indian Railways, Dept of Economic Affairs, Department of Industries etc ; and other stakeholders such as, non- government organization, resident welfare association, planning and infrastructure think-tanks, etc.; towards understanding the planning/ implementation/ management requirements and will make necessary efforts to bridge any data gaps, so as to ensure that quality outputs are produced that not only facilitate effective implementation of functional plan but also serve as an appropriate guidance for further planning (SRPs, CMPs, Fesibility/DPRs /master plans/ development plans/ area specific or local area development plans, etc.) and downstream investment projects with costs estimated based on lifecycle cost approach.
- viii) Success fee for completion within stipulated time - 02% over and above the fee if completed to the acceptance of NCRPB, in 44 weeks instead of 48 weeks.
- ix) Payments will be made to the account of the successful bidder according to the payment schedule as stated above. First payment shall be released as per the stages, but only after execution of performance guarantee by the successful bidder. Subsequent payments shall be made in accordance with the prescribed conditions on submission of bills by the successful bidder.

**3.2.5. Output 2:** Handholding Support for one year after approval of Functional Plan for onboarding the states for implementation of FP. The scope of services of the consulting firm under output 2 includes support and handholding for one year from the date of approval of Functional Plan for taking the plan further for onboarding the states and facilitating them for implementation of the Functional Plan which could be through roadshows, workshops, discussions and making presentations to various agencies/ departments, MoHUA, NCR participating States, etc., and or any other form of assistance as may be thought fit by client as and when required by the NCRPB. The Consultant can reduce its full- time experts as per its comfort level in this period, subject to maintaining quality of services.

### ***3.2.6 Required Expertise***

The following key professional would be required to be mobilized by the bidding entity. The Core Team Composition of bidding entity for the assignment is Table 2

**Table 2: Qualifications and Responsibilities of Key Experts**

<b>S. No.</b>	<b>Expertise</b>	<b>Expertise (Qualifications and Experience)</b>	<b>Broad Area of required/specific Expertise</b>
1.	Transport Planner / Engineer (Team Leader)	Graduate in Civil Engineering and Post graduate in Transport planning/ Transport Engineering with 20 years of overall experience and 15 years of specific experience in urban transport sector / economic corridor and growth nodes planning/ development projects/ regional connectivity/ mobility/ logistics considerations.	<ul style="list-style-type: none"> <li>• Overall Project Management</li> <li>• Experience on projects /studies on regional, urban transport (MRTS, road, rail, water and air), planning of freight, economic nodes and industrial corridors</li> <li>• undertake detailed assessment of the potential for regional connectivity and transport infrastructure provision (rail/roads/ highways, and logistics integration),</li> <li>• Multi-modal integration Planning</li> </ul>
2.	Transport Planner cum Multi-Modal Expert (Deputy Team Leader)	Graduate in Civil Engineering / Architecture and Post graduate in Transport Engineering/ /transport planning/ urban and regional planning/ development studies/ transport economics/ urban economics or equivalent; and preferably with 15 years of overall experience and 12 years of specific experience at transport planning (road-/ rail-/ water / aviation-based connectivity, Multi-modal connectivity/ logistics) projects.	<ul style="list-style-type: none"> <li>• Assist Team Leader in project execution</li> <li>• Experience on projects /studies on regional, urban transport (MRTS, road, rail, water and air), planning of freight, economic nodes and industrial corridors</li> <li>• Multi-modal integration Planning</li> <li>• undertake detailed assessment of the potential for regional connectivity and transport infrastructure provision (roads/ highways, and logistics integration), including assisting in necessary surveys/ studies for traffic and travel characteristics, traffic forecast, demand analysis/ modelling, impact assessments on traffic capacity and surrounding land use, impact of disruptive trends on traffic, e-mobility, logistics, etc.</li> </ul>
3.	MRT/Bus System Expert	Graduate in Electrical Engineering with 15 years of overall experience and 12 years of specific experience in MRT/Bus system planning and design.	<ul style="list-style-type: none"> <li>• Planning and design of alternative MRT/Bus and Public transit systems.</li> </ul>

<b>S. No.</b>	<b>Expertise</b>	<b>Expertise (Qualifications and Experience)</b>	<b>Broad Area of required/specific Expertise</b>
4.	Highway Engineer	Graduate in Civil Engineering and Master's degree in highway engineering with 15 years of overall experience and 12 years of specific experience in transport planning/ highway & urban roads projects etc.	<ul style="list-style-type: none"> <li>• Experience in planning, design and costing of road and highway projects</li> </ul>
5.	Public Transport Expert cum Transportation/ Travel Demand Modeller	Graduate in Civil Engineering / Architecture and Master's degree in transport planning/ transportation engineering with 15 years of overall experience and 12 years of specific experience	<ul style="list-style-type: none"> <li>• Experience in Planning and Design of Public Transport network of various modes for million plus cities</li> <li>• Transportation / Travel Demand Modelling in Regional and Urban transport and infra projects of road, rail, water, air and Freight</li> </ul>
6.	Freight Transport Expert	Master's degree in Railway Engineering/ Logistics or equivalent; and preferably with 12 years of overall experience and 8–10 years of specific experience in planning/ design/ implementation of rail, road transport/ rail/road/air based cargo movement .	<ul style="list-style-type: none"> <li>• Experience in freight / logistic management and planning and development of such Hubs at urban / regional/national/global level</li> </ul>
7.	Alignment and Costing Expert	Graduate in Civil Engineering with 15 years of overall experience and 12 years of specific experience	<ul style="list-style-type: none"> <li>• Rail / Road based Alignment Planning and Design and</li> <li>• Cost estimates of the identified transport and other infra projects</li> </ul>
8.	Urban/ Land Use Planner-TOD & Value Capture	Master's degree in urban planning/ transport planning/ urban and regional planning/ development studies/ or equivalent; and with 10 years of overall experience and 7 years of specific experience in land use planning, knowledge of the institutional/ governance setup and financial frameworks, and the rules & regulations (including Development Control	<ul style="list-style-type: none"> <li>• Urban/regional development studies, TOD, VCF, DCR etc, Institutional/ governance setup and financial frameworks, Land use planning, Land Pooling and GIS</li> </ul>



S. No.	Expertise	Expertise (Qualifications and Experience)	Broad Area of required/specific Expertise
		Regulations, Land Pooling/ Land Readjustment, TOD, value capture financing, etc.), in corridor planning projects.	
9.	E-Mobility Expert	Master's degree or Professional License in electrical mobility/ electrical engineering/ automotive engineering/ environmental engineering/ energy economics or equivalent; and with 10 years of overall experience and a specific experience of 5–7 years with electric/non-fossil fuel mobility planning.	<ul style="list-style-type: none"> <li>• Electrical vehicles (EVs)/ infrastructure design/ implementation and e-mobility transition activities, including policy, infrastructure, financing, and technology aspects etc</li> </ul>
10.	Economic & Financial /PPP Expert	MBA (Finance/ Public Policy)/ Chartered Accountant/ or Master's degree in urban planning/ transport planning/ urban and regional planning/ transport economics/ urban economics with minimum 15 years of overall experience and specific experience of earlier in PPP, integrated logistic parks urban and regional transport infrastructure projects	<ul style="list-style-type: none"> <li>• Economic evaluation of benefits for each alternative transport network, Economic and industrial centres under alternative growth scenarios</li> <li>• Cost benefit analysis/economic feasibility to be expressed in terms of expected Net Present Value (NPV), Economic Internal Rate of Return (EIRR) and Financial Internal Rate of Return (FIRR) for the identified projects.</li> <li>• Identification of projects with private participation.</li> </ul>
11.	Economist/ Economic Nodes and Industrial Corridor Development Expert	Master's degree in economics/ urban economics / transport economics or equivalent; and preferably with 10 years of general experience and 5-7 years of specific experience in economic corridor planning.	<ul style="list-style-type: none"> <li>• The expert will support in studies of economic corridors and growth nodes (industrial corridors, urban growth centers, etc.) in NCR, with consideration to aspects of competitiveness/ business climate improvement/ prosperity/ enabling infrastructure and services etc., including understanding of spatial/ urban economics. Conducting economic evaluation with sensitivity analysis</li> </ul>

S. No.	Expertise	Expertise (Qualifications and Experience)	Broad Area of required/specific Expertise
			<ul style="list-style-type: none"> <li>review institutional incentives and risks for sustaining proposed project activities;</li> <li>Listing of identified infrastructure projects and investment project proposals with preliminary/ block-cost estimates;</li> <li>any other relevant tasks assigned</li> </ul>
12.	Governance/ Institutional Framework Expert	MBA (Public Policy) or Master's degree in public administration/ development studies/ transport planning/ urban planning/ urban and regional planning/ transport economics/ urban economics or equivalent; and preferably with 15 years of general experience and 12 years of specific experience in policy and institutional review, institutional strengthening, and capacity building in transport/ urban/ regional/ tourism/ industrial development institutions, including experience in municipal finance and governance reforms aspects.	<p>(a) undertake mapping of relevant institutions of NCRPB and its partner agencies (as required) involved in the region in policy making, regulation, planning, financing, infrastructure creation, O&amp;M, monitoring, and business climate improvement and management;</p> <p>(b) Study of the institutions– organization structure, existing outreach and status of any reforms, and identify strengths/ weaknesses/ gaps in the existing institutions, and institutional strengthening/ capacity building requirements;</p> <p>(c) Recommending Institutional arrangements for projects implementation.</p>
<b>B.</b>	<b>Support Staff</b>		
1.	Transport Planner/ Engineer	Master's degree in transport planning, transportation engineering, highway engineering/ infrastructure planning, urban planning, urban and regional planning or equivalent, over a Bachelor's degree from a recognized University in civil engineering/ physical planning/ transportation engineering/ architectural engineering.	<p>(a) Shall be conversant with traffic and transport planning/ engineering modelling software, surveys/ investigations, corridor studies, etc.</p>

S. No.	Expertise	Expertise (Qualifications and Experience)	Broad Area of required/specific Expertise
		8–10 years of work experience in the appraisal, planning and design and implementation of integrated transport/ urban sector projects.	
2.	Urban Planner	Master's degree in urban planning, or regional planning, over a Bachelor's degree from a recognized University in civil engineering, physical planning, geography, architecture with 8–10 years of experience and conversant with use of GIS software(s).	Estimation of landuse parameters, be conversant with use of GIS software(s) regional and urban planning context.
3.	Data Analyst	Graduate from a recognized University or equivalent. 5–7 years of experience.	Expertise in data management and analysis with exposure to latest data analytical tools/software's.
4.	GIS cum ACAD specialist	Diploma in civil engineering/ Certificate course in GIS / Remote Sensing, architecture / computer-aided design or equivalent with 5–7 years of experience.	Experience of working on GIS software such as, Arcinfo, etc. in Regional, Urban Planning and Transportation sector and working with Auto Cad Software (2D and 3D)

ACAD = computer-aided design and drawing software (by Autodesk), GIS = Geographic Information System.

\* These support will not be rated. Their deployment, however, will be subject to the Client's prior approval w.r.t. meeting the above-stated qualification and experience requirements. Consultant may deploy any additional expert for successful completion of the Functional Plan

**Table 3: Input and Weightage Assigned to Experts**

S. No.	Expertise	Input	%Weight age of marks	Mark s
1.	Transport Planner / Engineer (Team Leader)	Full-time	20	5
2.	Transport Planner cum Multi-Modal Expert (Deputy Team Leader)	Full-time	15	4
3.	MRT/Bus System Expert	Intermittent	8	2
4.	Highway Engineer	Intermittent	5	1
5.	Public Transport Expert cum Transportation/ Travel Demand Modeller	Full-time	10	2
6.	Freight Transport Expert	Full-time	8	2
7.	Alignment and Costing Expert	Intermittent	5	2
8.	Urban/ Land Use Planner-TOD & Value Capture	Full-time	8	2
9.	E-Mobility Expert	Intermittent	4	1

<b>S. No.</b>	<b>Expertise</b>	<b>Input</b>	<b>%Weight age of marks</b>	<b>Marks</b>
10.	Economic & Financial /PPP Expert	Intermittent	5	1
11.	Economist/ Economic Nodes and Industrial Corridor Development Expert	Intermittent	10	2
12.	Governance/ Institutional Framework Expert	Intermittent	2	1
	<b>Sub-Total</b>		<b>100</b>	<b>25</b>
<b>B.</b>	<b>Support Staff</b>			
1.	Transport Planner/ Engineer	Full time		
2.	Urban Planner	Full-time		
3.	Data Analyst	Intermittent		
4.	GIS cum ACAD specialist	Intermittent		
	<b>Sub-Total</b>			
	<b>Grand Total</b>			

## Section 5. QUALIFICATION - STANDARD FORMS

[Letterhead of Consultant]

To

**Member Secretary**

National Capital Region Planning Board

(Ministry of Housing and Urban Affairs)

Core 4-B, First Floor, India Habitat Centre, Lodhi Road,

New Delhi

Tel.No.-..... E-mail: .....,

website: ncrpb.nic.in

**Sub: Consultancy Services for "PREPARATION OF FUNCTIONAL PLAN  
FOR ..... FOR NATIONAL CAPITAL REGION"**

I/We, the undersigned, offer to provide the consulting services for the above assignment in accordance with your Request for Proposal vide advertisement dated ..... 2022. We are hereby submitting our Proposal for the preparation of Functional Plan for .....for National Capital Region.

2. The Proposal contains the following documents:

- Qualification Documents
- Technical Proposal
- Financial Proposal

3. I/We have gone through the RFQ-cum-RFP documents and understand the terms and conditions. We understand that you are not bound to accept any proposal you receive.

4. We also understand and accept that application along with annexure and formats not completed in all respects is liable to rejection.

5. We undertake, if our bid is accepted, to commence work as per the schedule and to achieve the effectiveness of the contract within the respective times stated in the Bidding Documents.

6. We have read the provisions of RFQ-cum-RFP document and confirm that these are acceptable to us.

7. We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India.

Yours sincerely,

Authorized Signature

Name and title of Signatory

Name of Firm

Address

Encl:

1. Qualification Documents
2. Technical Proposal & Financial Proposal
3. Copy of RTGS/NEFT receipt or DD of Rs. 3,00,000/- (Rs. Three lakh) for Functional Plan for Transport, Economic Modes and Industrial Corridors in the NCR- 2047.

## QUALIFICATION - STANDARD FORMS

### 5A. General

Name of the bidding entity/consulting firm

1. In case of consortium, name of other partners of the consortium
2. In case the bidding entity is a subsidiary of a larger organization, please write the name of the parent organization
3. Bidding entity registered address in India
4. Bidding entity address for correspondence regarding this project, including phone numbers (mention city code), fax numbers and email addresses
5. Details of the authorized signatory of the Bidding entity for communication regarding this project
  - Name
  - Designation
  - Contact details of the authorized signatory
  - Office Phone (Direct Line/ Extension) Number
  - Fax Number
  - Mobile Phone Number
  - Email Id
6. Please mention the audited turnover of the Bidding entity/ Consortium Lead in the preceding five financial years (Rs. ....Crores)  
FY 2019-20: .....Cr. INR  
FY 2020-21: .....Cr. INR  
FY 2021-22: .....Cr.. INR  
FY 2022-23: .....Cr.. INR  
FY 2023-24: .....Cr.. INR
7. Please indicate if bidder is applying for other Functional Plan works, mentioned in RFQ cum RFP document. **Yes/no**  
**7.a)** Incase ‘**Yes**’, please mention priority for each such Functional Plan proposal , through a separate letter addressed to NCRPB , but along with the proposal.

### 5B Experience of the Bidding entity

1. Total Experience since the inception of Bidding entity (in years)
2. Main line business
3. Experience in consultancy (in years)
4. Experience in consultancy in relevant field (in years)

### 5C. Five major studies/ assignments executed

SI. no.	Name of studies/ assignments	Client	Type of studies/ assignments	Location of studies/ assignments	Value of the studies/ assignments (in Rs.)	Stage of studies/ assignments execution	
						(completed/ under progress) as on date	Year of completion
1							
2							
3							
4							
5							

### 5D. Relevant project experience of the Consulting Firm

SI. No	Title of the project	Client name	Whether participated as individual consulting firm/ member of consortium	Project cost in Rs.	Stage of project execution (completed/ under progress) as on date
			(if member of consortium, mention the consortium lead)		

### 5E. Qualification and Experience of Key Professionals

SI. No.	Field of Expertise	Qualifications			Experience			
		PhD	PG	Graduate	Total	In relevant projects	Names of corresponding project	National/ International Experience
1	Team Leader/ Urban Planner							
2	Expert 1							
3	Expert 2							
4	Expert 3							

Illustrative relevant fields to be used for above:

- Formulation of Functional Plans or similar Plans/Assignments of geographical area comparable to NCR or a State using GIS database
- Planning and implementation using GIS of urban sector projects
- Formulation of Regional Plan for a region/ sub-region

**Note: Only those firms should apply who have not less than 10 years' experience in the relevant field. For Consortium all firms must conform to this criterion.**

4F. Write-up on the topic “Functional Plan and its relevance in overall Regional Planning and development of NCR” in about 1000 words.

## Section 6. TECHNICAL PROPOSAL - STANDARD FORMS

### 6 A. Technical Proposal Submission Form

To  
**Member Secretary**  
National Capital Region Planning Board  
(Ministry of Housing and Urban Affairs)  
Core 4-B, First Floor, India Habitat Centre, Lodhi Road,  
New Delhi  
Tel.No:-..... E-mail: .....  
website: [ncrpb.nic.in](http://ncrpb.nic.in)

**Sub: Consultancy Services for "PREPARATION OF FUNCTIONAL PLAN FOR ..... FOR NATIONAL CAPITAL REGION" - Submission of Technical Proposal**

**Sir/Mam,**

I/We the undersigned, offer to provide the consulting services for the above assignment in accordance with your Request for Proposal vide advertisement dated ..... 2022. We are hereby submitting our Proposal for the preparation of Functional Plan for.....for National Capital Region.

2. I/We are hereby submitting our Technical Proposal on prescribed formats.

#### 6B Firm's References

6B i) Relevant services carried out in the last five years that best illustrate qualifications

6B ii) Particulars and Experience of firm(s)

6B iii) Experience of the Consulting Firm

6C Comments & Suggestions of Consultants on the Terms of Reference and on Data, Services & Facilities to be provided by the Client

6D Description of the Methodology & Work Plan for Performing the Assignment

6E Team Composition & Task Assignments

6F Format of Curriculum Vitae (CV) for Proposed Key Professional / Staff

Yours sincerely,

Authorized Signature  
Name and title of Signatory  
Name of Firm Address

Encl. As above



## 6B. Firm's References

Using the format below, provide information on each reference assignment for which your firm, either individually as a corporate entity or as one of the major companies within an association, was legally contracted.

### 6B(i) Relevant services carried out in the last five years that best illustrate qualifications

**Firm's Name:**

Assignment Name:		Country:
Location within Country:		Key professional staff provided by your Firm/ (profiles):
Name of Client:		No. of Staff:
Address:		No. of Staff-months: Duration of assignment:
Start Date (Month/Year):	Completion Date (Month/Year):	Approx. Value of Services (in Rs.):
Name of Associated Consultants, if any:		No. of months of key professional staff provided by Associated Consultants:
Name of Senior Staff (Project Director/Coordinator, Team Leader) involved and functions performed:		
Narrative Description of Project:		
Description of Actual Services Provided by Your Staff:		

**6B (ii). Particulars and Experience of firm(s)**

Relevant services carried out in the five projects\* similar to the assignment, considered to best illustrate experience and capabilities of the consulting firm/ Consortium since the inception of the Consultant firm in the format given below.

S. No.	Field of Specialisation	Name of consulting firm	Assignment Name	Name of Client	Whether participated as individual consulting firm/ member of consortium, member of consortium mention the consortium lead	Project Cost in Rs.	Stage of Project execution or ground (initiated/ in progress/ completed)	Any other relevant information
1	2	3	4	5	6	7	8	9
1								
2								
3								
4								
5								

\*Note: If the proposal is being submitted by a consortium, mention the best five relevant projects carried out by consortium or constituent firms.

Illustrative fields of specialization to be used in column 2 above:

- Formulation of Functional Plans or similar Plans/Assignments of geographical area comparable to NCR or a State using GIS database
- Planning and implementation using GIS of urban sector projects
- Formulation of Regional Plan for a region/ sub-region

**6B(iii). Experience of the Consulting Firm**

Sl. No.	Name of consulting firm/ consortium	Total Experience since the inception of firm (in years)	Experience in Relevant Field (Years)

**6C. Comments & Suggestions of Consultants on the Terms of Reference and on Data Services & Facilities to be provided by the Client**

On the Terms of Reference:

- 1.
- 2.
- 3.
- 4.
- 5.

On the data, services, and facilities to be provided by the Client

- 1.
- 2.
- 3.
- 4.
- 5.

## 6D. Description of the Methodology & Work Plan for Performing the Assignment

### 6E. Team Composition & Task Assignments

**1. Core Team** [refer Core Team Composition, qualification and weightage for key professionals of respective sector under Section-3 para 3.1 (b)]

Sl. No.	Name	Proposed Position	Total experience (years)	Relevant experience in years
1. 2. 3. 4. .. ..				

### 2. Support Staff

Sl. No.	Name	Proposed Position	Total experience (years)	Tasks to be performed
1. 2. 3. 4. .. ..				

**6F. Format of Curriculum Vitae (CV) for Proposed Key Professional Staff**

Proposed Position.....  
Name of Firm.....  
Name of Expert.....  
Profession.....  
Date of Birth.....  
Years with Firm/Entity .....  
Nationality.....  
Membership in Professional Societies.....  
Detailed tasks Assigned.....  
Key Qualification.....

*[Give an outline of expert member's experience and training most pertinent to tasks on assignment. Describe degree of responsibility held by expert member on relevant previous assignments and give dates and locations. Use about half a page.]*

**Education** .....

*[Summarize college/university and other specialized education of expert member, giving names of schools, dates attended, and degrees obtained. Use about one quarter of a page.]*

**Employment Record**.....

*Starting with present position, list in reverse order every employment held. List all positions held by expert member since graduation, giving dates, names of employing organizations, titles of positions held, and locations of assignments. For experience in last ten years, also give types of activities performed and client references, where appropriate. Use about two pages.]*

**Languages** .....

*[For each language indicate proficiency: excellent, good, fair, or poor; in speaking, reading, and writing]*

**Certification:**

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience. If awarded the Contract, I undertake to work with this Firm only on this assignment.

\_\_\_\_\_  
(Signature of expert member)

\_\_\_\_\_  
(Signature of authorized representative of Firm)

Date: Day/Month/Year

Full Name of expert \_\_\_\_\_

Full name of authorized representative \_\_\_\_\_

## Section 7 FINANCIAL PROPOSAL STANDARD FORM

(Letter head of consultant)

(Location, Date)

To

**Member Secretary**

National Capital Region Planning Board

(Ministry of Housing and Urban Affairs)

Core 4-B, First Floor, India Habitat Centre, Lodhi Road,

New Delhi

Tel.No-..... E-mail: .....

Website: [ncrpb.nic.in](http://ncrpb.nic.in)

**Sub: Consultancy Services for "PREPARATION OF FUNCTIONAL PLAN FOR ..... FOR NATIONAL CAPITAL REGION" - Submission of Financial Proposal**

I/We, the undersigned, offer to provide the consulting services for the above assignment in accordance with your Request for Proposal vide advertisement dated ..... 2022. We are hereby submitting our Proposal for the preparation of Functional Plan for .....for National Capital Region.

2. I/We are hereby submitting our Financial Proposal for the sum of [Amount in words and figures]. This amount is inclusive of all taxes, levies and other expenses. Break up of financial proposal amount is given hereunder:

Sr. No.	Particulars	Amount (INR)
1.	Consultancy Fee	
2.	GST	
	<b>Total</b>	

3. Our financial proposal shall be binding upon us subject to the modifications resulting from discussions, up to expiration of the validity period of 180 days from the date of opening of the bid (bid submission date).

4. I/We undertake that, in competing for (and, if the award is made to us, in executing) the above contract, we will strictly observe the laws against fraud and corruption in force in India namely "Prevention of Corruption Act 1988".

5. I/We have gone through the RFP documents and understand the terms and conditions. I/We hereby agree to all terms and conditions set out in the RFP Document. We understand that you are not bound to accept any proposal you receive.

Signature of Witness

Name: & Title of Signatory:

Address:

E-mail \_\_\_\_\_

Mobile No. \_\_\_\_\_

Tel. No. \_\_\_\_\_

Signature of Authorized Signatory

Name & Title of Signatory:

Name of the Firm

Address:

E-mail \_\_\_\_\_

Mobile No. \_\_\_\_\_

Tel No. \_\_\_\_\_

## Attachment 1

### BRIEF DESCRIPTION OF CONSTITUENT AREAS OF NCR

1. The constituent areas of the National Capital Region (NCR) as notified covers the whole area of National Capital Territory (NCT)-Delhi and 24 districts of Haryana, Uttar Pradesh and Rajasthan. The NCR constitutes 230 urban settlements of various sizes and 11,774 villages with a total area of 55,083 square kilometers (km<sup>2</sup>) as shown in the Figure 1 below.

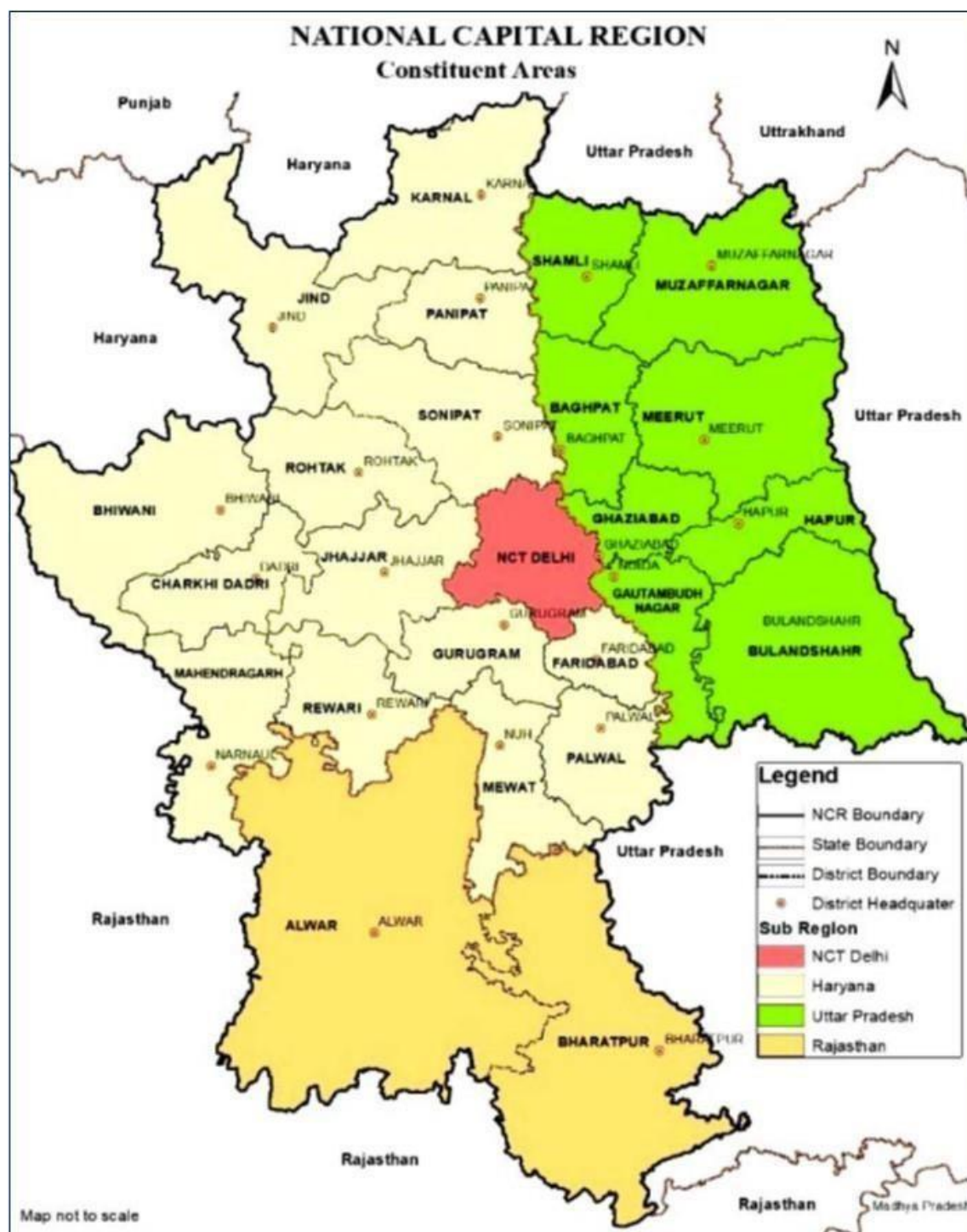


Figure 1: Constituent Areas of NCR

2. The sub-region wise details are as under:

- a) NCT-Delhi with area of 1,483 km<sup>2</sup> accounting to 2.7% of the total NCR area.
- b) Haryana sub-region comprising of fourteen [14] districts (Faridabad, Gurgaon, Rohtak, Sonapat, Rewari, Jhajjar, Mewat, Palwal, Bhiwani, Charkhi Dadri, Mahendragarh, Jind, Karnal and Panipat districts) with an area of 25,327 km<sup>2</sup> accounts for 46% of the NCR area.
- c) Rajasthan sub-region comprises of two [2] districts (Alwar and Bharatpur) with an area of 13,447 km<sup>2</sup> accounting to 24.4% of the total NCR area.
- d) Uttar Pradesh sub-region comprising of eight [8] districts (Meerut, Ghaziabad, Gautam Buddha Nagar, Bulandshahr, Hapur, Muzaffarnagar, Shamli and Baghpat) with an area of 14,826 km<sup>2</sup> accounting to 26.9 % of the NCR area.

3. The population of the NCR as per Census of India, 2011 was 58.16 million comprising of 16.79 million (29%) in NCT Delhi, 16.43 million (28%) in Haryana sub-region, 18.72 million (32%) in Uttar Pradesh sub-region and 6.22 million (11%) in Rajasthan sub-region. The total Urban Population of NCR was about 31.7 million as per Census, 2011.

The population of NCR is projected to be 71.82 million (urban population of 42.59 million) by 2021, 89.59 million (urban population of 57.00 million) by 2031, and 113 million (urban population of 76.65 million) by 2041. As per 2011 Census, the slum population of NCR was 4.32 million constituting 7.4% of total population.

4. An exercise for delineation/ revision of NCR area/boundary is currently underway. In case there is a change in the current NCR area/boundary due to such delineation, this Regional Plan-2041 shall stand ipso facto modified and shall be applicable *mutatis mutandis* immediately from the date of notification of the relevant addendum to this Regional Plan.



## FUNCTIONAL PLANS

### A. Definition and Purpose

1. A functional plan (commonly referred to as sectoral plan) is prepared to elaborate one or more elements of the regional plan.<sup>19</sup> Functional plans are usually domain-centric technical plans that address status; identify issues; and formulate long-term sectoral vision, goals, and objectives, as well as indicators and targets consistent with the vision and framework of the regional plan.

2. In essence, regional plans determine what to achieve, while functional plans detail when and how to achieve the same. Thus, regional plans define policies, while functional plans convert them to implementable actions with locations and projects. It is imperative for a functional plan of one sector to have convergence with objectives that relate to functional plans of other sectors and the overall regional plan.

3. In the National Capital Region (NCR) context, functional plans provide proper guidance for participating states and the union territory after the regional plan has become operational.

### B. Scope and Time Frame

4. Functional plans often focus on interregional proposals, while working within the sectoral framework. The significance of traditional functional plans (such as for transport, water, and the economy) cannot be overstated, but equal importance must be given to development of plans related to areas such as education and health, resilience, safety, tourism, industry, and logistics, while capturing synergies and convergences.

5. Functional plans are to address a 20-year timeframe. Actions should be phased, realistic, and achievable in the proposed duration of the plan, with budgets that are appropriately arranged and allocated for the action programs.

6. Functional plans differ from detailed project reports (DPRs). Following the preparation of a functional plan and identification of a project (with pre-feasibility studies where necessary), DPRs are prepared for the identified projects by the respective project implementing agencies.

### C. Studies, Process and Analyses

7. Functional plans require intensive domain-appropriate studies to form recommendations, including through (i) data gathering via (a) user surveys, (b) gaining access to information from the government (e.g., statistics and maps) and other authoritative sources, and (c) onsite observations and readings; (ii) review of current policies, regulations, laws, and guidelines (including gender equality and social inclusion considerations); (iii) assessment of the status of past proposals and plans (as delineated in previous regional, subregional and functional plans); and (iv) inputs from experts and key stakeholders (through panels and interviews) to identify gaps in previous plans.

8. Studies must rest on a strong foundation of data gathering and analysis. Relevant departments in the constituent states have to be included in the process from the early stages to obtain their support. The engagement of citizen groups and civil society organizations with domain expertise (e.g., transport and gender) is equally important to ensure a consultative and inclusive process. In addition, gender equality and social inclusion should be an important crosscutting principle in all relevant diagnostics.

9. Depending upon the sector, specific analyses need to be carried out to arrive at appropriate and implementable solutions (at a functional plan level as well as for specific projects outlined within them, as appropriate). Such analyses include (i) an analysis of strengths, weaknesses, opportunities, and threats; (ii) statistical analyses; (iii) simulations; (iv) scenario building (to include climate risk and adaptation assessment); (v) business case development; (vi) impact

assessments (e.g., social, environmental, climate, and disasters); and (vii) review with respect to internal, national, or international benchmarks and precedents.

10. As functional plans are developed, effort should be made to ensure they are agile, userfocused, smart, and integrated.

- **Agile.** Test scenarios and different ways to address priorities. This is particularly pertinent with fast-changing technologies as well as climate vulnerabilities and pandemics such as the coronavirus disease.

- **User-focused.** Plans should reflect user inputs (from people and local organizations) and improve the lives of ordinary people.

- **Smart.** Plans should harness the private sector and existing organizational structures wherever possible; use smart policy and regulation to change behavior where possible; leverage the power of digital technologies and information and communication technology.

- **Integrated.** Plans should connect across sector-specific functional plans to espouse an integrated urban development approach.

#### **D. Results, Recommendations, and Solutions**

11. The studies and analyses help identify the current conditions and gaps to be addressed to achieve the desired end-state, as well as identifying actual projects and programs, and project implementing agencies that would be responsible for executing the projects. Functional plans enable this through by (i) identifying actions, including proposed changes, if any, in policies, programs, acts, regulations, rules, and government orders; and (ii) identifying relevant and viable projects through pre-feasibility studies.

12. The following activities will be undertaken subsequent to preparation of the functional plans:

- (i) implement the identified actions (including changes, if any, in policies, programs, acts, regulations, rules, and government orders); and
- (ii) implement the identified projects (including preparation of DPRs, engineering estimates and project costs, financing plans and financial closure, and institutional structures, followed by actual implementation).

#### **E. Analyses of the Current Functional Plans**

13. The framework for NCR planning is robust and technically driven. The hierarchy and framework for plans—the umbrella regional plan, subregional plans to provide geographical focus, and the functional plans to address key cross-sectoral issues—are comprehensive.

14. Among the NCRRP 2021-related functional plans, the functional plan for transport is a good example of a comprehensive approach (even while business case development and scenario testing are not detailed comprehensively), wherein a current-state analysis of the sector is provided; stakeholder surveys are conducted (e.g., bus surveys); sector priorities are established; economic and social costs and impacts are stated; and a staged program of actions is provided, supported by proposed institutional arrangements and financing methods. However, some development areas require attention:

- (i) The length of time needed to prepare and approve functional plans after completion of the regional plan exceeds 5 years in many cases, which leads to challenges for interdependent projects that simultaneously affect multiple sectors such as transport, economic development, drainage, and groundwater.

- (ii) Important analyses—such as alternative growth scenarios for urban regions, and the impacts and mitigation of climate change and pollution—require increased engagement. This should be reflected in the sector functional plans (para. 9).

- (iii) Projects are often not financially viable, both in terms of capital investment and operation and maintenance expenses. Addressing this may require changes in standards of services and/or the scale of projects, both of which could be politically challenging. Private sector investment options, such as transit-oriented development, land value capture-based financing, and public–private partnerships need to be considered.