

REQUEST FOR PROPOSAL

No: 02-09/2/2021-DIR_HR-OPS

Date: 05 July 2021

Request for Proposal

Selection of Agency

GLOBAL URBAN INFRASTRUCTURE RESILIENCE STUDY

**Client: Coalition for Disaster Resilient Infrastructure
(CDRI)**

**Published on:
05 July 2021**

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The issue of this RfP does not imply that the CDRI is bound to select an agency or to appoint the

Selected Agency, as the case maybe, for the Consultancy and the CDRI reserves the right to reject all or any of the Proposals without assigning any reasons whatsoever.

The Agency shall bear all its costs associated with or relating to the preparation and submission of its Proposal including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by the CDRI or any other costs incurred in connection with or relating to its Proposal. All such costs and expenses will remain with the Agency and the CDRI shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by an agency in preparation or submission of the Proposal, regardless of the conduct or outcome of the Selection Process.

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SECTION 1. INTRODUCTION

1. Background

The Coalition for Disaster Resilient Infrastructure (CDRI) is a multi-stakeholder global partnership of national governments, UN agencies and programmes, multilateral development banks and financing mechanisms, the private sector, and academic and knowledge institutions. It aims to address the challenges of building resilience into infrastructure systems and development associated with it. The vision, mission, goal, and objectives of the CDRI are explicitly linked to the post-2015 development agendas. The Coalition will also contribute to the resilience of the global infrastructure systems in an increasingly interconnected world. The outcome of such collaboration would be aimed at building resilient economies and resilient people through cross-sector commitments at all levels towards adaptation and resilience with concrete outcomes that will bring resilience action to global scale. The global coalition is anchored by the Coalition for Disaster Resilient Infrastructure Society (CDRIS), registered under the Societies Registration Act (1860), India, in New Delhi, recognised as the CDRI Secretariat. CDRI Website: www.cdri.world.

2. Purpose of the Assignment

CDRI intends to select an agency to provide consultancy services to CDRI for “Global Urban Infrastructure Resilience Study”. In this regard, CDRI invites proposals from interested and eligible agencies/firms to provide the consultancy services as detailed in this RFP.

SECTION 2: INSTRUCTIONS TO AGENCIES

Part I Standard

1. Definitions

- (a) “CDRI” means the organisation who has invited the bids for consultancy services and with which the selected Agency signs the Contract for the Services and to which the selected Agency shall provide services as per the terms and conditions and TOR of the contract.
- (b) “Agency” means and includes a firm, partnership, an organization or business concern that provides a specific or specialist service in the area of Services contracted for under this Agreement.
- (c) “Contract” means the Contract signed by the Parties and all the attached documents listed in its Clause 1, that is the General Conditions (GCC), the project Specific Conditions (SCC), and the Appendices.
- (d) “Project specific information” means such part of the Instructions to Agencies used to reflect specific project and assignment conditions.
- (e) “Day” means calendar day.
- (f) “Experts” means, collectively, Key Experts, Non-Key Experts, or any other personnel of the Agency, Sub-Agency or Joint Venture member(s).
- (g) “Government” means the government of India.
- (h) “Instructions to Agencies” (Section 2 of the RFP) means the document which provides short-listed Agencies with all information needed to prepare their proposals.
- (i) “Joint Venture (JV)” means an association with or without a legal personality distinct from that of its members, of more than one entity where one member has the authority to conduct all businesses for and on behalf of any and all the members of the JV, and where the members of the JV are jointly and severally liable to the Client for the performance of the Contract.
- (j) “Key Expert(s)” means an individual professional whose skills, qualifications, knowledge and experience are critical to the performance of the Services under the Contract and whose Curricula Vitae (CV) was taken into account in the technical evaluation of the Agency’s proposal.
- (k) “Personnel” means professionals and support staff provided by the Agency and assigned to perform the Services or any part thereof; “Foreign Personnel” means such professionals and support staff who at the time of being so provided had their domicile outside the Government’s country; “Domestic Personnel” means such professionals and support staff who at the time of being so provided had their domicile in India.
- (l) “Proposal” means the Technical Proposal and the Financial Proposal.
- (m) “RFP” means the Request for Proposal prepared by CDRI for the selection of Agencies, based on the SRFP.
- (n) “SRFP” means the Standard Request for Proposals, which has been used by CDRI as a guide for the preparation of the RFP.
- (o) “Sub-Agencies” means an entity to whom/which the Agency subcontracts any part of the Services while remaining solely liable for the execution of the Contract.
- (p) “Assignment/job/services” means the work to be performed by the Agency pursuant to the Contract.

- (q) “Terms of Reference” (TOR) means the document included in the RFP as Section 4 which explains the objectives, scope of work, activities, tasks to be performed, respective responsibilities of CDRI and the Agency, and expected results and deliverables of the Assignment/job.

2. Introduction

- 2.1 CDRI named in the Part II **Data Sheet** will select a consulting firm/organization (the Agency) in accordance with the method of selection specified in the Part II **Data Sheet**.
- 2.2 The name of the assignment/Job has been mentioned in Part II **Data Sheet**. Detailed scope of the assignment/ job has been described in the Terms of Reference in Section 4.
- 2.3 The date, time and address for submission of the proposals has been given in Part II **Data Sheet**.
- 2.4 Agencies are invited to submit their Proposal, for consulting Assignment/job named in the Part II **Data Sheet**. The Proposal will be the basis for award of contract and ultimately for a signed Contract with the selected Agency.
- 2.5 Agencies should familiarize themselves with local conditions and take them into account in preparing their Proposals. To obtain further information or clarifications, a pre-bid meeting will be organized. The date and time for pre-bid meeting has been given in Part II **Data Sheet**. To obtain further information or clarifications, Agencies may refer to procedure in para 4 below.
- 2.6 CDRI will provide at no cost to the Agencies the inputs and facilities specified in the Part II **Data Sheet**, assist the Agencies in obtaining licenses and permits needed to carry out the Assignment/job, and make available relevant project data and reports to the extent possible. The final responsibility for obtaining the above to complete the project lies with the Agency.
- 2.7 Agencies shall bear all costs associated with the preparation and submission of their proposals and contract finalisation. CDRI is not bound to accept any proposal and reserves the right to annul the selection process at any time prior to Contract award, without thereby incurring any liability to the Agencies.

3. Eligibility of Association of Agencies

- 3.1 If the Agency has formed an association of Agencies and applied jointly (if association/Joint Venture/consortium allowed as per **Data Sheet**), the association of Agencies shall be evaluated as a single entity as per the qualification/ eligibility criteria set forth in Part II **Data Sheet**. If any member of the association of Agencies is dropped during or at any time after the RFP stage, such an association of Agency is liable to be rejected by CDRI or lead to the termination of the contract.
- 3.2 The lead member of the association of the Agency shall be the Agency who has been selected by CDRI and CDRI shall deal with only the lead member for the purpose of this assignment. The lead member of the association of the Agency shall be responsible and liable to CDRI for

all aspects of their proposal, contract, service etc.

- 3.3 Apart from the association/consortium formed before submission of the proposal, the Agency shall not subcontract any portion of Agency's duties under this Agreement without prior written consent of CDRI.
- 3.4 In case a member of the selected association of Agencies is not able to perform their duties for some reason, any required changes to the proposed team or association of Agencies may be submitted in writing to CDRI with proper justifications for the changes, and proposed plan for replacement of roles and skills required to complete the project. CDRI, at its sole discretion, may decide whether to approve or reject the proposal, or debar the association from further evaluation, or terminate the contract, depending on the stage of the project.

4. Clarification and Amendment of RFP Documents

- 4.1 Agencies may request a clarification on any clause of the RFP documents up to the number of days indicated in the Part II **Data Sheet** before the proposal submission date. Any request for clarification must be sent in writing by standard electronic means to CDRI's email address indicated in the Part II **Data Sheet**. The Agency may call CDRI's representative to confirm if the email has been received. CDRI will respond in writing by standard electronic means and will send copies of the response (including an explanation of the query but without identifying the source of inquiry) to all Agencies. Should CDRI deem it necessary to amend the RFP as a result of a clarification, it shall do so following the procedure under para. 4.2 below.
- 4.2 At any time before the submission of Proposals, CDRI may amend the RFP by issuing an addendum in writing or by standard electronic means. The addendum shall be sent to all Agencies and will be binding on them. Agencies shall acknowledge receipt of all amendments. To give Agencies reasonable time in which to take an amendment into account in their Proposals CDRI may, if the amendment is substantial, extend the deadline for the submission of Proposals.

5. Conflict of Interest

- 5.1 CDRI requires that Agencies provide professional, objective, and impartial advice and always hold CDRI's interest's paramount, strictly avoid conflicts with other Assignment/jobs or their own corporate interests and act without any consideration for future work.
- 5.2 Without limitation on the generality of the foregoing, Agencies, shall be considered to have a conflict of interest and shall not be selected, under any of the circumstances set forth below:
 - a. **Conflicting activities:** (i) a firm that has been engaged by CDRI to provide goods, works or Assignment/job other than consulting Assignment/job for a project, shall be disqualified from providing consulting Assignment/job related to those goods, works or Assignment/job. Conversely, a firm hired to provide consulting Assignment/job for the preparation or implementation of a project, shall be disqualified from subsequently providing goods or works or Assignment/job other than consulting Assignment/job resulting from or directly related to the firm's consulting Assignment/job for such preparation or implementation. For

the purpose of this paragraph, Assignment/job other than consulting Assignment/job are defined as those leading to a measurable physical output, for example surveys, exploratory drilling, aerial photography, and satellite imagery.

- b. Conflicting Assignment/job:** (ii) An agency (including its Personnel and Sub- Agencies) shall not be hired for any Assignment/job that, by its nature, may conflict with another Assignment/job of the Agency. For example, an agency hired to prepare engineering design for an infrastructure project shall not be engaged to prepare an independent environmental assessment for the same project, and an agency assisting an CDRI in the privatization of public assets shall not purchase, nor advise purchasers of, such assets.
- c. Conflicting relationships:** (iii) An agency (including its Personnel and Sub-Agencies) that has a business or family relationship with a member of CDRI's staff who is directly or indirectly involved in any part of (I) the preparation of the Terms of Reference of the Assignment/job, (ii) the selection process for such Assignment/job, or (iii) supervision of the Contract, may not be awarded a Contract, unless the conflict stemming from this relationship has been resolved in a manner acceptable to CDRI throughout the selection process and the execution of the Contract.

5.3 Agencies have an obligation to disclose any situation of actual or potential conflict that impacts their capacity to serve the best interest of CDRI, or that may reasonably be perceived as having this effect. Any such disclosure shall be made as per the Standard forms of technical proposal provided herewith. If the Agency fails to disclose said situations and if CDRI comes to know about any such situation at any time, it may lead to the disqualification of the Agency during bidding process or the termination of its Contract during execution of assignment.

5.4 No current employees of CDRI shall work as Agencies under this assignment.

6. Unfair Advantage

6.1 The Agency selected for this assignment shall not be given any special preference or consideration for other projects/assignments to be taken up in the future by CDRI. The selected Agency shall also not be barred from participating in future projects/assignments unless there is a conflict of interest as per para 5 above.

6.2 Fairness and transparency in the selection process require that the Agencies or their Affiliates competing for a specific assignment do not derive a competitive advantage from having provided consulting services related to the assignment in question.

7. Proposal

7.1 The Proposal shall comprise the documents and forms listed in the **Data Sheet**.

7.2 Agencies may only submit one proposal. If an agency submits or participates in more than one proposal, such Agencies and their proposals shall be disqualified from the RFP process.

7.3 The CDRI permits Agencies (individuals and firms, including Joint Ventures and their

individual members) from all countries to offer consulting services.

- 7.4 Furthermore, it is the Agency's responsibility to ensure that its Experts, joint venture members, Sub-Agencies, agents (declared or not), sub-contractors, service providers, suppliers and/or their employees meet the eligibility requirements as established in this document.
- 7.5 The Agency (including the individual members of any Joint Venture, if Joint venture allowed as indicated in the **Data Sheet**) shall submit only one Proposal, either in its own name or as part of a Joint Venture in another Proposal. If an agency, including any Joint Venture member, submits or participates in more than one proposal, all such proposals shall be disqualified and rejected. This does not, however, preclude a Sub-Agency, or the Agency's staff from participating as Key Experts and Non-Key Experts in more than one Proposal when circumstances justify and if stated in the **Data Sheet**.

8. Proposal Validity

- 8.1 The Part II **Data Sheet** to Agency indicates how long Agencies' Proposals must remain valid after the submission date. During this period, Agencies shall maintain the availability of Professional staff nominated in the Proposal and keep the financial proposal unchanged. CDRI will make its best effort to award the work within this period. Should the need arise, however, CDRI may request Agencies to extend the validity period of their proposals. Agencies who agree to such extension shall confirm that they maintain the availability of the Professional staff nominated in the Proposal and their financial proposal remain unchanged, or in their confirmation of extension of validity of the Proposal, Agencies could submit new staff in replacement, who would be considered in the final evaluation for contract award. Agencies who do not agree have the right to refuse to extend the validity of their Proposals, under such circumstance CDRI shall not consider such proposal for further evaluation.

9. Preparation of Proposals

- 9.1 The Proposal as well as all related correspondence exchanged by the Agencies and CDRI, shall be written in English language.
- 9.2 In preparing their Proposal, Agencies are expected to examine in detail the documents comprising the RFP. Material deficiencies in providing the information requested may result in rejection of a Proposal.
- 9.3 While preparing the Technical Proposal, Agencies must give particular attention to the following:
 - 9.3.1 An estimated number of Professional staff-months for the Assignment/job is as shown in the Part II **Data Sheet** (as applicable). However, the Proposal shall be based on the number of Professional staff-months or budget estimated by the Agencies.
 - 9.3.2 Alternative professional staff shall not be proposed, and only one curriculum vitae (CV) may be submitted for each position mentioned.

9.4 **Pre-Qualification Documents (PQ):** Depending on the nature of the Assignment/job, Pre-qualification documents may need to be submitted. The documents and formats are indicated in the **Data Sheet** and Section 3 – Standard Forms.

9.5 **Technical Proposals:** Agencies are required to submit a Technical Proposal in Forms provided in Section-3. The **Data Sheet** indicates the relevant forms to be submitted as part of the Technical Proposal. The Technical Proposal may provide the information indicated in the following paras using the attached Standard Forms (Section 3).

- a. Form Tech – 1 in Section-3 is a letter of technical proposal which is to be submitted along with the technical proposal.
- b. A brief description of the Agency’s organization and in the case of a consortium/ joint venture, of each partner, will be provided in Form Tech-2. In the same Form, the Agency and in the case of a consortium/ joint venture, each partner will provide details of experience of assignments which are similar to the proposed assignment/ job as per the terms of reference. Information should be provided only for those Assignment/jobs for which the Agency was legally contracted as a corporation or as one of the major firms within a joint venture. Assignment/jobs completed by individual professional staff working privately or through other consulting firms cannot be claimed as the experience of the Agency, or that of the Agency’s associates, but can be claimed by the Professional staff themselves in their CVs. Agencies should be prepared to substantiate the claimed experience along with the proposal and must submit letter of award / copy of contract for all the assignments mentioned in the proposal.
- c. Comments and suggestions on the Terms of Reference including workable suggestions that could improve the quality/ effectiveness of the Assignment/job; and on requirements for counterpart staff and facilities to be provided by CDRI (Form Tech-3 of Section 3). The work plan should be consistent with the Work Schedule (Form TECH-8 of Section 3) which will show in the form of a bar chart, the timing proposed for each activity.
- d. A description of the approach and methodology are key components for preparing the technical proposal. Guidance on the content of this section of the Technical Proposals is provided under Form Tech-4 of Section 3.
- e. The list of the proposed Professional staff team by area of expertise, the position that would be assigned to each staff team member, and their tasks is to be provided in Form TECH-5 of Section 3.
- f. Estimates of the staff input needed to carry out the Assignment/job needs to be given in Form TECH-7 of Section 3. The staff-months input should be indicated separately for each location where the Agencies have to work and / or provide their key staff.
- g. CVs of the Professional staff as mentioned in the list above signed by the staff themselves or by the authorized representative of the Professional Staff (Form Tech-6 of Section 3).

9.5.1 The Technical Proposal shall not include any financial information. A Technical Proposal containing financial information that can be used to estimate the financial bid, may be declared non-responsive.

9.6 **Financial Proposals:** The Financial Proposal shall be prepared using the attached Standard

Forms (Section 3). The Agency shall submit their financial proposal in the form of a single figure that would indicate the total cost of the entire project including all costs associated with the project and taxes as per clause 10 below. The financial proposal shall not include any conditions attached to it and any such conditional financial proposal shall be rejected summarily.

- 9.6.1 Form FIN-2 provides the format for submission of a break-down of 'Costs' proposed by the Agency. CDRI shall not use this cost break-down for evaluation of financial bids. The purpose of this break down is for deduction of payments by CDRI in the case of non-completion of deliverable by Agency.

10. Taxes

- 10.1 The Agency shall fully familiarize themselves about the applicability of Domestic taxes (such as: GST or any other taxes, duties, fees, levies etc.) on amounts payable by CDRI under the Contract. All such taxes must be included by the Agency in the financial proposal.

11. Currency

- 11.1 Agencies shall express the price of their Assignment/job in Currency indicated in the **Data Sheet**.

12. Earnest Money Deposit (EMD)

- 12.1 Earnest Money Deposit:

- i. An EMD of amount as indicated in the **Data Sheet**, in the form of Bank Transfer from any of the public sector bank or a private sector bank.
- ii. Proposals not accompanied by EMD shall be rejected as non-responsive. Last date of submission of EMD shall be 1 day before the Bid Submission Deadline as indicated in the **Data Sheet**.
- iii. No interest shall be payable by CDRI for the sum deposited as earnest money deposit.
- iv. EMD will be liable to be forfeited if the Agency withdraws or amends, impairs or derogates from the tender in any respect within the validity periods of their tender.
- v. The EMD of the unsuccessful Agencies would be returned within one month of date of bid opening/contracting.

- 12.2 The EMD shall be forfeited by CDRI in the following events:

- i. If Proposal is withdrawn during the validity period or any extension agreed by the Agency thereof.
- ii. If the Proposal is varied or modified in a manner not acceptable to CDRI after opening of Proposal during the validity period or any extension thereof.
- iii. If the Agency tries to influence the evaluation process.
- iv. If the preferred bidder withdraws his proposal during negotiations (failure to arrive at consensus by both the parties shall not be construed as withdrawal of proposal by the Agency).
- v. If preferred bidder does not submit PBG and sign the agreement within the time provided by CDRI.

13. Performance Guarantee

- 13.1 CDRI will require the selected Agency to provide an irrevocable, unconditional Performance Bank Guarantee within 15 days from the notification of award, as indicated in the **Data Sheet**.
- 13.2 The Performance Guarantee shall be kept valid till completion of the project. The Performance Guarantee shall contain a claim period of three (3) months from the last date of validity. The selected Agency shall be responsible for extending the validity date and claim period of the Performance Guarantee as and when it is due on account of non-completion of the project.
- 13.3 In case the selected Agency fails to submit performance guarantee within the time stipulated, CDRI at its discretion may cancel the order placed on the selected Agency without giving any notice. CDRI shall invoke the performance guarantee in case the selected Agency fails to discharge their contractual obligations during the period or CDRI incurs any loss due to Agencies negligence in carrying out the project implementation as per the agreed terms & conditions.

14. Submission, Receipt, and Opening of Proposal

- 14.1 The original proposal, including Pre-Qualification Documents, Technical and Financial Proposals shall contain no interlineations or overwriting, except as necessary to correct errors made by the Agencies themselves. The person who signed the proposal must initial such corrections. Submission letters for both Technical and Financial Proposals should respectively be in the format of TECH-1, and FIN-1 of Section 3.
- 14.2 An authorized representative of the Agencies shall initial all pages of the original Pre-Qualification Documents, Technical and Financial Proposals. The authorization shall be in the form of a written power of attorney (PQ1) accompanying the Proposal or in any other form demonstrating that the representative has been dully authorized to sign.
- 14.3 The procedure for submission of Bids is given in the **Data Sheet**.
- 14.4 The Proposals must be sent to the email address indicated in the **Data Sheet** and received by CDRI no later than the time and the date indicated in the **Data Sheet**, or any extension to this date. Any proposal received by CDRI after the deadline for submission shall not be opened.

15. Proposal Evaluation

- 15.1 From the time the Proposals are opened to the time the Contract is awarded, the Agencies should not contact CDRI on any matter related to its Technical and/or Financial Proposal. Any effort by Agencies to influence CDRI in the examination, evaluation, ranking of Proposals, and recommendation for award of Contract may result in the rejection of the Agencies' Proposal.

- 15.2 CDRI has constituted a Core Committee (CC) which will carry out the entire evaluation process.
- 15.3 **Opening and Evaluation of Technical Proposals:** CC while evaluating the Technical Proposals shall have no access to the Financial Proposals until the technical evaluation is concluded, and the competent authority accepts the recommendation.
- 15.4 The CC shall evaluate the Pre-Qualification Documents and Technical Proposals based on their responsiveness to the Terms of Reference and by applying the evaluation criteria, sub-criteria specified in the **Data Sheet**. Evaluation of the technical proposal will start first and at this stage the financial bid (proposal) will remain unopened.
- 15.5 **Opening & evaluation of the Financial Proposals:** Financial proposals of only those firms who are technically qualified shall be opened on completion of evaluation of Technical Proposals.
- 15.6 After opening of financial proposals, system as described in **Data Sheet** shall be applied to determine the Agency who will be declared winner and be eligible for award of the contract.

16. Award of Contract

- 16.1 After completing evaluations, CDRI shall issue a Letter of Intent to the selected Agency and promptly notify all other Agencies who have submitted proposals about the decision taken.
- 16.2 The Agencies will sign the contract after fulfilling all the formalities/pre-conditions mentioned in the standard form of contract in Section-6, within 15 days of issuance of the letter of intent. Failing this, the next eligible Agency may be considered for awarding the contract.
- 16.3 The Agency is expected to commence the Assignment/job on the date and at the location specified in the **Data Sheet**.

17. Ownership and Confidentiality of Data and Work Products

- 17.1 Information relating to evaluation of Proposals and recommendations concerning awards shall not be disclosed to the Agencies who submitted the Proposals or to other persons not officially concerned with the process, until the publication of the award of Contract. The undue use by any Agency of confidential information related to the process may result in the rejection of its Proposal and may be subject to the provisions of CDRI's antifraud and corruption policy.
- 17.2 The ownership of the raw data collected by the Agency during the study and the deliverables including documents, maps, images, processed data, etc. will rest with CDRI. The Agency will keep the data and work products confidential and will share them only

with the express permission of CDRI.

- 17.3 The information/data and the report of the study shall not be disclosed to any third party and any right for disclosure will remain with CDRI.

18. Geospatial data and documentation standards

- 18.1 The project must use open-source formats and software for creation and storage of Geo-Spatial information to enable future access and reuse of data. The minimum requirements to be followed for all geospatial (GIS) data are:
- 18.1.1 Vector data: Geospatial vector data must be delivered in ESRI Shape File format and SpatiaLite database format. Additional formats may be used with approval. Styling information should be provided in SLD format. All files must include projection parameters.
- 18.1.2 Raster data: Geospatial raster data must be delivered in GeoTIFF. Additional formats may be used with approval. Styling information should be provided in SLD format. All files must include projection parameters.
- 18.1.3 Metadata: Detailed documentation needs to be provided for each data set. The metadata must include description, source, contact, date, accuracy, restrictions. A description of the attribute name and attribute values needs to be provided for vector and tabular data sets. The metadata will be delivered in an XML format following ISO 19139.
- 18.1.4 All spatial data should meet OGC <http://www.opengeospatial.org/standards>. All data should be geo referenced and projected in WGS 84 UTM zones. Metadata documentation shall be produced in an approved format compatible with the Federal Geographic Data Committee. FGDC-STD-001-1998. Content standard for digital geospatial metadata (revised June 1998). Federal Geographic Data Committee. Washington, D.C.

PART-II DATA SHEET

S. No.	Ref. clause in Instruction to Agencies	Particulars
1	2.1	Name: Coalition for Disaster Resilient Infrastructure (CDRI)
2	2.2	Name of the Assignment: “Global Urban Infrastructure Resilience Study”
3	2.5	A pre-proposal meeting will be held: Yes Via Video Conference. To attend the meeting, please email the representative below requesting a link to the meeting. on (Thursday 15 July 2021 at 1600-1700 hrs) CDRI’s representative: Mr. Deepak Rawat, Manager, Procurement Address: 4 th & 5 th Floor, Shriram Bhartiya Kala Kendra, 1 Copernicus Marg, New Delhi 110001, India Telephone: +91-11-4044-5999 Mobile: +91 8527536175 E-mail: deepak.rawat@cdri.world
4	3.1 and 7.3	Joint Venture – Allowed
5	2.3, 12.1.ii, and 14.4	Date & time and address for submission of proposals/bids: Date: (30 July 2021) Time: (1700 IST) Address: Bids to be submitted via Email to tender.projects@cdri.world [Please call CDRI’s representative to confirm receipt of email and attachments.]
6	2.6	Inputs from CDRI: Nil
7	7.5	Participation of Sub-Agencies, Key Experts and Non-Key Experts in more than one Proposal is permissible: No
8	8.1	Proposals must remain valid 90 days after the final submission date.

9	4.1	<p>Clarifications may be requested not later than one week before the final submission date i.e., (23 July 2021)</p> <p>The address for requesting clarifications is:</p> <p>E-mail: tender.projects@cdri.world</p>
10	9.3.1	<p>The estimated number of professional months required for the Assignment/job is as indicated in the ToR.</p>
11	7.1, 9.4, 9.5 and 9.6	<p>As per Formats given in Section 3.</p> <p>Pre-qualification Documents: (PDF/ Folder A)</p> <ol style="list-style-type: none"> 1. PQ1: Power of Attorney to sign the Proposal 2. PQ2: Affidavit certifying that Agency (consulting firm)/ director(s) of consulting firm are not blacklisted 3. Registration / incorporation documents 4. Documents of association / consortium / joint venture 5. Year-wise annual turnover details for the last 3 financial years (from 2017-18) with supporting documents. <p>The formats of the Technical Proposal to be submitted are: (PDF/ Folder B)</p> <p>Form Tech 1: Letter of Proposal submission Form Tech 2: Agency's organization & experience Form Tech 3: Comments & suggestions on TOR Form Tech 4: Approach & methodology Form Tech 5: Team composition Form Tech 6: Curriculum vitae Form Tech 7: Staffing Schedule Form Tech 8: Work Schedule Form Tech 9: Comment / modification suggested on draft contract. Form Tech 10: Declaration of Conflict of Interest</p> <p>The Formats of the Financial bid to be submitted are: (PDF/Folder C)</p> <p>Form Fin 1 Form Fin 2</p>
12	12	<p>Earnest Money Deposit Amount = INR 5,00,000/- (Rs. Five Lakh Only)</p>
13	13	<p>Performance Guarantee Amount = 5% of total cost of project</p>
14	11.1	<p>Agency to state the cost in Indian Rupees and US dollars</p>
15	14.3	<p>Considering advisories for COVID-19, the following steps are being followed by CDRI in the tendering process:</p> <p>Bids should be prepared with soft/scanned copies of all necessary documents and converted into four separate PDF files – each having different passwords. File</p>

	<p>must be named as given below. The three PDF should be put in a single zip file and uploaded onto any cloud service and the download link should be sent to the email, by the last date, given in this Data Sheet.</p> <p>[Agency name] _ EMD transfer slip (without password protection) [Agency name] _ Pre-Qualification (PASSWORD protected file) [Agency name] _ Technical Bid (PASSWORD protected file) [Agency name] _ Financial Bid (PASSWORD protected file)</p> <p>EMD transfer slip: Due to lockdown imposed on various parts of the country and suspension of postal services, online transfer is selected for EMD deposit. An interest free EMD amount as per Data Sheet Cl.13, should be deposited to the following Bank Account of CDRI 1 day before bid submission date.</p> <p>Account holder's name: CDRIS, Account No. 39172788686, State Bank of India, IFS code: SBIN0000691 Branch: New Delhi Main Branch 11, Parliament Street New Delhi, NCT of Delhi-110001, Ph.: 011 23374140</p> <p>Agency should make a single PDF of "Online Transaction Slip" and scanned copy of 'Agency's cancelled Cheque'. EMD of unsuccessful Agencies shall be returned to the Account Number given in the cancelled cheque. Bids without EMD deposit slips shall be rejected.</p> <p>Pre-Qualification Documents: In Prequalification documents, Agencies are required to provide scanned copies of all the document as per the instructions provided in the tender document along with scanned copies of supporting documents.</p> <p>Technical Bid: In Technical bid, Agencies are required to provide scanned copies of all the document as per the instruction provided in the Instructions to Agency along with scanned copies of supporting documents.</p> <p>Financial Bid: In the Financial bid, Agencies are required to provide Signed and Stamped scanned copy of their Financial proposal as per Instructions to Agency strictly according to Section 3, without any cutting or overwriting.</p> <p>Proposals will be submitted via EMAIL to the address as mentioned in the Data Sheet Cl. 5, with subject line: Proposal: "I Global Urban Infrastructure Resilience Study [Agency Name]".</p> <p>The email should include all four PDF files listed above as attachment. Only one email should be sent by each Agency. Multiple emails may lead to disqualification of Agency. If the file size does not allow for transmission via email, a web-link may be provided for files to be downloaded from any cloud service. The Agency may</p>
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		<p>call the Contact Person mentioned in Data Sheet to inform CDRI of the submission and receive acknowledgement of download files, via email.</p> <p>PASSWORD MUST NOT TO BE SHARED ALONG WITH BID SUBMISSION. If the password is shared along with bid submission, then it may be treated as rejected.</p> <p>The Passwords for Pre-Qualification Documents and Technical Bid pdf file are to be submitted on the same email id by 1200Hrs. on 1 day after final bid submission date; and same may be confirmed on the phone to representative of CDRI mentioned in Data Sheet.</p> <p>Use Times Roman Font for sending Password to ensure readability.</p> <p>In case of failure of sending the password, or providing the incorrect password, in stipulated time and date, bid may be treated as cancelled.</p> <p>Password of Financial bid will be requested after the evaluation of Technical bid. Date and time of sending password will be intimated accordingly and failure of which will result in cancellation of financial bid.</p> <p>Agencies are required to maintain record of their “Passwords” during the bidding process and provide the same only to the representative of CDRI as per this Data Sheet, as and when requested.</p>
16	15.4 and 15.6	<p>The Consulting firm or consortium will be selected following a Quality Cum Cost Basis (QCBS) of selection, and form of contract would be Lump-sum Performance Based Contract.</p> <p>Evaluation Criteria for Qualification Documents (Envelope A):</p> <ol style="list-style-type: none"> 1. Minimum Eligibility Criteria The Agency should have all the legal permissions to bid and undertake work in India. The Agency, at their own cost, should manage coordination with the CDRI Secretariat, and if required willing to travel and work with awareness about restrictions of COVID-19. 2. Financial Eligibility: The Agency should have a minimum average turnover of INR 20,00,00,000 or equivalent) for the last 3 financial years. Academic and research institutions may be exempted. 3. Technical Eligibility: The Agency must have experience of at least 5 years in conducting similar projects with International/national governments/research institutions and/or large multi-national organizations. (Self-declaration will suffice). 4. Right to assess: If the Agency is a consortium including an academic/research institution as lead organization, then CDRI reserves right to assess the technical and financial feasibility of such consortium on case basis. <p>The Agencies whosoever qualify in pre-qualification, their Technical bids shall be evaluated as follows:</p>

Evaluation Criteria for Technical Bids:					
1. Table for evaluation of RFPs:					
S no.	Criteria	Max points	Points	Rating Multiplier	Final Score
1.	Consultancy Firm's specific experience	30 points		Not applicable	
	Number of completed/ongoing (>75% completed*) Projects in urban and infrastructure resilience Minimum Value = INR 7,50,00,000/-	8 Marks (2 Mark for each project)		1	
	Number of completed/ongoing (>50% completed*) projects in urban infrastructure planning and management. Minimum Value = INR 5,00,00,000/-	8 Marks (2 Mark for each project)		1	
	Number of completed / ongoing (>50% completed*) projects in disaster risk reduction; preparedness and planning or risk assessment Minimum Value = INR 2,50,00,000/-	6 Marks (2 Mark for each project)		1	
	Completed / ongoing (>50% completed*) projects involving multiple stakeholders (Govt + private + INGO/MDB etc.)	3 Marks (1 Mark for each project)		1	
	Number of completed / ongoing (>50% completed*) International Projects (outside India)	5 Marks (1 Mark for each project)		1	
	<i>*(Onus of providing proof of >50% completion lies with the Agency. Decision of Core Committee shall be final.)</i>				
2.	Qualifications and relevant experience of Key Staff	30 points		Not applicable	
	Team Leader (TL) / Project Manager (PM)	7		1	
	Deputy TL	4		1	
	Researcher	3		1	
	Infrastructure Resilience Lead Specialist	5		1	
	Urban Resilience Lead Specialist	5		1	

		Infrastructure Resilience Specialist	3		1																							
		Infrastructure Resilience Specialist	3		1																							
		3 Methodology	40 points		As per 3. Methodology criteria																							
		Understanding of ToR	5																									
		Acceptability and detailing of methodology and work plan;	20																									
		Approach for project roll out and operations	5																									
		Team Composition and Work Allocation	5																									
		Innovation and future perspective	5																									
		<p>2. The Qualifications and relevant experience of Key Staff will be evaluated based on the following sub-criteria:</p> <table border="1"> <thead> <tr> <th>Sub criteria</th> <th>Sub-Points (% of max points)</th> <th>Consideration</th> </tr> </thead> <tbody> <tr> <td>Educational qualification (in field relevant to the allotted role)</td> <td>25%</td> <td>100% for PHD or Masters 60% for Bachelor's degree</td> </tr> <tr> <td>Professional project experience (in the required area of assignment)</td> <td>50%</td> <td>Relevant projects of at least 6-month duration: 10 projects – 100 % 8 projects – 80 % 6 projects – 60 % 4 projects – 40 % 2 projects – 20 %</td> </tr> <tr> <td>International experience</td> <td>25%</td> <td>5 + years – 100% 3 to 5 years – 75% 1 to 3 years – 50% 0 years – 0%</td> </tr> </tbody> </table> <p>3. The Methodology criteria will be multiplied by a Rating Multiplier to get the final score. The rating multiplier will be based on the level of responsiveness of the proposal to the requirement. The multiplier will be as follows:</p> <table border="1"> <thead> <tr> <th>Level of Responsiveness</th> <th>Rating Multiplier</th> </tr> </thead> <tbody> <tr> <td>Poor</td> <td>25 % (0.25)</td> </tr> <tr> <td>Satisfactory</td> <td>50 % (0.50)</td> </tr> <tr> <td>Good</td> <td>75 % (0.75)</td> </tr> <tr> <td>Excellent</td> <td>100 % (1.0)</td> </tr> </tbody> </table>					Sub criteria	Sub-Points (% of max points)	Consideration	Educational qualification (in field relevant to the allotted role)	25%	100% for PHD or Masters 60% for Bachelor's degree	Professional project experience (in the required area of assignment)	50%	Relevant projects of at least 6-month duration: 10 projects – 100 % 8 projects – 80 % 6 projects – 60 % 4 projects – 40 % 2 projects – 20 %	International experience	25%	5 + years – 100% 3 to 5 years – 75% 1 to 3 years – 50% 0 years – 0%	Level of Responsiveness	Rating Multiplier	Poor	25 % (0.25)	Satisfactory	50 % (0.50)	Good	75 % (0.75)	Excellent	100 % (1.0)
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Good	75 % (0.75)																											
Excellent	100 % (1.0)																											
17	15.5	<p>Method of Selection:</p> <p>Agencies scoring more than 70% in the technical evaluation shall be considered for financial evaluation.</p>																										

		<p>75% weightage will be awarded for Technical Proposal and 25% weightage will be awarded for Financial Proposal.</p> <p>Technical Bid will be assigned a Technical score (Ts) out of a maximum of 100 points, as per the Scoring Model provided in the previous section.</p> <p>The commercial scores would be normalized on a scale of 100, with lowest score being normalized to 100 and the rest being awarded on a pro-rata basis. Such normalized scores would be considered for the purpose of QCBS based evaluation, explained in section below.</p> <p>The individual Agency's Financial Scores (Fn) are normalized as per the formula below:</p> <p>$F_n = F_{min}/F_b * 100$ (rounded off to 4 decimal places) Where, F_n = Normalized commercial score for the Agency under consideration F_b = Absolute financial quote for the Agency under consideration F_{min} = Minimum absolute financial quote</p> <p>Formula for final evaluation: Composite Score (S) = $T_s * 0.75 + F_n * 0.25$</p> <p>The Agency with the highest Composite Score (S) would be considered for award of contract and will be called for negotiations, if required.</p>
18	16.2	<p>Expected date for commencement of consulting Assignment/job is: 30 August 2021</p>
19	16.2	<p>Location for performance assignment / job: Review meetings to be held at CDRI Secretariat or a place suggested by CDRI.</p>

SECTION 3: STANDARD FORMS

PQ 1: Format for Power of Attorney for Signing of Application

1.1 POWER OF ATTORNEY

We (name and address of the registered office) do hereby constitute, appoint, and authorize Mr. / Ms. (name and residential address) who is presently employed with us and holding the position of _____ as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our application assisting Coalition for Disaster Resilient Infrastructure to [Name of the Assignment] under CDRI's three-year work plan (the "Project"), including signing and submission of all documents and providing information / responses to CDRI, representing us in all matters before CDRI, and generally dealing with CDRI in all matters in connection with our bid for the said Project.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

For _____

(Signature)

(Name, Title and Address)

Accepted

..... (Signature)

(Name, Title and Address of the Attorney)

Note:

- To be executed by the Lead Member in case of a Consortium.
- The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required the same should be under common seal affixed in accordance with the required procedure.
- In case the Application is signed by an authorised Director of the Applicant, a certified copy of the appropriate resolution/ document conveying such authority may be enclosed in lieu of the Power of Attorney.

**PQ2: Format for affidavit certifying that Agency (consulting firm)/
director(s) of consulting firm are not blacklisted**

(On a Stamp Paper of relevant value) Affidavit

I M/s. (Sole Applicant / Lead Member/ Other Member /s)), (the names and addresses of the registered office) hereby certify and confirm that we or any of our promoter/s / director/s are not barred or blacklisted by any state government or central government / department / agency/PSU in India or abroad from participating in Project/s, either individually or as member of a Consortium as on_____.

We further confirm that we are aware our Application for the captioned Project would be liable for rejection in case any material misrepresentation is made or discovered with regard to the requirements of this RFP at any stage of selection and/or thereafter during the Contract period.

Dated thisDay of....., 2020

Name of the Applicant

..... Signature
of the Authorized Person

.....
Name of the Authorized Person

FORM TECH-1

LETTER OF PROPOSAL SUBMISSION

[Location, Date]

To: [Name and address of CDRI]

Dear Sir/Madam:

We, the undersigned, offer to provide the consulting Assignment/job for [Insert title of Assignment/job] in accordance with your Request for Proposal dated [Insert Date] and our Proposal. We are hereby submitting our Proposal, which includes the Pre-Qualification Documents, Technical Proposal, and a Financial Proposal in password protected PDFs and requisite EMD.

We are submitting our Proposal in association with: [Insert a list with full name and address of each associated firm]

We hereby declare that all the information and statements made in this Proposal are true and accept that any misinterpretation contained in it may lead to our disqualification.

Our Proposal is binding upon us and subject to the modifications resulting from Contract negotiations.

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Authorized Signature [In full and initials]:

Name and Title of Signatory:

Name of Firm:

Address:

FORM TECH-2

AGENCY'S ORGANIZATION AND EXPERIENCE

A - Agency's Organization

[Provide here a brief description of the background and organization of your firm/entity and each associate for this Assignment/job. The brief description should include ownership details, date and place of incorporation of the firm, objectives of the firm etc. Also, if the Agency has formed a consortium, details of each of the member of the consortium, name of lead members etc. shall be provided]

B - Agency's Experience

[Using the format below, provide information on each Assignment/job for which your firm, and each partner in the case of consortium or joint venture, was legally contracted either individually as a corporate entity or as one of the major partners within an association, for carrying out consulting Assignment/job similar to the ones requested under this Assignment/job. In case of consortium, association of Agency, the Agency must furnish the following information for each of the consortium member separately]

1. Firm's name:

1	Assignment/job name:	
1.1	Description of Project	
1.2	Approx. value of the contract (in Rupees):	
1.3	Country:	
1.4	Location within country:	
1.5	Duration of Assignment/job (months) :	
1.6	Name of Employer:	
1.7	Address:	
1.8	Total No of staff-months of the Assignment/job:	

1.9	Approx. value of the Assignment/job provided by your firm under the contract (in Rupees):	
1.10	Start date (month/year):	
1.11	Completion date (month/year):	
1.12	Name of Agencies involved in the project who will also be involved in the CDRI project, if any:	

Note: Please provide documentary evidence from the client i.e copy of letter of award or contract or work order or completion certificate for each of above-mentioned assignment. The experience shall not be considered for evaluation if such requisite support documents are not provided with the proposal.

FORM TECH-3

COMMENTS AND SUGGESTIONS ON THE TERMS OF REFERENCE AND ON COUNTERPART STAFF AND FACILITIES TO BE PROVIDED BY CDRI

A - On the Terms of Reference

[Suggest and justify here any modifications or improvement to the Terms of Reference you are proposing to improve performance in carrying out the Assignment/job (such as deleting some activity you consider unnecessary, or adding another, or proposing a different phasing of the activities). Such suggestions should be concise and to the point and incorporated in your Proposal.]

B - On inputs and facilities to be provided by CDRI

[Comment here on Inputs and facilities to be provided by CDRI according to Paragraph 6 of the Part II Special information to Agencies including: administrative support, office space, Domestic transportation, equipment, data, etc.]

FORM TECH-4

DESCRIPTION OF APPROACH AND METHODOLOGY FOR PERFORMING THE ASSIGNMENT/JOB

[Approach, methodology and work-plan are key components of the Technical Proposal. You are suggested to present your Technical Proposal divided into the following three chapters:

- a) Technical Approach and Methodology,
- b) Work Plan, and
- c) Organization and Staffing,

a) Technical Approach and Methodology. In this chapter you should **explain your understanding** of the objectives of the Assignment/job, approach to the Assignment/job, methodology for carrying out the activities and obtaining the expected output, and the degree of detail of such output. You should highlight the problems being addressed and their importance and explain the technical approach you would adopt to address them. You should also explain the methodologies you propose to adopt and highlight the compatibility of those methodologies with the proposed approach.

b) Work Plan. The Agency should **propose and justify** the main activities of the Assignment/job, their content and duration, phasing and interrelations, milestones (including interim approvals by CDRI), and delivery dates of the reports. The proposed work plan should be consistent with the technical approach and methodology, showing understanding of the TOR and ability to translate them into a feasible working plan. A list of the final documents, including reports, drawings, and tables to be delivered as final output, should be included here. The work plan should be consistent with the Work Schedule of Form TECH-8.

c) Organization and Staffing. The Agency should **propose and justify** the structure and composition of your team. You should list the main disciplines of the Assignment/job, the key expert responsible, and proposed technical and support staff.

Note: Please provide details for category a, b and c separately and ensure the total (a+b+c) pages do not exceed 50 pages.

[Among the Assignment/jobs in which the staff has been involved, indicate the following information for those Assignment/jobs that best illustrate staff capability to handle the tasks listed under point 12.]

Name of Assignment/job or project:

Year:

Location:

Employer:

Main project features:

Positions held:

Activities performed:

14. Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience. I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.

Date:

[Signature of staff member or authorized

Place:

representative of the staff]

[Full name of authorized representative]:

FORM TECH-7

STAFFING SCHEDULE

S.No.	Name of Staff	Staff input (in the form of a bar chart)					
		Total Months					
		1	2	3	4	5	6

- 1.
- 2.
- 3.

Note:

- 1 For Key Experts the input should be indicated individually; for Non-Key Support Staff it should be indicated by category (e.g.: draftsmen, clerical staff, etc.).
- 2 Months are counted from the start of the Assignment/job. For each staff indicate separately staff input for home and field work.

FORM TECH-8

ACTIVITY/WORK SCHEDULE

S.No.	Activity	Months (in the form of a bar chart)						Total Months
		1	2	3	4	5	6	
1.								
2.								
3.								

Note:

1. Indicate all main activities of the Assignment/job, including delivery of reports (e.g.: inception, interim, draft, and final reports), and other benchmarks such as CDRI's approvals. For phased Assignment/jobs indicate activities, delivery of reports, and benchmarks separately for each phase.
2. Duration of activities shall be indicated in the form of a bar chart.

FORM TECH-9

**COMMENTS / MODIFICATIONS SUGGESTED ON DRAFT
CONTRACT**

[Here the Agency shall mention any suggestion / views on the draft contract attached with the RFP document. The Agency may also mention here any modifications sought by them in the provisions of the draft contract. However, CDRI is not bound to accept any/all modifications sought and may reject any such request of modification. All changes to the draft shall be documented and discussed at the time of award of contract.]

FORM TECH-10

INFORMATION REGARDING ANY CONFLICTING ACTIVITIES AND DECLARATION THEREOF

Are there any activities carried out by your firm or group company or any member of the consortium which are of conflicting nature as mentioned in para 5 of section 2. If yes, please furnish details of any such activities.

If no, please certify,

We hereby declare that our firm, our associate / group firm or any of the member of the consortium are not indulged in any such activities which can be termed as the conflicting activities under para 5 of the section 2. We also acknowledge that in case of misrepresentation of the information, our proposals / contract shall be rejected / terminated by CDRI which shall be binding on us.

Authorized Signature [In full and initials]:
Name and Title of Signatory:
Name of Firm:
Address:

FORM FIN-1

FINANCIAL PROPOSAL SUBMISSION FORM

[Location, Date]

To: [Name and address of CDRI]

Dear Sir/Madam:

We, the undersigned, offer to provide the consulting services for Assisting Coalition for Disaster Resilient Infrastructure to [Name of the Assignment] under CDRI's three-year work plan in accordance with your Request for Proposal dated [Insert Date] and our Technical Proposal.

Our Financial Proposal is for the sum of Rs. _____/- [Insert amount(s) in words and figures]. This amount represents the total cost of the project and is inclusive of all taxes. The estimated amount of taxes is Rs. _____ [Insert amount in words and figures] which may be confirmed or adjusted, if needed.

We hereby confirm that the financial proposal is unconditional, and we acknowledge that any condition attached to financial proposal shall result in rejection of our financial proposal. Our Financial Proposal shall be binding upon us up to expiration of the validity period of the Proposal, i.e., before the date indicated in Clause 8 of the Part II - Data Sheet.

Commissions and gratuities, if any, paid or to be paid by us to an agent or any third party relating to preparation or submission of this Proposal and Contract execution if we are awarded the Contract, will be solely borne by us. CDRI is not bound to reimburse these expenses to us.

We understand you are not bound to accept any Proposal you receive.

We remain,

Yours sincerely,

Authorized Signature [In full and initials]:

Name and Title of Signatory:

Name of Firm:

Address:

FORM FIN-2

SUMMARY OF COST PER DELIVERABLE

S. No.	Deliverables	% of project cost per deliverable
1		
2		
3		
4		
5		
6		
7		
8		

Note: Agency must state the proposed Costs in accordance with the **Data Sheet**. **A city wise break-down should be part of the cost summary.**

The Agency should include any other costs relevant to the Project. Taxes, if any, should be shown separately.

SECTION 4: TERMS OF REFERENCE (ToR)

GLOBAL URBAN INFRASTRUCTURE RESILIENCE STUDY

1. Introduction

Urban areas are already home to 55 per cent of the world’s population, and that figure is expected to grow to 68 per cent by 2050.¹ Human wellbeing in cities relies on a complex web of interconnected institutions, infrastructure and information. People are drawn to cities as centres of economic activity, opportunity, and innovation. But it is also in cities where stresses accumulate, and/or sudden shocks occur that may result in social breakdown, physical collapse or economic deprivation. That is, unless a city - and the systems it depends on - are resilient.

According to World Bank (2019), infrastructure disruptions impose costs between \$391 billion and \$647 billion a year in low and middle-income countries. In some countries natural hazards are responsible for up to 70 percent of the disruptions.¹ Anthropogenic climate change has increased observed precipitation, winds, and extreme sea level events associated with some tropical cyclones, which has increased intensity of multiple extreme events and associated cascading impacts.² Investing in disaster risk reduction is thus a precondition for developing sustainably in a changing climate. As more than half the world lives in urban spaces, lack of planning for extreme events could devastate urban populations, especially if the infrastructure in place to cope with them is inadequate and lacking resilience. A recent report by the Global Commission on Adaptation suggested that investing €1.6 trillion globally from 2020 to 2030 in risk reduction activities could avoid as much as €6.4 trillion in future losses.**Error! Bookmark not defined.**

In recognition of the growing importance of urban infrastructure resilience, this study commissioned by the Coalition for Disaster Resilient Infrastructure (CDRI) aims to assess the state of urban infrastructure resilience across a range of city types, creating a scalable template for assessment and Improvement of urban infrastructure resilience globally.

¹ UNDRR (2020) Options for Addressing Infrastructure Resilience <https://www.undrr.org/media/47069/download>

² Collins M., M. Sutherland, L. Bouwer, S.-M. Cheong, T. Frölicher, H. Jacot Des Combes, M. Koll Roxy, I. Losada, K. McInnes, B. Ratter, E. Rivera-Arriaga, R.D. Susanto, D. Swingedouw, and L. Tibig, 2019: Extremes, Abrupt Changes and Managing Risk. In: IPCC Special Report on the Ocean and Cryosphere in a Changing Climate [H.-O. Pörtner, D.C. Roberts, V. Masson-Delmotte, P. Zhai, M. Tignor, E. Poloczanska, K. Mintenbeck, A. Alegría, M. Nicolai, A. Okem, J. Petzold, B. Rama, N.M. Weyer (eds.)]. In press.

2. Background

Over the last twenty years, 7,348 disaster events were recorded worldwide by EM-DAT. In total, as seen in Figure 1, disasters claimed approximately 1.23 million lives, an average of 60,000 per annum, and affected a total of over 4 billion people (many on more than one occasion). Additionally, disasters led to approximately US\$ 2.97 trillion² in economic losses worldwide.³

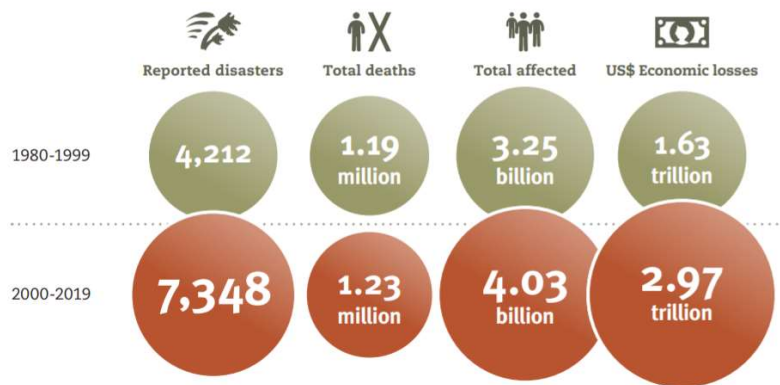


Figure 12: Disaster Impacts: 1980-1999 vs. 2000-2019 © UNDRR

While better recording and reporting may partly explain some of the increase in events, much of it is due to a significant rise in the number of climate-related disasters. There is clear evidence that in a world where the global average temperature in 2019 was 1.1°C above the preindustrial period, the impacts are being felt in the increased frequency of extreme weather events including heatwaves, droughts, flooding, winter storms, hurricanes and wildfires. While improvements have been made in terms of early warnings, disaster preparedness and response, which have led to a reduction in loss of life in single-hazard scenarios, it is also clear that the increasingly systemic nature of disaster risk, i.e. the overlap of events and the interplay between risk drivers such as poverty, climate change, air pollution, population growth in hazard-exposed areas, uncontrolled urbanization and the loss of bio-diversity, requires greater strengthening of infrastructure resilience, particularly in cities.

³ UNDRR (2019) Human cost of disasters - An overview of the last 20 years accessed at https://www.preventionweb.net/files/74124_humancostofdisasters20002019reportu.pdf

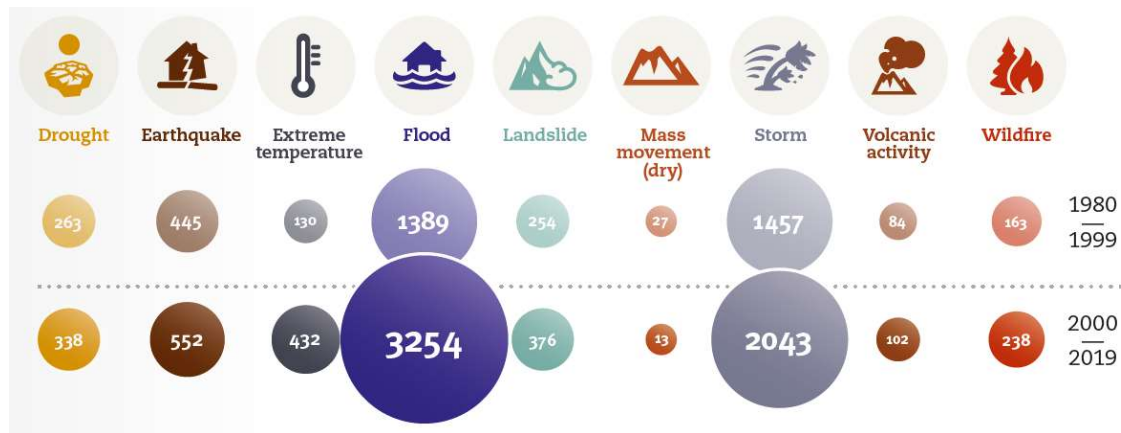


Figure 2: Total disaster events by type: 1980-1999 vs. 2000-2019 © UNDRR

Infrastructure and cities

People in cities depend on infrastructure and public services. It is difficult for the population to meet their daily needs if the electricity is cut, bridges have collapsed, telephones don't work, and/or water mains are broken. Essential services such as health care and firefighting are especially important after a disaster. After the Mexico City earthquake in 1985, the collapse of hospital buildings killed trained personnel, seriously hampering health services.⁴

From 2016 through 2030, the world needed to invest about 3.8 percent of GDP, or an average of \$3.3 trillion a year, in economic infrastructure just to support expected rates of growth. Emerging economies account for some 60 percent of that need. But if the current trajectory of underinvestment continues, the world will fall short by roughly 11 percent, or \$350 billion a year. The size of the gap triples if we consider the additional investment required to meet the new UN Sustainable Development Goals.⁵ Countries all over the world need to invest heavily in infrastructure to meet the needs of their citizens and underpin productivity throughout their economies.

Rapid urbanization in developing countries, and continued urbanization in advanced economies, will be the biggest driver of infrastructure spending over the next few decades. Today, 3.5 billion, 50% of the world's population, live in cities. By 2030 that will have risen to 5 billion, 60% of the population. This rise will require sustained infrastructure investment in railroads, highways, bridges, ports, airports, water, power, energy and telecommunications, creating massive opportunities for multinational contractors and their international and local suppliers. Worldwide, there is an unprecedented appetite for infrastructure investments from the private investment community. International financial institutions (IFIs) like the World Bank and the

⁴ Rojas Enríquez, Carlos A. (1987) <http://cidbimena.desastres.hn/docum/crid/Febrero2005/pdf/spa/doc187/doc187.htm>

⁵ McKinsey Global Institute (2016) Bridging Global Infrastructure Gaps accessed at <https://www.un.org/pga/71/wp-content/uploads/sites/40/2017/06/Bridging-Global-Infrastructure-Gaps-Full-report-June-2016.pdf>

European Investment Bank⁶ are also increasing their funding at sub-sovereign, city levels. However, in the face of increasing shocks and stresses it is not only infrastructure investment that is needed but resilient infrastructure investment.

Key Terminology

Resilience

Resilience is defined as 'the ability of a system, community or society exposed to hazards to resist, absorb, accommodate to and recover from the effects of a hazard in a timely and efficient manner, including through the preservation and restoration of its essential basic structures and functions.'

Typically, a Disaster Risk Reduction approach seeks to treat and reduce risk (hazard x exposure x vulnerability) of particular assets and/or people, from specific, known hazards⁷. DRR/DRM has traditionally focused on natural hazards such as earthquakes, flood etc. but has evolved to also include human-induced hazards like war and pandemics. With resilience the focus is on building underlying capacity of a system to manage uncertainty, including a range of hazards, both known and unknown and various combinations of hazards and threats which may include economic (financial crisis, unemployment), social (labour strike, unrest) etc.⁸ A resilience approach places additional emphasis on the facilitation of adaptation in the face of disruption. DRR/DRM and resilience can be considered complementary approaches to reducing the impact of shocks and stresses.

Resilience focuses on enhancing the performance of a system in the face of multiple hazards, rather than preventing or mitigating the loss of assets due to specific events. While this study places additional focus on natural hazards, the focus will extend beyond traditional disaster risk reduction, which is founded on risk assessments that relate to specific hazards. Instead, such a resilience approach responds to the idea that a wide range of disruptive events – both stresses and shocks – can occur but these are not necessarily predictable in nature or intensity.

Characterization of infrastructure systems

A City system relies on the operation of a complex web of infrastructure, institutions, and information systems to perform the essential functions every day. Sub-city services are also complex systems of physical and non-physical assets, behaviours and people. For example, a water system includes physical water

⁶ Urban Development Sector EIB (accessed 2021) <https://www.eib.org/en/projects/sectors/urban-development/index.htm>

⁷ Global Facility for Disaster Reduction and Recovery <https://www.gfdr.org/en/publication/gfdr-annual-report-2020>

⁸ Jerry Velasquez, Director, Division of Mitigation and Adaptation, Green Climate Fund, 2015 - <https://www.linkedin.com/pulse/disaster-risk-reduction-resilience-jerry-velasquez>

infrastructure, natural and man-made hydrological features, people, behaviours and legislation and standards ranging from labour standards, to building codes, to pricing policy.

Infrastructure systems can support human wellbeing directly, such as the provision of potable water. However, they can also support other infrastructure systems. For example: energy networks provide power to operate water pumping stations, sewerage treatment plants and hospitals. Any given system will be dependent upon other systems: energy systems depend upon public and private transport infrastructure for fuel supply and access and repair of critical assets. These interactions are commonly referred to as interdependencies. Understanding interdependencies can demonstrate how changes in performance under shock or stress can have far-reaching impacts beyond a single infrastructure system.

The Coalition for Disaster Resilient Infrastructure (CDRI) focuses on infrastructure “systems” over individual infrastructure “assets” to help countries develop risk management frameworks for different infrastructure classes and associated development. Cities around the world rely on a variety of infrastructure systems that support the wellbeing and growth of cities, their communities and economies. A “systems” view can help to better understand the essential functions that are provided by a combination of manmade assets, natural ecosystems, social resources, finance, regulatory systems (governance), markets (end user) and behaviours. (see Figure 3, below)

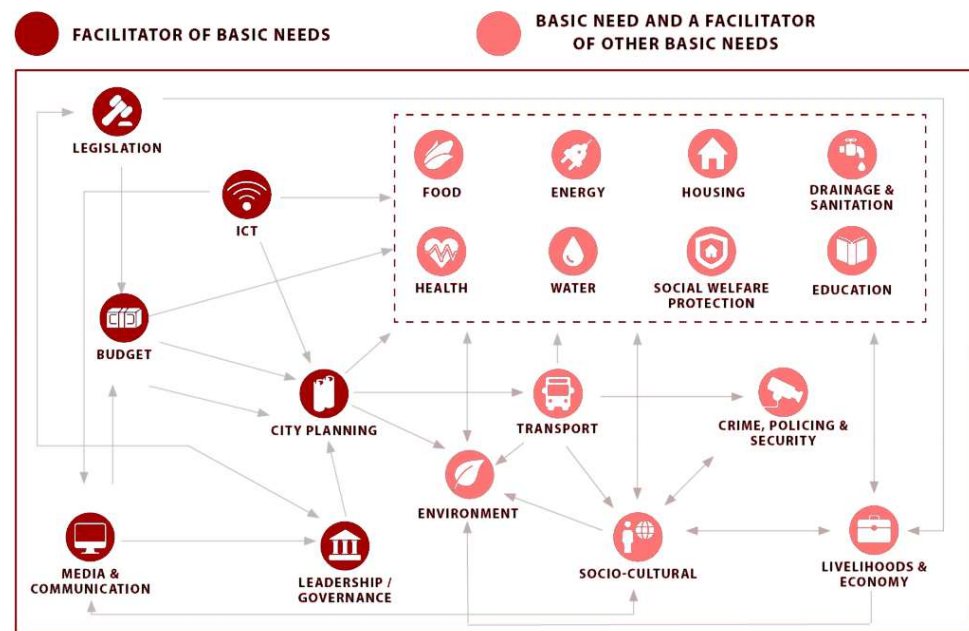


Figure 3: Diagram depicting interdependencies between infrastructure systems and wider urban systems © Arup

Infrastructure resilience can be tackled both upstream and downstream:

- Upstream agendas look beyond sectoral approaches and aim to create a pipeline of infrastructure investment which delivers resilience to a given location, and the ability to maintain critical service functionality with respect to infrastructure which protects, provides, and connects citizens.
- Downstream agendas look at a specific infrastructure sector and consider how to build or enhance resilience in that system, generally and/or to specific shocks and stresses.

In reality, cities need to consider both the resilience of specific new and existing infrastructure and the resilience of its infrastructure investment pipeline and wider institutional conditions which enable or hinder infrastructure resilience. By 2030 trillions of dollars will be invested in urban infrastructure, which must be directed towards zero-carbon and resilient development; nearly a billion people will be added to the global urban population, requiring low-carbon, resilient and inclusive places to live; and nearly half of CO₂ emissions must be reduced, with cities potentially delivering 58% of the energy-related emission reductions needed to keep the global temperature increase well below 2°C.i

It is not just physical infrastructure which needs to be developed and protected to ensure essential service provision. Ecosystems and natural resources form part of the complex web of a larger city system. Nature based solutions as an approach to green infrastructure (GI), can offer complementary or alternative measures to more traditional grey infrastructure solutions. A more holistic approach can ensure that infrastructure is more climate resilient.

At a point when there are multiple agendas or priorities at work simultaneously, cities need to ensure that their development strategies and investment decisions enhance, rather than undermine, the city's resilience. If governments, donors, investors, policymakers, and the private sector are to collectively support and foster more resilient cities, there needs to be a common understanding and emphasis on the opportunity for urban infrastructure to support the overall resilience of the city.

This study will therefore seek to critically understand the current level of infrastructure resilience within selected cities across different typologies and make recommendations that would strengthen the resilience of specific infrastructure systems and the enabling environment.

2. Purpose

The aim of this study is to provide an assessment of the current infrastructure resilience of global cities.

1. A primary aim from each resilience study will be to provide a list of priority actions for key stakeholders to address gaps and improve the resilience of specific infrastructure systems, also considering interdependencies between systems and the wider enabling environment and investment pipeline.
2. By examining cities across a range of sampling typologies, it is intended that this study will provide useful infrastructure resilience recommendations that can also be considered for relevance by cities of similar characteristics (geographic, hazard, population, economy etc.).
3. There will likely be a need for some adjustments in assessment methodology and recommendations considering contextual factors within each city typology. Such factors include available hazard and infrastructure data, city mandate, and the current level of progress of the city/regional administration in its infrastructure resilience agenda. The assessment will document these intricacies and create infrastructure assessment templates for other cities within each typology.
4. This study will aim to generate wider learning and findings which will inform the future work of CDRI and other actors in the fields of urban planning, infrastructure, and resilience, providing a

useful product for future knowledge sharing and advocacy.

3. Scope of Work

Overview

The primary lens of this urban resilience study will be through examination of the resilience of infrastructure systems which are critical to the functionality of cities and the wellbeing of their residents.

The study will explore the potential impact of natural hazards and climate change to urban infrastructure systems, including current exposure and vulnerability of critical infrastructure and consideration of critical interdependencies between urban infrastructure systems. The focus of this study will extend beyond physical infrastructure and consider wider complex socio-technical systems including people and behaviours, as well as the underlying institutional environment which governs and can help or hinder the resilience of infrastructure in these cities. This includes key infrastructure stakeholders, legislation, regulatory mechanisms, governance frameworks and organizational capacity, amongst other factors. Research will therefore explore:

1. *What is the current status of infrastructure provision across essential urban services?*
2. *What are the key shocks and stresses which threaten the resilience of urban infrastructure systems?*
3. *What is the current level of resilience of key urban infrastructure systems in the city including system physical and non-physical man-made and natural assets, people, processes and critical interdependencies?*
4. *What aspects of the wider urban enabling environment (stakeholders, legislation, regulatory mechanisms, governance frameworks and organizational capacity) currently help or hinder infrastructure resilience?*
5. *What is the current level of strategic city planning and investment to ensure infrastructure supply and resilience for future populations?*

While the study places additional focus on natural hazards, it will also by default address wider shocks and stresses through a resilience-based framework and thinking.

The study will produce an Infrastructure Resilience Assessment Report for each city which:

- Outlines the current city infrastructure resilience, addressing the research areas agreed. An indicative list is in Box 1 below.
- *Priority physical/operational recommendations* to increase the resilience of specific critical city infrastructure systems. This step will involve robust financial analysis and an investment pipeline.
- *Organisational measures* to increase the resilience of specific critical city infrastructure systems, considering the relationship and processes of key sector/system stakeholders.
- *Institutional recommendations* which may have broad application across city infrastructure systems, but which are grounded in local and national policy context.

Beyond the individual city studies, the project will also identify lessons learnt that will be synthesized within a global **Urban Infrastructure Resilience report**, which collates recommendations from an analysis by city typology and provides overarching physical, organizational and institutional infrastructure resilience recommendations.

Selection of Cities

This suite of studies should examine 20 global case study cities across different city typologies through primary and secondary research. One of the key objectives of this suite of studies is to develop recommendations that have relevance across different city types, as well as refining the assessment process per each typology. The criteria in Figure 4 provides a starting point for city selection and typology development, seeking to select cities of varying geographical region, hazard profile, population size and level of economic development. The assessment process requires significant city engagement, which is also critical in order for the city to implement ultimate changes as a result of the study. Therefore, city appetite for the study should be a final criterion in city selection and related pre-engagement work will likely be necessary. The exact cities will be agreed between the agency and CDRI at time of inception.

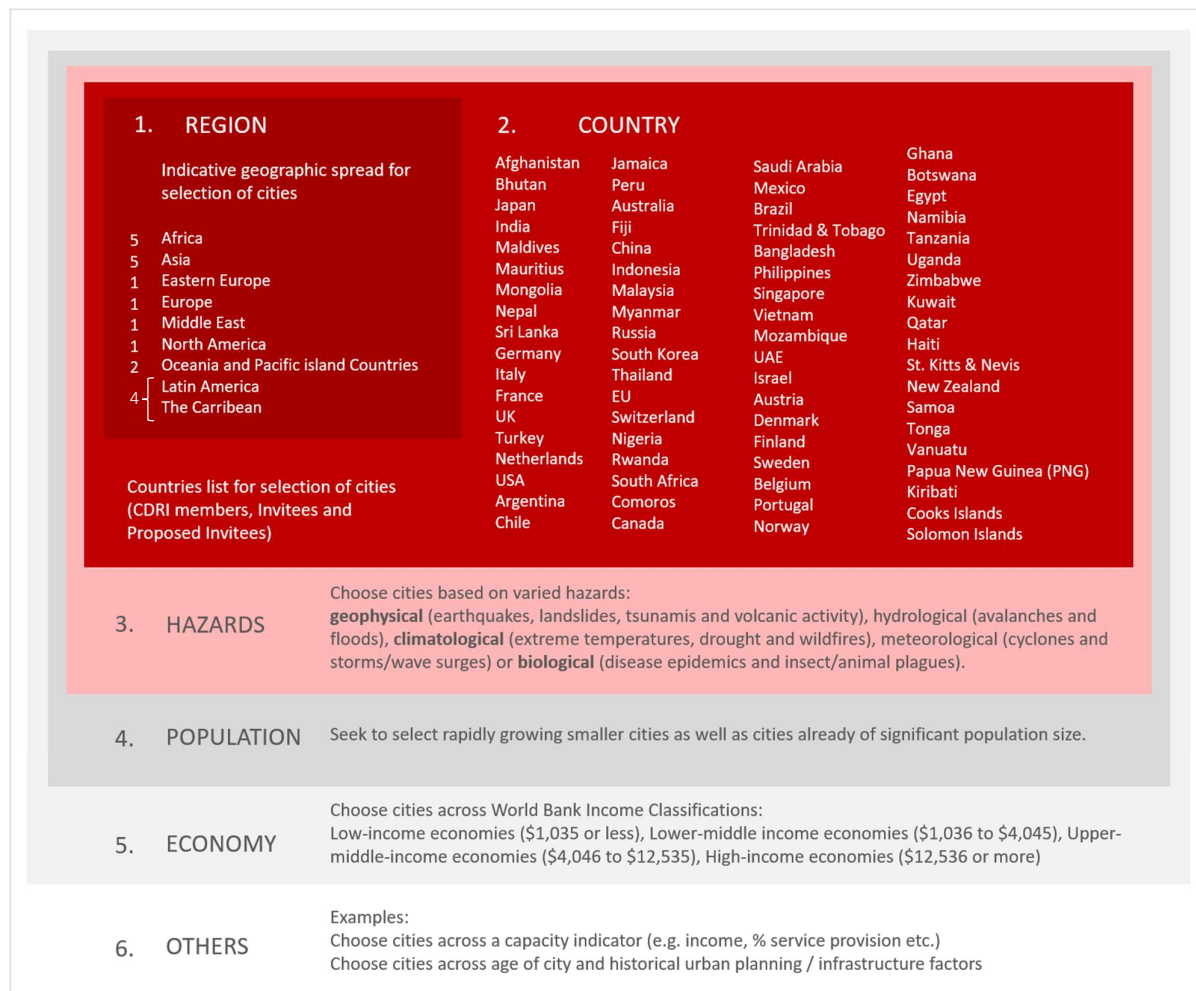


Figure 4: City Sampling Framework (indicative only)

Additional criteria for cities' selection

20 Cities are to be selected across CDRI Member Countries where the case studies can be carried out. This list should cover different hazards, sizes, topographies (refer figure 4). Apart from the above matrix, the Agency should ensure the following additional parameters are met when selecting the 20 cities:

1. Hazards: The cities' selection should cover a range of geophysical and climatological hazards. The selected cities must not be restricted to one type of hazard. Each city could be risk prone to single or multi-hazards.
2. Population: The selected cities should cover a range of population and should cut across small, medium and large cities as defined below:
 - a. Small city (< 100,000 inhabitants)
 - b. Medium city (100,000- 1 million inhabitants)
 - c. Large city (> 1 million inhabitants)
3. Economy: The selected cities should cover a range of economies and should cut across the categories indicated in the matrix (figure 4).
4. Topography: The cities' selection should cover a range of topographies including coastal, hilly etc. The selected cities must not be restricted to one type of topography.

Study Phases

This study will take place in five phases, each with a specific output. It is expected that besides these outputs, a regular communication channel will be maintained and updates on the status of the project provided to by the Agency.

1. Inception

The aim of the inception phase is to provide an opportunity for the client and agency to discuss the scope and planned activities. It will comprise of the following activities:

- *Inception meeting between agency and CDRI*
- *Discuss and agree city sampling criteria and typologies to be used to identify the cities that will be subject of this study*
- *Discuss proposed methodology and assessment framework and confirm key research questions as detailed at the start of this section.*
- *Discuss generic project stakeholders and engagement strategy*
- *Understand and agree key resources that the city will need to supply for the assessment*
- *Agree timeline, deliverables and quality assurance arrangements.*

Key outcome of this phase will be to agree the selection of cities for the study, the boundaries of the study and the research methodology as outlined in the successful proposal.

Box 1 : Potential areas for exploration of urban infrastructure resilience (indicative only)

- Key urban infrastructure systems, their function and interdependencies
- Major current/future hazards and threats to urban infrastructure systems, including existing exposure and vulnerability, potential impact of future climate change scenarios, and dependencies on other urban infrastructure systems.
- Physical and operational resiliency measures in place (for each infrastructure sector/system and with respect to wider systems interdependencies).
- Wider social, economic and environmental dependencies and interdependencies. E.g. the cascading socio-economic impacts and/or resiliency of a city related to the failure of water service, energy provision etc.
- City governance, finance and broader institutional arrangements which support or limit the level of resilience within city infrastructure systems (e.g. construction codes, emergency arrangements, coordination mechanisms, revenue streams etc).

The agency will apply the city sampling criteria agreed at the inception meeting and select the cities that will be subject of this study.

The findings from the individual city studies will need to be incorporated into a wider urban infrastructure resilience synthesis report transferring learnings to other cities globally with similar capabilities / needs / hazard profiles. The sampling criteria should allow useful categorization of cities for this purpose.

The Concept Note for Urban Infrastructure Resilience Studies which accompanies this ToR provides a summary of existing tools and frameworks intended to help the agency in developing its assessment

of the city's infrastructure resilience. The agency is expected to make preliminary recommendations on the assessment framework based on these existing tools, typological considerations and their own experience. Proposals for assessment framework to be used in this study will be finalised with CDRI, in consultation with urban infrastructure resilience stakeholders at the time of inception.

CDRI will establish a core Technical Advisory Committee (TAC) from with stakeholders and subject experts to contribute to provide overall guidance and approval of the deliverables across the following activities. The assessment framework will require TAC approval before progressing to the next stage.

Output: Inception Report including the proposed selection of cities to be covered by the study and proposals for the assessment/study framework.

2. Desktop research

The aims of desktop research are to gain a robust understanding of the urban infrastructure context in the selected cities, to gather qualitative or quantitative data to support the assessment and to identify gaps in availability of data. Exact process will be confirmed at inception but it is anticipated that desktop research would examine – but will not be limited to - the following:

- *Urban infrastructure systems (including key physical, natural and human assets) and their essential functions as well as current levels of service provision*
- *Understanding the city's hazard profile (including review of existing data and maps, past disasters such as cyclone, flooding, earthquake etc and their impact on infrastructure systems)*
- *Infrastructure mapping, understanding zoning and land use and its impact on urban infrastructure in the context of disaster and climate risks*
- *Review of existing hazard and risk studies, including climate risk assessments*
- *Review of current infrastructure resilience strategies, plans, policies, business continuity arrangements across infrastructure lifecycle*
- *Understanding the wider institutional context (institutional processes, legal frameworks, governance, infrastructure planning and investment pipeline etc.)*
- *Stakeholder mapping per key infrastructure system which identifies key infrastructure and resilience stakeholders*
- *Identification of key risk and resilience challenges for urban infrastructure systems*

The agency will review existing infrastructure capabilities, policy and regulatory frameworks, hazards analysis and existing resilience measures, undertake deeper sector analysis of main investment and non-investment bottlenecks, and review existing hazard and risk assessments including climate risk assessments, overall infrastructure sector growth strategy, policy frameworks and investment programs. Findings from this phase of work should inform a list of Key Informant Interviews (KII) and Focus Group Discussions (FDG) membership composition.

The Interim Research Report will collate finding from this phase of work and, importantly, identify main challenges and operating conditions related to resilience to stressors and business continuity planning including cost recovery, sustainability, efficiency, competition and targets for change and reform actions. This report will include recommendations for stakeholder engagement activities to be undertaken in the next phase and focus topics for subsequent primary research. This deliverable will require approval by the TAC.

Output: Interim Research Report which provides an overview of the above and identifies areas of detailed investigation for primary research.

3. Primary research

Primary research will be a chance to validate and elaborate on findings from Phase 2 and identify gaps in existing data requiring further research. It will comprise of the following activities:

- *Key Informant Interviews (KII)*
- *Focus Group Discussions (FGD) with key infrastructure resilience stakeholders*
- *Surveys with key infrastructure resilience stakeholders to validate and elaborate desktop research*
- *Site assessments to aid baseline assessment of resilience of existing infrastructure*
- *At least one city level workshop per city to engage with relevant stakeholders. The workshop to be organized in consultation with CDRI.*

There will need to be strong engagement with a wide range of the city’s infrastructure resilience stakeholders and identification of the most appropriate persons to interview, with a consistent approach to engagement and a consistent seniority and role/type of respondent across stakeholders. It will be necessary to speak to a range of experts including resilience officers, service providers (electricity, WASH), investors (government / private), resilience professionals, engineers etc. Site assessments shall be targeted on the basis of the findings from other activities of this phase of work and their location, scope and contribution to the study should be agreed in conjunction with CDRI and key project stakeholders.

The agency will be responsible for all organization, facilitation, and collection activities and will need to identify appropriate forums and methods for the consultation process including virtual consultations, in-person consultations and field visits. Interviews will be supported by robust qualitative and quantitative data collection practices to be proposed by the agency.

It is expected that interviews and focus group discussions will happen in-person. A team of Agencies (including senior personnel) are expected to conduct field-visits to all the cities. The expected time for such field visits is shared in the table below:

Size of City	Number of days
Large	Minimum 6 days
Medium	Minimum 5 days
Small	Minimum 4 days

*This is the suggested field visit days within which Interviews, FDGs are expected to be completed.

Output: Final Research Report which summarizes the findings of the KII’s, FGD’s, survey results, site assessment findings and city workshops

4. City Assessment and Reporting

This phase will draw together data collected during phases 2 and 3, through the selected assessment framework, in order to draw conclusions around the resilience level of the city’s urban infrastructure systems. The assessment will cover the following:

- *Baseline assessment of current infrastructure service capacity, reliability, accessibility and affordability*
- *Current capacity of infrastructure systems to provide critical functionality for a range of shocks and stresses identified in the previous phases*
- *Mapping critical infrastructure system interdependencies, including elements of the wider socio-*

technical system and key infrastructure resilience stakeholders

- *Current consideration of resilience in institutional processes, governance, infrastructure plans (including investment plans)*
- *Identification of gaps in the resilience of the urban infrastructure systems across operational, organizational and institutional levels as well as gaps in knowledge and practice*
- *Priority areas for improvement, level of effort required and key stakeholders responsible*
- *City typologies to which lessons learnt could potentially be applied.*

The agency will be expected to incorporate their inputs into clear and well-structured reports for each of the 20 cities, which clearly answer agreed research questions. These deliverables will document the results of the qualitative and quantitative (where relevant) assessments and the format will be agreed with CDRI and the TAC in advance of producing all reports. The studies will gear towards deriving a set of tangible and actionable recommendations, prioritized across physical / operational, financial, organizational and institutional/capacity building aspects, to improve and enhance infrastructure disaster risk and resilience in each city for the short and long term.

Output: Final Report for each of the 20 cities outlining priority physical/operational recommendations, organizational measures and institutional recommendations. International stakeholder workshop to be organized to present the findings of the final reports.

5. Synthesis Analysis and Reporting

The findings of this study will be incorporated into a wider urban infrastructure resilience report transferring learnings to other cities globally with similar characteristics (e.g. capabilities / needs / hazard profiles).

- *Identify observations and key findings from all the previous phases that can be transferrable to other cities globally with similar capabilities / needs / hazard profiles (overarching and typology specific).*
- *Provide a prioritized set of tangible and actionable recommendations (overall and per typology) to improve and enhance the resilience of urban infrastructure systems*
- *Present to the Technical Advisory Committee and seek feedback.*
- *Final documentation and delivery of report.*

The tangible and actionable recommendations for the 20 cities derived in the previous stage will be synthesized and prioritized to improve and enhance infrastructure disaster risk and resilience for the short and long term for cities of different typologies. These recommendations will encompass physical/ operational, financial, organizational and institutional/capacity building aspects. The agency will be expected to present findings in a workshop with the TAC and incorporate their inputs into a clear and well-structured report. This report will also detail any methodological modifications which were necessary in each typology during the assessment process (data rich/data poor, maturity of resilience approach in the city etc) and provide assessment guidelines for future assessments in other cities of similar typology.

Apart from the Final Synthesis Report, a Policy Brief will be prepared wherein the recommendations and findings of the study will be included. The main purpose of the Policy Brief will be to succinctly evaluate policy options and provide evidence and actionable recommendations for the decision makers/local governments.

Output: Final Synthesis Report and Policy Brief. International Workshop to launch the Final Synthesis Report and Policy Brief

4. Expected Deliverables

The expected set of deliverables include:

- Inception Report: This report will be developed within the first 21 days after award of contract. This report will identify any relevant literature related to urban infrastructure resilience, a list of potential stakeholders, confirm research framework and methodology, work plan and interim discussion on possible report format and table of contents.
- Research Reports: This comprises of an interim report and a final report that compiles the findings from the desktop research in Phase 2 and 3 respectively across research cities and will identify areas of detailed investigation/validation for primary research.
- Final City Reports: Present the findings and recommendations of the studies in the form of detailed reports for each of the cities selected. The agency is also expected to share all data in excel or other appropriate format (that CDRI can access and use).
- Final Synthesis Report, Policy Brief and Workshop: Present the findings and recommendations of the study as a whole. This could be in the form of a concise presentation supported by a more detailed report). The workshop will disseminate findings of study to the Technical Advisory Committee and other key stakeholders to seek feedback on the study and identified recommendations and areas of improvement. A concise set of up to 40 slides that presents the output of the study in a succinct, visually impactful way can be used and a soft copy to be sent to CDRI.

5. Essential & Desirable Experience/Qualification of the Agency

Expected Key Experts and requisite expertise, qualifications, and minimum experience is indicated in the table below.

Core team Composition	Role	Expertise and Qualifications	Minimum relevant work experience
Team Leader (TL) / Project Manager (PM)	Provides overall leadership and technical direction for the study. Leads research efforts including identifying existing studies, relevant stakeholders, sets field visit schedule and arranges meetings. Leads interaction with CDRI, including in-and/or out-brief. Develops outline for report and serves as principal investigator.	Expertise across these 3 core team roles should cover the following specialisms, with appropriate experience and academic qualifications. (these are interchangeable so long as all 3 areas of specialism are covered across the core team): 1. Specialism in infrastructure and infrastructure resilience	20 years
Deputy TL	Assists the TL in lead duties, works to identify and set meetings with relevant stakeholders. Undertakes primary and secondary research with team leader, including assisting with presentations to CDRI and/or other stakeholders. Assists with developing outline and serves as co-author for report.	2. Specialism in urban planning, urban economics/infrastructure finance, and urban resilience 3. Specialism in natural hazards and disaster risk reduction	15 years
Researcher	Undertakes primary and secondary research with team leader, including assisting with presentations to CDRI and/or other stakeholders. Assists with developing outline and serves as co-author for report.		7 years

Infrastructure Resilience Lead Specialist	Technical expert who leads the resilience assessment, including site assessment. Leads primary and secondary research and develops the report.	Has proven track record of working in the infrastructure sector implementing resilience. Expertise across these 4 infrastructure resilience team roles should cover the following specialisms, with appropriate experience and academic qualifications. (these are interchangeable so long as all 4 areas of specialism are covered across the infrastructure resilience team): 1. Specialism in transport infrastructure resilience 2. Specialism in energy/power infrastructure resilience 3. Specialism in telecom infrastructure resilience 4. Specialism in social infrastructure resilience	15 years
Infrastructure Resilience Specialist	Technical expert who leads the resilience assessment, including site assessment. Leads primary and secondary research and develops the report.	Expertise in civil engineering/infrastructure planning or related fields and relevant international experience.	7 years
Infrastructure Resilience Specialist	Technical expert who leads the resilience assessment, including site assessment. Leads primary and secondary research and develops the report.		7 years
Infrastructure Resilience Specialist	Technical expert who leads the resilience assessment, including site assessment. Leads primary and secondary research and develops the report.		7 years

The agency is invited to submit a resource plan to demonstrate that an adequate level of resources has been allocated to deliver this work at the required locations and within the required timescale. CDRI encourages proposals of a team with the experience and skill mix necessary to meet the objectives and scope of services but the core team should cover the below competencies. CDRI reserves the right to seek more details regarding the qualifications and experience of the key experts.

- Core team with minimum qualification as Master’s degrees in Urban Planning, Civil Engineering, Infrastructure Finance, Disaster Risk Management, Resilience, Economics.
- Team leader who can demonstrate at least 20 years of relevant experience in disaster risk management / risk and hazards / infrastructure planning / infrastructure service delivery / design and standards / finance / economics or related subject.

- Able to call upon the experience of wider infrastructure specialists across key sectors (e.g. energy, transport, water)
- Extensive project experience internationally
- Experience of quantitative and qualitative research methods, research and report writing.
- Experience of conducting evaluations of integrated programmes with a focus on resilient urban infrastructure, and multi hazard conditions will be given preference.
- Strong knowledge on hazard analysis, hazard modelling and hazard impact assessment for cities, vulnerability assessment of critical infrastructure.
- Experience in various analytical studies related to risk modelling and guidance on resilience building of infrastructure assets.
- Hydrological, Geological & Geotechnical, Earthquake Engineering skills
- Climate change and climate hazards expertise
- Familiarity with international and national application of design standards in infrastructure design
- Proficiency in developing assessment frameworks and competence to develop analytical tools
- Excellent written and spoken communications skills in English
- Competence to undertake financial analysis for the effectiveness of the adaptation/mitigation and resilience measures
- Previous proven experience of conducting evaluations particularly for resilience focused programs
- Core Team members to have demonstrated inter-personal and analytical skills with an extraordinary level of diplomacy and tact while dealing with numerous stakeholders
- Strong organizational, research, and oral presentation skills
- Publications and contributions to national and international discussion platforms / global reports on critical infrastructure resilience

6. Delivery Schedule and Outputs

- The duration of the consultancy is expected to be 15 months. Some flexibility can be built in if required considering that there are currently restrictions in place due to COVID and there may continue to be residual restrictions in the coming months.

S. No.	Milestones* (deliverables as under point 4)	Timeline T ₀ + days (number of days available for activity)	Payment Schedule (% amount of total to be disbursed after completion and verification of milestone)
1	Inception Report	T ₀ + 21 days (21 days)	5%
2	Desktop Research [One report per city]	T ₀ + 96 days (75 days)	5%

3	Primary Research [One report per city]	$T_0 + 186$ days (90 days)	10%
4	City Assessment and Reporting [One report per city] <ul style="list-style-type: none">International Workshop 1	$T_0 + 366$ days (180 days)	45%
6	Synthesis Analysis and Reporting [Final Report and Policy Brief] <ul style="list-style-type: none">International Workshop for launch	$T_0 + 456$ days (90 days)	35%

*Milestones should be defined by Agency and explained separately also. The final negotiated timeline of milestones and deliverables shall be inserted in the contract before signing.

7. Additional Project Requirements

Validation of data and recommendations

- The agency should follow well defined quality control and assurance procedures.
- Involvement of expert reviewers during report finalization.
- Workshops for consultations and dissemination of findings and recommendations.
- Approval of outputs by the Technical Advisory Committee

Project Management

The Client for this project is the Coalition for Disaster Resilient Infrastructure (CDRI) Society. The agency shall report and communicate the status and products of the project to the CDRI's representative via a written Project Management Report (PMR) on the first business day of each month after the project's initiation. There will be quarterly Project Meetings following project initiation. An inception report should be provided at the first Project Meeting. The quarterly report and the PMRs should be communicated in English language. The agency will propose a standard form for the PMR in their proposal.

The agency will closely interact and report to the Client's team and Technical Advisory Committee that will accept the deliverables. The agency is encouraged to appoint a focal or contact person who can be competently consulted on this undertaking on a regular basis, preferably in the same time zone as the Client.

Language and documentation

Language: The working languages for this project shall be English. All final deliverables shall be in English.

All Project Reporting shall be delivered in English in both electronic format (Microsoft Word and Adobe pdf) and as bound printed volumes. The Project Report shall include final copies of all technical reports.

Numerical results (shape files, spreadsheets, etc.) only need to be provided in an electronic format. The tool should be available on an appropriate software open-source platform.

Data and documentation standards

Metadata: Detailed documentation needs to be provided for each data set. The metadata must include description, source, contact, date, accuracy, restrictions. A description of the attribute name and attribute values needs to be provided for vector and tabular data sets. The metadata will be delivered in an XML format following ISO 19139.

All spatial data should meet OGC <http://www.opengeospatial.org/standards>. All data should be geo referenced and projected in WGS 84 UTM zones. Metadata documentation shall be produced in an approved format compatible with the Federal Geographic Data Committee. FGDC-STD-001-1998. Content standard for digital geospatial metadata (revised June 1998). Federal Geographic Data Committee. Washington, D.C.

Licensing

All data procured and developed for this project will be done on behalf of the CDRI. The intent is that the data shall be licensed to allow for free use and distribution in a manner that follows the Open Database License (ODbL). The license includes the right of the CDRI (and sub-licensees) to freely use and distribute data, through the following means:

- Hazard, risk and vulnerability assessments.
- Research into the natural and built environment.
- Extraction of derivatives (including, but not limited to, slope and roughness) and geographical features (including, but not limited to, infrastructure footprints, fault traces and other geomorphic features). Extracted derivatives and features will be the intellectual property of CDRI.
- Presentation in reports and presentations.
- Presentation, distribution, and analysis through the internet.

Software and Tools requirement

All software and tools developed under this ToR shall be open-source and tested for all major web browsers. All software produced under this ToR will be in English.

Public Information

All work products created or produced by the agency under the Terms of Reference (TOR) shall be considered Public Information, and in a legal sense treated the same as information generated by public entities. The agency will not own work products created under the TOR, nor possess particular or exclusive usage rights to those work products, and may not use the work products in any manner apart from the TOR except as provided by public policies governing the use of open data.

Confidentiality

The agency must ensure the protection and confidentiality of information and data created according to the TOR that is considered private and/or legally protected.

Security

The agency must ensure the security of data and information in accordance with existing regulation in this area.

Fairness, standards, and professional ethics

The methods and procedures used in producing information and data consistent with the TOR should follow prevailing scientific standards, techniques and professional ethics regarding objectivity and independence.

Standards of quality

Information and data created according to the TOR should follow internationally accepted standards and practices.

Documentation

The agency must provide documentation of the methodologies used to generate data created or produced under the TOR, including metadata for all data files.

Delivery

All data and work products created under the TOR shall be transmitted in their entirety and in a timely manner to the Client via commonly used electronic formats appropriate to the information or data. In addition to the formats defined above, other data examples include tabular data should be transmitted in Microsoft Excel, DBF or CSV format; textual information should be transmitted in Microsoft Word or TEXT format.

Facilities to be provided by the Clients

Please note that CDRI may facilitate the process of data collection and meetings with the requisite stakeholders. But the primary responsibility for these will lie with the Agency. The CDRI will not be providing any facilities to the Agency for this study.

Implementation arrangements

After the inception stage the agency shall prepare a detailed schedule and task-flow diagram, which depicts the interrelationship of various tasks in the assignment and depicts how they lead to the completion of the different tasks. The Team Leader/Project Manager of the Agency will be the principal contact and will be expected to be available during project implementation. The Agency is encouraged to appoint an additional contact person (Deputy Team Leader) who can be competently consulted on this undertaking.

The agency shall be responsible for all aspects of performance of services as set forth in the Phases of this TOR.

Ownership and Confidentiality of Data and Work Products

The ownership of the raw data collected by the agency during the course of the study and the deliverables including documents, maps, images, processed data, etc. will rest with CDRIS. The agency will keep the data and work products/outcome documents confidential. Dissemination of the outputs/outcomes/reports/framework/tools will require express permission of the CDRIS.

Any other related information specific to the study which is necessary to be furnished to all the bidders.

a. As this study is being undertaken within the time of travel restrictions due to COVID-19, Agencies may account for all such restrictions along with legal and social restrictions. in place while presenting their proposals.

b. The Agencies are encouraged to be innovative in suggesting alternate modes of conducting the workshops and for disseminating the findings of the report at the end of the study in place of the Workshops, as these may not be possible in the given context.

The cost of logistics for organizing Workshops/stakeholder consultations to complete the scope of work will vary based on the mode of conducting the workshops (online or in-person) and this will depend on the lockdown and social distancing restrictions in place at the time. Thus, the logistics costs of the workshops will be reimbursed as on actuals basis.

[Note: Logistics does not include staff time, or resource persons, or coordination. For web-based meetings, this does not include the cost of purchase of hardware or software, only services if any.]

SECTION 5: Standard Form of Contract

CONTRACT FOR AGENCIES' SERVICES

(Name of the contract/work can be written here)

between

Coalition for Disaster Resilient Infrastructure (CDRI)

and

Dated:

Contents

- I. Form of Contract
- II. General Conditions of Contract
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 - 12. INDEMNIFICATION
- III. Special Conditions of Contract
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I. Form of Contract

This CONTRACT (hereinafter called the “Contract”) is made on the _____ day of the month of _____, 20____, between the Coalition for Disaster Resilient Infrastructure, with its office at 4th & 5th Floor, Bhartiya Kala Kendra, 1 Copernicus Marg, New Delhi - 110001 (hereinafter called the “CDRI”), and, a joint venture/consortium/association consisting of the following entities, namely, lead Agency _____ and its partner _____ (hereinafter collectively called the “Agency”).

WHEREAS

- (a) the Agency, having represented to the “CDRI” that he/she/it has the required qualifications professional skills, personnel, financial and technical resources, statutory authorization, has offered to provide services in response to the Request for Proposal numbered _____, titled _____ dated _____ issued by the CDRI;
- (b) the “CDRI”, on basis of Agency’s representations, has accepted the offer of the Agency to provide the services on the terms and conditions set forth in this Contract.

NOW, THEREFORE, IT IS HEREBY AGREED between the parties as follows:

1. The following documents attached hereto shall be deemed to form an integral part of this Contract:

- (a) The General Conditions of Contract.
- (b) The Special Conditions of Contract.
- (c) The following Appendices:

- Appendix A: Description of services
- Appendix B: Reporting requirements
- Appendix C: Staffing schedule
- Appendix D: Cost estimates and Payment or billing schedule
- Appendix E: Duties of CDRI

2. The mutual rights and obligations of the “CDRI” and the Agency shall be as set forth in the Contract, in particular:

- (a) the Agencies shall carry out and complete the Services in accordance with the Description of Services, which is hereby incorporated in Appendix A, and is made a part of the Contract; and
- (b) the “CDRI” shall make payments to the Agency in accordance with the provisions of the Contract.

3. Period of Performance for completion of work described in Description of Services begins _____ and continues through _____ unless the period of performance is extended by CDRI, as a written modification to this Contract. The Agency acknowledges that extension for period of performance is at the sole discretion of CDRI and the Agency shall not claim it as a matter of right under any circumstances whatsoever.

4. The Agency represents that it is a duly constituted and compliant entity under Applicable Laws and the signatories to the Contract are authorised and duly constituted under Applicable Laws to execute this Contract.

Both parties acknowledge that they have read this Contract, understand it, and agree to be bound by its terms. The parties further agree that this Contract together with all the incorporated attachments, is the entire agreement between the parties and supersedes all prior agreements, written or oral, relating to the subject matter of this Contract.

IN WITNESS WHEREOF, the Parties hereto have caused this Contract to be executed by their duly authorized representatives as of the day and year first above written.

1. For and on behalf of the Coalition for Disaster Resilient Infrastructure:

On Behalf of CDRI,

CDRI, 4th & 5th Floor, Bhartiya Kala Kendra, 1 Copernicus Marg, New Delhi – 110001

In presence of (Witnesses)

(i)

(ii)

2. For and on behalf of the Lead Agency

[name of Agency]

In presence of

(Witnesses)

(i)

(ii)

[Authorized Representative]

[For a joint venture, either all members shall sign or only the lead member, in which case the power of attorney to sign on behalf of all members shall be attached.]

II. General Conditions of Contract

1 GENERAL PROVISIONS

1.1 **Definitions** Unless the context otherwise requires, the following terms whenever used in this Contract have the following meanings:

- (a) “Applicable Law(s)” means the laws and any other instruments having the force of law in India for the time being.
- (b) “Confidential Information”- means all information which has been designated as confidential by the Parties in writing or that ought to be considered as confidential (however it is conveyed or on whatever media it is stored) including but not limited to information which relates to the business, policy, strategy, affairs, properties, assets, trading practices, services, developments, trade secrets, Intellectual Property Rights, know-how, personnel, customers and suppliers of either party and commercially sensitive information which may be regarded as the confidential information of the disclosing party.
- (c) “Agency” means _____. And its partner _____.
- (d) “Contract” means the Contract signed by the Parties and all the attached documents listed in its Clause 1 that is this General Conditions (GCC), the Special Conditions (SCC), Form of Contract, the Appendices, and any subsequent mutually signed document added to this contract .
- (e) “Day” means calendar day.
- (f) “Effective Date” means the date on which this Contract comes into force and effect pursuant to Clause GCC 2.1.
- (g) “Foreign Currency” means any currency other than the currency of the “CDRI’s” country.
- (h) “GCC” means these General Conditions of Contract.
- (i) “Government” means the Government of India
- (j) “Intellectual Property Rights”: means any copyright, rights in designs, database rights, domain names, trademarks, service marks, patents, logo, brand names, or any applications for any of the foregoing, know-how or similar rights or obligations (whether registerable or not) including Moral Rights as defined under applicable laws of India;
- (k) “Local Currency” means Indian Rupee.
- (l) “Member” means any of the entities that make up the joint venture/consortium/association; and “Members” means all these entities.
- (m) “Party” means the “CDRI” or the Agency, as the case may be, and “Parties” means both of them.
- (n) “Personnel” means professionals and support staff provided by the Agencies and assigned to perform the Services or any part thereof; “Foreign Personnel” means such professionals and support staff who at the time of being so provided had their domicile outside the Government’s country; “Local Personnel” means such professionals and support staff who at the time of being so provided had their domicile inside the Government’s country; and “Key Personnel” means the Personnel referred to in Clause GCC 5.2(a).
- (o) “Reimbursable expenses” means all assignment-related costs [such as travel, translation, report printing, secretarial expenses, subject to specified maximum limits in the Contract].
- (p) “SCC” means the Special Conditions of Contract by which the GCC may be amended or supplemented.
- (q) “Services” means the work to be performed by the Agency pursuant to this Contract, as described in Appendix A hereto.

- (r) “Sub-Agencies” means an entity to whom/which the Agency subcontracts any part of the Services while remaining solely liable for the execution of the Contract.
- (s) “Third Party” means any person or entity other than the “CDRI”, or the Agency.
- (t) “In writing” means communicated in written form with proof of receipt.

1.2 Relationship Between the Parties

Nothing contained herein shall be construed as establishing a relationship of master and servant or of principal and agent as between the “CDRI” and the Agency. The Agency, subject to this Contract, has complete charge of Personnel, performing the Services and shall be fully responsible and liable for the Services performed by them or on their behalf hereunder.

1.3 **Law Governing Contract:** This Contract, its meaning and interpretation, and the relation between the Parties shall be governed by the applicable laws of the Republic of India.

1.4 **Headings:** The headings shall not limit, alter, or affect the meaning of this Contract.

1.5 **Notices:**

1.5.1 Any notice, request or consent required or permitted to be given or made pursuant to this Contract shall be in writing. Any such notice, request or consent shall be deemed to have been given or made when delivered in person to an authorized representative of the Party to whom the communication is addressed, or when sent by registered post or email to such Party at the address specified in the SCC.

1.5.2 A Party may change its address for notice hereunder by giving the other Party notice in writing of such change to the address specified in the SCC.

1.6 **Location:** The Services shall be performed at such locations as are specified in **Appendix A hereto** and, where the location of a particular task is not so specified, at such locations, as the “CDRI” may approve.

1.7 **Authority of Lead Agency:** In case the Agency consists of a joint venture/consortium/ association of more than one entity, the Members hereby authorize the entity specified (Lead Agency) in the SCC to act on their behalf in exercising all the Agency’s rights and obligations towards the “CDRI” under this Contract, including without limitation the receiving of instructions and payments from the “CDRI”.

1.8 **Authorized Representatives:** Any action required or permitted to be taken, and any document required or permitted to be executed under this Contract by the “CDRI” or the Agency may be taken or executed by the officials specified in the SCC.

1.9 **Taxes and Duties:** The Agency shall be liable to pay such direct and indirect taxes, duties, fees, and other impositions levied under the applicable laws of India.

1.10 Fraud and Corruption

1.10.1 **Definitions:** It is the CDRI’s policy to require that CDRI as well as Agency observe the highest standard of ethics during the execution of the Contract. In pursuance of this policy, the CDRI defines, for the purpose of this provision, the terms set forth below as follows:

- (i) “corrupt practice” means the offering, receiving, or soliciting, directly or indirectly, of anything of value to influence the action of a public official in the selection process or in contract execution, and includes any allegation of being involved in corrupt practice unrelated to this Contract by any Statutory or Government agency duly empowered to do so under Applicable Law;
- (ii) “fraudulent practice” means a misrepresentation or omission of facts in order to influence a selection process or the execution of a contract or having been blacklisted by any Government agency under Applicable Law;
- (iii) “collusive practices” means a scheme or arrangement between two or more Agencies, with or without the knowledge of the CDRI, designed to establish prices at artificial, non-competitive levels;
- (iv) “coercive practices” means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in a procurement process, or affect the execution of a contract;

1.10.2 Measures to be taken by the CDRI

- (a) The CDRI reserves the right to terminate the contract, without notice, if it determines at any time that Agency, it affiliates and/or its representatives were directly or indirectly engaged in corrupt, fraudulent, collusive or coercive practices during the selection process or the execution of that contract, without the Agency having taken timely and appropriate action satisfactory to the CDRI to remedy the situation after notification by the CDRI;
- (b) The CDRI may also sanction against the Agency, including declaring the Agency ineligible, either indefinitely or for a stated period of time, to participate in CDRI’s procurement process if it at any time determines that the Agency has, directly or through an agent, engaged in corrupt, fraudulent, collusive or coercive practices in competing for, or in executing, a CDRI-financed contract;
- (c) The CDRI shall also be entitled to take recourse to this clause if it comes to the knowledge of CDRI that the Agency has been involved in or alleged to be involved in any corrupt, fraudulent, collusive or coercive practises in relation to any third party transaction not related to this Contract or has been blacklisted by any Government agency or it is so alleged by any Government agency.

2 COMMENCEMENT, PROGRESS MONITORING, COMPLETION, MODIFICATION AND TERMINATION OF CONTRACT

- 2.1 Effectiveness of Contract:** This Contract shall come into force and effect on the date (the “Effective Date”) of the “CDRI”s notice to the Agency instructing the Agency to begin carrying out the Services. This notice shall confirm that the conditions precedent and effectiveness conditions, if any, listed in the SCC have been met.
- 2.2 Termination of Contract for Failure to Become Effective:** If this Contract has not become effective within such time period after the date of the Contract signed by the Parties as specified in the SCC, either Party may, by not less than twenty one (21) days written notice to the other Party, declare this Contract to be null and void, and in the event of such a declaration by either Party, neither Party shall have any claim against the other Party with respect hereto.
- 2.3 Commencement of Services:** The Agency shall begin carrying out the Services not later than the number of days after the Effective Date specified in the SCC.
- 2.4 Expiration of Contract:** Unless terminated earlier pursuant to Clause GCC 2.9 hereof, this Contract shall expire at the end of such time-period after the Effective Date as specified in the SCC.

2.5 Entire Agreement: This Contract contains all covenants, stipulations and provisions agreed by the Parties. No agent or representative of either Party has authority to make, and the Parties shall not be bound by or be liable for, any other statement, representation, promise or agreement not set forth herein.

2.6 Modifications or Variations: (a) any modification or variation of the terms and conditions of this Contract, including any modification or variation of the scope of the Services, may only be made by written agreement between the Parties. Pursuant to Clause GCC 8.2 here of, however, each Party shall give due consideration to any proposals for modification or variation made by the other Party. (b) In cases of substantial modifications or variations, the prior written consent of the Parties is required.

2.7 Force Majeure

2.7.1 Definition

- (a) For the purposes of this Contract, “Force Majeure” means an event which is beyond the reasonable control of a Party, is not foreseeable, is unavoidable and not brought about by or at the instance of the Party claiming to be affected by such events and which has caused the non-performance or delay in performance, and which makes a Party’s performance of its obligations hereunder impossible or so impractical as reasonably to be considered impossible in the circumstances, and includes, but is not limited to, war, riots, civil disorder, global economic recession, embargo, emergency, earthquake, fire, explosion, storm, pandemic, epidemic, flood or other extreme adverse weather conditions, strikes, lockouts or other industrial action (except where such strikes, lockouts or other industrial action are within the power of the Party invoking Force Majeure to prevent), confiscation or any other action by Government agencies.
- (b) Force Majeure shall not include: (i) any event which is caused by the negligence or intentional action of a Party or by or of such Party’s agents or employees, nor (ii) any event which a diligent Party could reasonably have been expected both to take into account at the time of the conclusion of this Contract, and avoid or overcome in the carrying out of its obligations hereunder.
- (c) Subject to clause 2.7.2, Force Majeure shall not include insufficiency of funds or inability to make any payment required hereunder.

2.7.2 No Breach of Contract: The failure of a Party to fulfil any of its obligations hereunder shall not be considered to be a breach of, or default under, this Contract insofar as such inability arises from an event of Force Majeure, provided that the Party affected by such an event has taken all reasonable precautions, due care and reasonable alternative measures, all with the objective of carrying out the terms and conditions of this Contract.

2.7.3 Measures to be taken:

- (a) A Party affected by an event of Force Majeure shall continue to perform its obligations under the Contract as far as is reasonably practical and shall take all reasonable measures to minimize the consequences of any event of Force Majeure.
- (b) A Party affected by an event of Force Majeure shall notify the other Party of such event as soon as possible, and in any case not later than fourteen (14) days following the occurrence of such event, providing evidence of the nature and cause of such event, and shall similarly give written notice of the restoration of normal conditions as soon as possible.
- (c) Any period within which a Party shall, pursuant to this Contract, complete any action or task, shall be extended for a period equal to the time during which such Party was unable to perform such action as a result of Force Majeure.
- (d) During the period of their inability to perform the Services as a result of an event of Force Majeure, the Agency, upon instructions by the “CDRI”, shall either:
 - i. demobilize; or
 - ii. Continue with the Services to the extent possible, in which case the Agency shall continue to be paid proportionately and on pro-rata basis, under the terms of this Contract.
- (e) In the case of disagreement between the Parties as to the existence or extent of Force Majeure, the matter shall be settled according to Clause GCC 9.

2.8 Suspension: The “CDRI” may, by written notice of suspension to the Agency, suspend all payments to the Agency hereunder if the Agency fails to perform any of its obligations under this Contract, including satisfactorily carrying out of the Services, provided that such notice of suspension (i) shall specify the nature of the failure, and (ii) shall allow the Agency to remedy such failure, if capable of being remedied, within a period not exceeding thirty (30) days after receipt by the Agency of such notice of suspension.

2.9 Termination

2.9.1 By the “CDRI”: The “CDRI” may terminate this Contract in case of the occurrence of any of the events specified in paragraphs (a) through (i) of this Clause GCC 2.9.1.

- (a) If the Agency fails to remedy a failure in the performance of its obligations hereunder, as specified in a notice of suspension pursuant to Clause GCC 2.8 hereinabove, within thirty (30) days of receipt of such notice of suspension or within such further period as the “CDRI” may have subsequently approved in writing.
- (b) If the Agency becomes (or, if the Agency consists of more than one entity, if any of its Members becomes and which has substantial bearing on providing Services under this contract) insolvent or go into liquidation or receivership whether compulsory or voluntary.
- (c) If the Agency has, directly or indirectly engaged, or even attempted to engage in corrupt or fraudulent practices in competing for or in executing this Contract.
- (d) If the Agency submits to the “CDRI” a false statement or is found guilty of misrepresentation either before, during or after signing of the present contract”.
- (e) If the Agency places itself in position of conflict of interest or fails to disclose promptly any conflict of interest to the CDRI.
- (f) If the Agency fails to provide satisfactory quality services as envisaged under this Contract. The Consultancy Monitoring Committee (CMC) formulated to monitor the progress of the assignment

may make judgement regarding the poor quality of services, the reasons for which shall be recorded in writing. The CMC may decide to give one chance to the Agency to improve the quality of the services.

- (g) If, as the result of Force Majeure, the Agency is unable to perform a material portion of the Services for a period of not less than sixty (60) days.
- (h) If there is a Change of Control in the constitution of the Agency;
- (i) If the “CDRI”, in its sole discretion and for any reason whatsoever, decides to terminate this Contract.

In such an occurrence the “CDRI” shall give a not less than thirty (30) days’ written notice of termination to the Agency

2.9.2 By the Agency: The Agency may terminate this Contract, by not less than thirty (30) days’ written notice to the “CDRI”, in case of the occurrence of any of the events specified in paragraphs (a) through (b) of this Clause 2.9.2.

- (a) If the “CDRI” fails to pay any money due to the Agency pursuant to this Contract and not subject to dispute pursuant to Clause GCC 9 hereof within forty-five (45) days after receiving written notice from the Agency that such payment is overdue.
- (b) If, as the result of Force Majeure, the Agency is unable to perform a material portion of the Services for a period of not less than sixty (60) days.

2.9.3 Cessation of Rights and Obligations: Upon termination of this Contract pursuant to Clauses GCC 2.2 or GCC 2.9 hereof, or upon expiration of this Contract pursuant to Clause GCC 2.4 hereof, all rights and obligations of the Parties hereunder shall cease, except (i) such rights and obligations as may have accrued on the date of termination or expiration, (ii) the obligation of confidentiality and intellectual property rights set forth in the present agreement, (iii) the Agency’s obligation to permit inspection, copying and auditing of their accounts and records set forth in Clause GCC 4.5 hereof, and (iv) any right which a Party may have under the Law.

2.9.4 Cessation of Services: Upon termination of this Contract by notice of either Party to the other pursuant to Clauses GCC 2.9.1 or GCC 2.9.2 hereof, the Agency shall, immediately upon dispatch or receipt of such notice, take all necessary steps to bring the Services to a close in a prompt and orderly manner and shall make every reasonable effort to keep expenditures for this purpose to a minimum. With respect to documents prepared by the Agency and equipment and materials furnished by the “CDRI”, the Agency shall proceed as provided, respectively, by Clauses GCC 4.9 or GCC 4.10 hereof.

2.9.5 Payment upon Termination: Upon termination of this Contract pursuant to Clauses GCC 2.9.1 or GCC 2.9.2 hereof, the “CDRI” shall make the following payments to the Agency:

- (a) If the Contract is terminated pursuant to Clause 2.9.1 (g), (h) or 2.9.2, remuneration pursuant to Clause GCC 7.3(h) (i) hereof for Services satisfactorily performed prior to the effective date of termination, and reimbursable expenditures pursuant to Clause GCC 7.3(h)(ii) hereof for expenditures actually and reasonably incurred prior to the effective date of termination;
- (b) If the agreement is terminated pursuant of Clause 2.9.1 (a) to (f), the Agency shall not be entitled to receive any agreed payments upon termination of the contract. However, the “CDRI” may consider making payment for the part satisfactorily performed on the basis of Quantum Meruit as assessed by it, if such part is of economic utility to the CDRI. Applicable Under such circumstances, upon termination, the client may also impose liquidated damages as per the provisions of Clause GCC 10 of this agreement. The Agency will be required to pay any such liquidated damages to client within 30 days of termination date.

2.9.6 Disputes about Events of Termination: If either Party disputes whether an event specified in paragraphs (a) through (h) of Clause GCC 2.9.1 or in Clause GCC 2.9.2 hereof has occurred, such Party may, within thirty (30) days after receipt of notice of termination from the other Party, refer the matter to Clause GCC 9 hereof, and this Contract shall not be terminated on account of such event except in accordance with the terms of any resulting arbitral award.

3. Intellectual Property:

3.1 As a material condition to which Agency agrees in exchange for the opportunity to provide the Services, Agency expressly acknowledges and agrees that all reports, documents, improvements, discoveries, inventions, processes, designs, plans, and trade secrets, whether of a technical nature or not, which could either be primary or secondary data, made or developed by Agency alone or in conjunction with any other person or entity while providing the Services herein or developed by the Agency during the course of or arising out of his previous employment, which relate to or affect the business of CDRI (“Intellectual Property”), shall be the sole and exclusive property of CDRI. All intellectual property rights in the same shall be the exclusive property of CDRI, for perpetuity and for all territories of the world.

3.2 The Agency agrees that during the subsistence of the present contract, it could come across or be handed over material, data etc., where the intellectual property rights in the same would be the sole property of CDRI. Agency agrees that he shall not, directly, or indirectly, use or disclose any of the said material belonging to CDRI to any entity in any manner or medium whatsoever, for any reasons whatsoever.

3.3 The Agency expressly agrees to disclose and reveal to CDRI all Intellectual Property, and all information regarding Intellectual Property, concurrent with the discovery or development of the Intellectual Property. Agency hereby assigns to CDRI all rights, title, and interests in any Intellectual Property.

3.4 The Agency irrevocably appoints the CDRI as his/her/its attorney and, in his name and on his behalf, to execute and do any instrument or thing and generally to use his name for the purpose of giving to the CDRI or its nominee the full benefit of the provisions of this clause 3.

3.5 Surrender of Material upon Termination of Agreement: Upon termination of this Agreement, Agency shall return immediately to the CDRI all Intellectual Property (including all books, records, notes, data and information relating to CDRI or its business and all other CDRI property), and will so certify in writing that it has done so.

3.6 Moral Rights. Agency hereby waives all moral rights relating to the Intellectual property which may be developed by it during the performance of the present contract (including any rights (a) of identification of authorship, (b) of approval, restriction, or limitation on use, and (c) to subsequent modifications

4. OBLIGATIONS OF THE AGENCY

4.1 General

4.1.1 Standard of Performance: The Agency acknowledges and agree that it shall perform the Services and carry out their obligations hereunder with all due diligence, efficiency and economy, in accordance with generally accepted professional standards and practices, observe Industry standards of sound management practices, which are in conformity with International and National Industry standards, employ appropriate latest, secure, applicable technology equipment, machinery, materials and methods.. The Agency agrees that it shall always act, in respect of all and any matters relating to this Contract or to the Services, as faithful adviser to the “CDRI”, and shall at all times support and safeguard the “CDRI’s” interests in any dealings with Third Parties.

4.1.2 Performance Bank Guarantee: Agency will be required to submit performance security within 15 days of signing of contract. The amount of Performance Bank Guarantee will be _____ of the contract value and be valid for a period of _____ months. The Performance Bank Guarantee will be forfeited and encashed by CDRI in the event of breach of contract by Agency. Failure to submit Performance Bank Guarantee may result in cancellation of contract and forfeiture of EMD.

4.2 Conflict of Interests: The Agency agrees that it shall hold the CDRI’s interests paramount, at all given points of time, without any consideration for future work, and strictly avoid conflict of interest with other assignments or their own corporate interests. If during the period of this contract, a conflict of interest arises for any reasons, the Agency shall promptly disclose the same to the CDRI and seek its instructions.

4.2.1 Agency not to benefit from Commissions, Discounts, etc.:

(a) The payment of the Agency pursuant to Clause GCC 7 hereof shall constitute the Agency’s only payment in connection with this Contract and, subject to Clause GCC 3.2.2 hereof, the Agency shall not, directly or indirectly, accept for its own benefit any trade commission, discount or similar payment in connection with activities pursuant to this Contract or in the discharge of its obligations hereunder, and the Agency shall use its best efforts to ensure that any Personnel and agents of either of them, similarly shall not receive any such additional payment.

(b) Furthermore, if the Agency, as part of the Services, has the responsibility of advising the “CDRI” on the procurement of goods, works or services, the Agency shall comply with the CDRI’s applicable procurement guidelines, and shall at all times exercise such responsibility in the best interest of the

“CDRI”. Any discounts or commissions obtained by the Agency in the exercise of such procurement responsibility shall be for the account of the “CDRI”.

4.2.2 Agency and Affiliates Not to Engage in Certain Activities: The Agency agrees that, during the term of this Contract and after its termination, the Agency and/or any entity affiliated or associated with the Agency, shall be disqualified from providing goods, works or services (other than consulting services) resulting from or directly related to the Agency’s Services for the preparation or implementation of the project.

4.2.3 Prohibition of Conflicting Activities: The Agency shall not directly or indirectly engage, nor shall cause their Personnel as well as their Affiliates to engage, either directly or indirectly, in any business or professional activities that would conflict with the activities assigned to Agency under this Contract.

4.3 Confidentiality: During the course of this contract, it is likely that the Agency might come into contact with CDRI ‘confidential information’. Such confidential information may include, without limitation: (i) daily business and financial information of CDRI, (ii) business methods and practices, (iii) technology and technological strategies, (iv) marketing strategies (v) CDRI policies and (vi) other such information CDRI deems as “Confidential Information”. The Agency with its signature below, agrees to keep in strict confidence all ‘non-public’ information so long as it remains non-public, except to the extent disclosure is required by law, requested by any governmental or regulatory agency or body. The Agencies agree not to use or allow the use of ‘confidential information’ disclosed to them for their own benefit, or for the benefit of any party with which the Agency or the Company is affiliated. If this agreement is terminated, the Agency shall promptly return to the other party all documents, contracts, records, or other information received by it that disclose or embody confidential information of the other party.

4.4 Insurance to be Taken out by the Agency: The Agency (i) shall take out and maintain, and shall cause any Associates and Affiliates to take out and maintain insurance, at their own cost but on terms and conditions approved by the “CDRI”, insurance against the risks, and for the coverages specified in the SC, and (ii) at the “CDRI”’s request, shall provide evidence to the “CDRI” showing that such insurance has been taken out and maintained and that the current premiums therefore have been paid.

4.5 Accounting, Inspection and Auditing: The Agency (i) shall keep accurate and systematic accounts, records and working files in respect of the Services hereunder, in accordance with Internationally accepted accounting principles and in such form and detail as will clearly identify all relevant time changes and costs, and the bases thereof, and (ii) shall periodically permit the “CDRI” or its designated representative and/or the CDRI, and up to five years from expiration or termination of this Contract, to inspect the same and make copies thereof as well as to have them audited by auditors appointed by the “CDRI” or the CDRI, if so required by the “CDRI” or the CDRI as the case may be.

Any audit shall be subject to the following:

- i. the audit shall be restricted to the engagement and shall be conducted with prior reasonable notice
- ii. the auditors or the representatives of CDRI for the audit shall not be the Agency’s competitors;

- iii. the audit shall not be conducted more than once in a calendar year and twice in entirety; and
- iv. any findings during the audit, shall be shared with the Agency and be discussed and agreed mutually with CDRI and the Agency for its closure.

4.6 Agency's Actions Requiring "CDRI"'s Prior Approval: The Agency agrees to obtain the "CDRI"'s prior approval in writing before taking any of the following actions:

- (a) Any change or addition to the Personnel listed in Appendix C.

4.7 Reporting Obligations: The Agency shall submit to the "CDRI" the reports and documents specified in Appendix B hereto, in the form, in the numbers and within the time periods set forth in the said Appendix. Final reports shall be delivered in Pen Drive in addition to the hard copies specified in said Appendix.

4.8 Documents Prepared by the Agency to be the Property of the "CDRI": All plans, drawings, specifications, designs, reports, other documents and software prepared by the Agency, for the "CDRI" under this Contract shall become and remain the property of the "CDRI", and shall be the Intellectual Property of the CDRI. The Agency shall, not later than upon termination or expiration of this Contract, deliver all the aforesaid material, software, documents to the "CDRI", together with a detailed inventory thereof, in a manner as desired by CDRI.

4.9 Equipment, Vehicles and Materials Furnished by the "CDRI": Equipment, vehicles and materials made available to the Agency by the "CDRI", or purchased by the Agency wholly or partly with funds provided by the "CDRI", shall be the property of the "CDRI" and shall be marked accordingly. Upon termination or expiration of this Contract, the Agency shall make available to the "CDRI" an inventory of such equipment, vehicles and materials and shall dispose of such equipment and materials in accordance with the "CDRI"'s instructions. While in possession of such equipment, vehicles and materials, the Agency, unless otherwise instructed by the "CDRI" in writing, shall insure them at the expense of the "CDRI" in an amount equal to their full replacement value.

4.10 Equipment and Materials Provided by the Agencies: Equipment or materials brought into the Government's country by the Agency and the Personnel and used either for the Project or personal use shall remain the property of the Agency or the Personnel concerned, as applicable.

5 AGENCIES' PERSONNEL

5.1 General: The Agency shall employ and provide such qualified and experienced Personnel as are required to carry out the Services.

5.2 Description of Personnel:

(a) The title, agreed job description, minimum qualification, and estimated period of engagement in the carrying out of the Services of each of the Agency's Key Personnel are as per the Agency's proposal and are described in Appendix C. If any of the Key Personnel has already been approved by the "CDRI", his/her name is listed as well.

(b) If required to comply with the provisions of Clause GCC 4.1.1 hereof, adjustments with respect to the estimated periods of engagement of Key Personnel set forth in Appendix C may be made by the Agency by written notice to the "CDRI", provided (i) that such adjustments shall not alter the originally estimated period of engagement of any individual by more than 10% or one week, whichever is larger, and (ii) that the aggregate of such adjustments shall not cause payments under this Contract to exceed the ceilings set forth in Clause GCC 7.1(b) of this Contract. Any other such adjustments shall only be made with the "CDRI"'s written approval.

(c) If additional work is required beyond the scope of the Services specified in Appendix A, the estimated periods of engagement of Key Personnel set forth in Appendix C may be increased by agreement in writing between the "CDRI" and the Agency. In case where payments under this Contract exceed the ceilings set forth in Clause GCC 7.1(b) of this Contract, this will be explicitly mentioned in the agreement.

5.3 Approval of Personnel: The Key Personnel listed by title as well as by name in Appendix C are hereby approved by the "CDRI". The Agency is free to use any additional personnel (in addition to the Key Personnel) as required to achieve the aims of the project.

5.4 Removal and/or Replacement of Personnel:

- (a) Except as the "CDRI" may otherwise agree, no changes shall be made in the Personnel. If, for any reason beyond the reasonable control of the Agency, such as retirement, death, medical incapacity, among others, it becomes necessary to replace any of the Personnel, the Agency shall forthwith provide as a replacement a person of equivalent or better qualifications, within a period of no more than 10 days.
- (b) If the "CDRI" (i) finds that any of the Personnel has committed serious misconduct or has been charged with having committed a criminal action, or (ii) has reasonable cause to be dissatisfied with the performance of any of the Personnel, then the Agency shall, at the "CDRI"'s written request specifying the grounds therefore, forthwith provide as a replacement a person with qualifications and experience acceptable to the "CDRI".
- (c) Any of the Personnel provided as a replacement under Clauses (a) and (b) above, as well as any reimbursable expenditures (including expenditures due to the number of eligible dependents) the Agencies may wish to claim as a result of such replacement, shall be subject to the prior written approval by the "CDRI". The rate of remuneration applicable to a replacement person will be the rate of remuneration paid to the replaced person. Also (i) the Agency shall bear all additional travel and other costs arising out of or incidental to any removal and/or replacement, and (ii) the remuneration to be paid for any of the Personnel provided as a replacement shall not exceed the remuneration which would have been payable to the Personnel replaced.

5.5 Resident Project Manager: not required.

6 OBLIGATIONS OF THE "CDRI"

6.1 Assistance and Exemptions: Unless otherwise specified in the SC, the “CDRI” shall use its best efforts to:

- (a) Coordinate with officials and other stakeholders to facilitate the project.
- (b) facilitate the process of data collection and meetings with the requisite stakeholders. But the primary responsibility for these will lie with the Agency.

6.2 Change in the Applicable Law Related to Taxes and Duties: If, after the date of this Contract, there is any change in the Applicable Laws of India with respect to taxes and duties, which are directly payable by the Agency for providing the services i.e. GST or any such applicable tax from time to time, which increases or decreases the cost incurred by the Agency in performing the Services, then the remuneration otherwise payable to the Agency under this Contract shall be increased or decreased accordingly by written agreement between the Parties hereto, and corresponding adjustments shall be made to the ceiling amounts specified in Clause GCC 7.1(b).

6.3 Services, Facilities and Property of the “CDRI”: (a) The “CDRI” shall make available to the Agency and its Personnel, for the purposes of the Services and free of any charge, the assistance as mentioned in GCC 6.1 above. (b) In case that such services, facilities and property shall not be made available to the Agency, the Parties may agree on any time extension that it may be appropriate to grant to the Agency for the performance of the Services.

6.4 Payment: In consideration of the Services performed by the Agency under this Contract, the “CDRI” shall make to the Agency such payments and in such manner as is provided by Clause GCC 7 of this Contract.

7 PAYMENTS TO THE AGENCY

7.1 Total Cost of the Services

- (a) The total cost of the Services payable is set forth in Appendix D as per the Agency’s proposal to the CDRI.
- (b) Except as may be otherwise agreed under Clause GCC 2.6 and subject to Clause GCC 7.1(c), payments under this Contract shall not exceed the amount specified in Appendix-D.
- (c) Notwithstanding Clause GCC 7.1(b) hereof, if pursuant to any of the Clauses GCC 5.2(c) or 6.2 hereof, the Parties shall agree that additional payments shall be made to the Agency in order to cover any necessary additional expenditures not envisaged in the cost estimates referred to in Clause GCC 7.1(a) above, the ceiling or ceilings, as the case may be, set forth in Clause GCC 7.1(b) above shall be increased by the amount or amounts, as the case may be, of any such additional payments through a written agreement only.

7.2 Currency of Payment: All payments shall be made in Indian Rupee after deductions mandated under Applicable Law.

7.3 Terms of Payment The payments in respect of the Services shall be made as follows:

- (a) The Agency shall submit the invoice for payment when the payment is due as per the agreed terms. The payment shall be released as per the work-related milestones achieved and as per the specified percentage (payment schedule) as per SCC 13.
- (b) Once a milestone is completed, the Agency shall submit the requisite deliverables as specified in this Contract. The CDRI shall release the requisite payment upon acceptance of the deliverables. However, if the CDRI fails to intimate acceptance of the deliverables or its objections thereto, within 30 days of receipt of it, the CDRI shall release the payment to the Agency without further delay.
- (c) **Final Payment:** The final payment as specified in SC 13 shall be made only after the final reports and a final statement, identified as such, shall have been submitted by the Agency and approved as satisfactory by the "CDRI". The Services shall be deemed completed and finally accepted by the "CDRI" and the final report and final statement shall be deemed approved by the "CDRI" as satisfactory ninety (90) calendar days after receipt of the final report and final statement by the "CDRI" unless the "CDRI", within such ninety (90) day period, gives written notice to the Agency specifying in detail deficiencies in the Services, the final report or final statement. The Agency shall thereupon promptly make any necessary corrections, and thereafter the foregoing process shall be repeated. Any amount, which the "CDRI" has paid or caused to be paid in accordance with this Clause in excess of the amounts actually payable in accordance with the provisions of this Contract, shall be reimbursed by the Agency to the "CDRI" within thirty (30) days after receipt by the Agency of notice thereof. Any such claim by the "CDRI" for reimbursement must be made within twelve (12) calendar months after receipt by the "CDRI" of a final report and a final statement approved by the "CDRI" in accordance with the above.
- (d) For the purpose of payment under Clause 7.3 (b) above, acceptance means; acceptance of the deliverables by the CDRI after submission by the Agency and the Agency has made presentation to the CMC / CDRI with / without modifications to be communicated in writing by the CDRI to the Agency.
- (e) If the deliverables submitted by the Agency are not acceptable to the CDRI / CMC, reasons for such non-acceptance should be recorded in writing; the CDRI shall not release the payment due to the Agency. This is without prejudicing the CDRI's right to levy any liquidated damages under Clause GCC 10. In such case, the payment will be released to the Agency only after it re-submits the deliverable, and which is accepted by the CDRI.
- (f) All payments under this Contract shall be made to the accounts of the Agency specified in the SCC.
- (g) With the exception of the final payment under (c) above, payments do not constitute acceptance of the Services nor relieve the Agency of any obligations hereunder, unless the acceptance has been communicated by the CDRI to the Agency in writing and the Agency has made necessary changes as per the comments / suggestions of the CDRI communicated to the Agency.
- (h) In case of early termination of the contract, the payment shall be made to the Agency as mentioned here with: (i) Assessment should be made about work done from the previous milestone, for which the payment is made or to be made till the date of the termination. The Agency shall provide the details of persons reasonably worked during this period with supporting documents. Based on such details, the remuneration shall be calculated based on the man month rate as specified. (ii) A reasonable assessment of the reimbursable and miscellaneous expenses shall be made based

on details furnished by the Agency in this regard with supporting documents and based on the assessment of the work done and the respective rates as provided. Wherever such an assessment is difficult, the rates should be arrived at by calculating the amount on pro-rata basis. The total amount payable shall be the amount calculated as per (i) and (ii) above plus any applicable tax.

8 FAIRNESS AND GOOD FAITH

8.1 Good Faith: The Parties undertake to act in good faith with respect to each other's rights under this Contract and to adopt all reasonable measures to ensure the realization of the objectives of this Contract.

8.2 Operation of the Contract: The Parties recognize that it is impractical in this Contract to provide for every contingency which may arise during the life of the Contract, and the Parties hereby agree that it is their intention that this Contract shall operate fairly as between them, and without detriment to the interest of either of them, and that, if during the term of this Contract either Party believes that this Contract is operating unfairly, the Parties will use their best efforts to agree on such action as may be necessary to remove the cause or causes of such unfairness, but no failure to agree on any action pursuant to this Clause shall give rise to a dispute subject to arbitration in accordance with Clause GCC 9 hereof.

9 SETTLEMENT OF DISPUTES

9.1 Amicable Settlement: Performance of the contract is governed by the terms & conditions of the contract, in case of dispute arises between the parties regarding any matter under the contract, either Party of the contract may send a written Notice of Dispute to the other party. The Party receiving the Notice of Dispute will consider the Notice and respond to it in writing within 30 days after receipt. If that party fails to respond within 30 days, or the dispute cannot be amicably settled within 60 days following the response of that party, clause GCC 9.2 shall become applicable.

9.2 Arbitration: In the case of dispute arising upon or in relation to or in connection with the contract between the CDRI and the Agency, which has not been settled amicably, any party can refer the dispute for Arbitration under (Indian) Arbitration and Conciliation Amendment Act, 2019 as may be amended from time to time. Such disputes shall be referred to a sole Arbitrator mutually amended by the Parties. In case of failure of the appointment of the Sole arbitrator, the matter will be decided in accordance with the provisions of the Arbitration Act 2019.

9.3 Arbitration proceedings shall be held in India at the place indicated in SCC and the language of the arbitration proceedings and that of all documents and communications between the parties shall be English.

9.4 The decision of the sole arbitrator shall be final and binding upon both parties. The fees and expenses of the Arbitrator as determined by the arbitrator shall be shared equally by the CDRI and the Agency. However, the expenses incurred by each party in connection with the preparation, presentation shall be borne by the party itself. All arbitration awards shall be in writing and shall state the reasons for the award.

9.5 The Courts of New Delhi, India shall have exclusive jurisdiction in all disputes and differences arising out of or in relation to this Contract and these dispute and arbitration clauses will survive the termination of this contract.

10 Liquidated Damages

10.1 The parties hereby agree that due to negligence of the Agency, if the CDRI suffers losses, damages the quantification of which may be difficult, and hence the amount specified hereunder shall be construed as reasonable estimate of the damages and both the parties agree to pay such liquidated damages, as defined hereunder as per the provisions of this Contract.

10.2 The amount of liquidated damages under this Contract shall not exceed 10 % of the total value of the contract as specified in Appendix D. The overall liability under the engagement not to exceed the fees paid to Agency hereunder without any exceptions. Also, the Agency shall not be liable for indirect/consequential losses of any nature whatsoever.

10.3 The liquidated damages shall be applicable under following circumstances:

- (a) If the deliverables are not submitted as per schedule as specified in SCC 13, the Agency shall be liable to pay 1% of the total cost of the Services for delay of each week or part thereof.
- (b) If the deliverables are not acceptable to the CDRI as mentioned in GCC Clause 7.3 (f), and defects are not rectified to the satisfaction of the CDRI within 30 days of the receipt of the notice, the Agency shall be liable for Liquidated Damages for an amount equal to 1 % of total cost of the Services for every week or part thereof for the delay.

11 Miscellaneous provisions:

- (i) Any failure or delay on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.
- (ii) The Agency shall notify the CDRI of any material change in their status where such change would impact on performance of obligations under this Contract.
- (iii) Each member/constituent of the Contractor/Agency, in case of a Joint Venture, shall be jointly and severally liable to and responsible for all obligations towards the CDRI for performance of works/services including that of its Associates/Sub Contractors under the Contract.
- (iv) It is acknowledged and agreed by all Parties that there is no representation of any type, implied or otherwise, of any absorption, regularization, continued engagement or concession or preference for employment of persons engaged by the (Contractor/Agency) for any engagement, service or employment in any capacity in any office or establishment of the Government of India or the CDRI.

12. INDEMNIFICATION:

12.1 The Agency shall always indemnify and keep indemnified the CDRI against all claims/damages etc. for any infringement of any Intellectual Property Rights (IPR) while providing its services under the Project.

- 12.2 The Agency shall at all times indemnify and keep indemnified the CDRI/Government of India against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its (the Agency's) employees or agents or by any other third Party resulting from or by any action, omission or operation conducted by or on behalf of the Agency.
- 12.3 The Agency shall at all times indemnify and keep indemnified the CDRI against any and all claims by Employees, Workman, Contractors, sub-contractors, suppliers, agent(s), employed engaged or otherwise working for the Agency, in respect of wages, salaries, remuneration, compensation or the like. This clause shall not be construed by the Agency as permitting sub-contracting of the Services or authorising the Agency to appoint a Sub-Agency for rendering part of the Services under this Contract. It is made expressly clear that the Services to be rendered under this Contract shall not be sub-contracted by the Agency.
- 12.4 All claims regarding indemnity shall survive the termination or expiry of the Contract.

III. Special Conditions of Contract:

SC Clause	Ref. of GCC Clause	Amendments of, and Supplements to, Clauses in the General Conditions of Contract
1.	1.5	<p>The addresses are:</p> <p style="margin-left: 40px;">1. “CDRI”: CDRI, 4th & 5th Floor, Bhartiya Kala Kendra, 1 Copernicus Marg, New Delhi – 110001</p> <p style="margin-left: 40px;">Attention: Megha Punia</p> <p style="margin-left: 40px;">2. Agency: _____ _____ _____</p>
2.	1.7	[Lead Agency]
3.	1.8	<p>The Authorized Representatives are:</p> <p style="margin-left: 40px;">For the “CDRI”: Megha Punia, Dy. Dir (HR & Admin)</p> <p style="margin-left: 40px;">For the Agency: _____</p>
4.	2.1	<p>The contract shall come into effect after fulfilment of the following conditions: 1. Contract is signed by both parties; 2. Submission of Performance Guarantee by Agency; 3. Approval of CDRI in writing.</p>

5. 2.2 The time period shall be [45 days].
6. 2.3 The time period shall be [15 days].
7. 2.4 The time period shall be [Twelve months].
8. 3.4 Limitation of the Agencies' Liability towards the "CDRI". the Agencies liability under the Contract shall be in accordance with the GCC
9. 3.5 The risks and the insurance coverage shall be as follows:
 - (a) Third Party motor vehicle liability insurance in respect of motor vehicles operated in the Government's country by the Agency or its Personnel, with a minimum coverage as per applicable laws of India;
 - (b) Third Party liability insurance, with a minimum coverage as per applicable laws of India;
 - (c) Professional liability insurance to cover the CDRI against any loss suffered by the CDRI due to the professional service provided by the Agency, with a minimum coverage of as per applicable laws;
 - (d) Workers' compensation insurance in respect of the Personnel of the Agency, in accordance with the relevant provisions of the applicable Laws of India, as well as, with respect to such Personnel, any such life, health, accident, travel or other insurance as may be appropriate; and
 - (e) Insurance against loss of or damage to (i) equipment purchased in whole or in part with funds provided under this Contract,(ii) the Agency's property used in the performance of the Services, and (iii) any documents prepared by the Agency in the performance of the Services, by theft, fire, or any natural calamity.
- 10 5.5 Resident project manager = No
11. 6.1 Only as specified in GCC.
12. 7.1 (b) The Contract price is: _____ [*insert amount and currency for each currency as applicable*] [*indicate: inclusive or exclusive*] of local indirect taxes.

Any indirect local taxes chargeable in respect of this Contract for the Services provided by the Agency shall *is included* by the Agency.

The amount of such taxes is _____ [insert the amount as finalized at the Contract's negotiations on the basis of the estimates provided by the Agency in Form FIN-1 of the Agency's Financial Proposal.
13. 6.3
 - Payment will be made based on milestones indicated for each activity as below:

S. No.	Milestone	Timeline T ₀ + days (number of days available for activity)	% amount of total to be disbursed after completion and verification of milestone	Absolute amounts to be disbursed after completion and verification of milestone
1				
2				
3				
4				
5				
6				
7				
8				
9				

2. Timeline for Invoice processing: within 30 days of acceptance of deliverables and invoice.

14. 8.3 The Arbitration proceedings shall take place in New Delhi, India.

Binding signature of CDRI Signed by Megha Punia, Dy. Dir (HR& Admin), Coalition for Disaster Resilient Infrastructure

Binding signature of Agency Signed by _____

(for and on behalf of _____)

IV. Appendices

APPENDIX A – DESCRIPTION OF SERVICES

APPENDIX B - REPORTING REQUIREMENTS

APPENDIX C – STAFFING SCHEDULE

APPENDIX D – Total COST OF SERVICES and Schedule of Payments

The Total Cost of Services shall be Rs. _____ (Rupees _____ only).

APPENDIX E - DUTIES OF THE “CDRI”

The CDRI would not be providing any facilities to the Agency for this project apart from those mentioned in clause 6.1 of GCC in this contract.

ⁱ Coalition for Urban Transitions (2021) Seizing the Urban Opportunity <https://urbantransitions.global/urban-opportunity/seizing-the-urban-opportunity/>