

Study to enhance the resilience of Odisha's power infrastructure: Components II and III

Pre-Proposal queries and replies

Reference No: CDRI/02-01002/1/2020-DIR_HR-OPS/RFP

RFP Title: Selection of Consulting Services for Study to Enhance the Resilience of Odisha's Power Infrastructure - Components II And III

Name of the Organisation: Coalition for Disaster Resilient Infrastructure Society

Title of Consulting Services: Study to Enhance the Resilience of Odisha's Power Infrastructure - Components II And III

The following table collates the comments/queries/requests received by CDRI by 5pm on 20 November 2020 from all consultants and replies of CDRI thereon. This document is being shared with all the consultants along with the Requests for Proposal revised based on suggestions and comments in this document.

On Scope of Mapping and Data Availability – Hazards and Exposure

S. No.	Page No.	Clause	Comments / Query / request from Consultant	CDRI Reply / clarification
1.		<p>SECTION 4: TERMS OF REFERENCE (TOR) 7. Component II: Risk mapping and improvement of infrastructure, 1, 1.2, 2</p> <p>Mapping of exposure of all existing components of the system to multi-hazards threats. This will involve creating a GIS based geo-referenced register of all power sector assets, from power generation up to the last mile distribution transformers, derived from existing maps and GIS databases, and verified through sample-based ground-truthing. This mapping should overlay on the hazard map created in 1 and will include the mapping of user group typologies like urban areas, villages, and industry.</p>	<p>1. What's the expectation on geo-referenced register, its to be clarified are all the system elements across power sector value chain are to be mapped starting from Boilers in Generation plants to LT lines in Distribution?</p> <p>2. You have mentioned "derived from existing maps and GIS databases" are all the coordinated going to be made available to consultant? If no, getting the coordinates for entire power system components is humongous task and will require at least a year in itself? same may be thought through. Rather we propose that CDRI should only provide pathway or a roadmap on same via Geo reference of few critical components across the power sector value chain and after that it should be made mandatory for the power infrastructure stakeholders to get the Geo references register created on their own under a separate project?</p> <p>3. This geo referencing activity of entire system will incur a huge cost, funding of same may also be thought through at CDRI's end, is this going to be internally funded by CDRI or some other agency?</p> <p>It is recommended that a pilot(for a sample Hazard Impacted area) may be included in the scope rather than for entire power system element across Odisha.</p>	<p>The aim of this study is to provide a roadmap to Odisha State for improving the disaster resilience of their power infrastructure. Components relating to mapping and analysis are being conducted to satisfy two objectives:</p> <p>1. To create a solid, indisputable evidence-base for the proposals made in Component III.</p> <p>2. To create a robust methodology that can inform any power utility across the world on the steps to be taken to achieve disaster resilient power infrastructure.</p> <p>All requirements may be understood in light of the above.</p> <p>The focus on the current study is on Transmission and Distribution infrastructure. The risk analysis will start at the first Substation after generation plant and extend up to the last mile 11Kv Distribution Transformers. Generation assets are to be included in mapping but not analysis.</p> <p>For Mapping Transmission Infrastructure:</p> <p>The Odisha Power Transmission Corporation Limited (OPTCL) has created GIS maps of their entire assets including generation plants. The GIS maps include line and point GPS data as well as asset attributes such as type, span etc. along with photos of the asset.</p> <p>This GIS data will be made available to the Consultant. The task of Mapping by the consultant will involve collating the data from these sources onto a single GIS map and to carry out sample-based ground truthing (2% sample size) of the GIS maps to verify their accuracy.</p>

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				<p>For Mapping Distribution Infrastructure:</p> <p>GIS maps and Google maps with limited attribute data are available for few parts of the state. Physical mapping of all distribution assets is out of the scope of this study.</p> <p>A district wise list of assets is available with the utilities and this shall be combined with data on locations of habitations, population sizes and other relevant data to estimate/triangulate the locations and numbers of distribution assets in different hazard typologies and corresponding administrative blocks. This should be verified through sample-based ground-truthing for a 1% sample size for Distribution Transformers to reconcile the estimates.</p> <p>The samples should be selected through stratified-random sampling to ensure coverage of power infrastructure in all hazard typologies.</p> <p>The accuracy of maps should be sufficient to estimate the number and types of power assets to exposed to hazards, estimate the cost of these assets, and provide the state with a dependable roadmap for investment in upgrading the disaster resilience of their Power Infrastructure in Component III of the study.</p>
2.		<p>SECTION 4: TERMS OF REFERENCE (TOR), 7. Component II: Risk mapping and improvement of infrastructure , 2.2. Key Tasks: Codes, standards, and designs:</p> <p>Analysing the entire power system, network design, system planning criteria (like load limits etc.), and reliability criteria used in Odisha, to carry out a criticality analysis and identify the most critical combination of assets that need to be hardened or made redundant to improve system reliability and resilience. This would be based on the second and third order risk assessment from Component II.1.</p>	<ol style="list-style-type: none"> Clarity is sought in this, is there a expectation that design of each component of power system across Generation, transmission and distribution be analysed? Considering this is just a small component of this C:2 & C:III study, and would itself require several months, hence CDRI shall assess the sufficiency of project duration also to carry out the activities mentioned on this RfP This activity covering entire system will incur a huge cost, funding of same may also be thought through at CDRIs end, is this going to be internally funded by CDRI or some other agency? 	<p>The consultant would be creating typologies of hazard exposure zones and select representative samples to identify fragile / critical components.</p>
3.		<p>SECTION 4: TERMS OF REFERENCE (TOR), 7. Component II: Risk mapping and improvement of infrastructure , 2.2. Key Tasks: Codes, standards, and designs: 6</p> <p>Analyzing the existing codes and standards relating to T&D towers and conductors using instances of failure. This will be</p>	<ol style="list-style-type: none"> Considering this is just a small component of this C:2 & C:III study, and would itself require several months, hence CDRI shall assess the sufficiency of project duration also to carry out the activities mentioned on this RfP. or a sample size of the ask may be clarified on this.? 	<p>The consultant would be creating typologies of hazard exposure and select representative samples. The consultant would go through a consultative process with key informants within Odisha Power stakeholders to understand failures observed in past events and these would be used as an input parameter for defining vulnerability curves.</p>

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		including and not limited to – span between towers, foundations, stringing methods, tower type, materials and designs and conductor materials, joints, and strength standards.	it is to be clarified that who is going to provide all the system details like span lengths, component design details etc?	
4.		SECTION 4: TERMS OF REFERENCE (TOR), 7. Component II: Risk mapping and improvement of infrastructure , 2.2. Key Tasks: Codes, standards, and designs: ; 4 Survey of adherence to above mentioned standards for identifying gaps between design and implementation	<p>1. Clarity is sought on this, is there a expectation that design and actual implemented be compared for each component of power system across Generation, transmission and distribution? If Yes, this will be a humongous task and will require several months in itself? same may be thought through. Rather a sample check may be mandated in this RfP?</p> <p>2. Considering this is just a small component of this C:2 & C:III study, and would itself require several months, hence CDRI shall assess the sufficiency of project duration also to carry out the activities mentioned.</p> <p>This activity covering entire system will incur a huge cost, funding of same may also be thought through at CDRI's end, is this going to be internally funded by CDRI or some other agency?</p>	The consultant would select representative samples to analyze with an aim to identify common issues and gaps between design and implementation.
5.		7. Component II: Risk mapping and improvement of infrastructure, 2.2. Key Tasks: Codes, standards, and designs: ; 5 A component-wise technical analysis of reasons for failure of each component, due to the impact of natural hazards. An SOP would need to be defined to ensure a technical evaluation of reasons for component failure after every disastrous event.	<p>1. Clarity is sought on this, is there a expectation that reason for failure of each component of power system across Generation, transmission and distribution will be ascertained? If Yes, this will be a humongous task and will require at least a year in itself? Same may be thought through. Rather a sample check may be mandated in this RfP?</p> <p>2. Are all the past disasters to be covered in determining the reasons for failure of each component? If yes who is going to provide the past data for same?</p> <p>3. Considering this is just a small component of this C:2 & C:III study, and would itself require several months, hence CDRI shall assess the sufficiency of project duration also to carry out the activities mentioned.</p> <p>This activity covering entire system will incur a huge cost, funding of same may also be thought through at CDRI's end, is this going to be internally funded by CDRI or some other agency?</p>	The consultant would select representative samples to analyze. For each component identified, the consultant shall define fragility/vulnerability curves for various hazards. The consultant would go through a consultative process with key informants within Odisha power stakeholders to understand failures observed in past events and these would be used as an input parameter for defining vulnerability curves.
6.		SECTION 4: TERMS OF REFERENCE (TOR), 7. Component II: Risk mapping and improvement of infrastructure, 2.2. Key Tasks: Codes, standards, and designs: ; 16	1. Clarity is sought on this, is there a ask to identify the Gaps in Operations and Maintenance activities activities separately across T&D?	The consultant would select representative samples to analyze and identify gaps through triangulation of data from various sources.

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		Development / improvement of standards for O&M of T&D infrastructure. Especially of 11kV lines and distribution lines	Considering this is just a small component of this C:2 & C:III study, and would itself require several months, hence CDRI shall assess the sufficiency of project duration also to carry out the activities mentioned.	
7.		<p>SECTION 4: TERMS OF REFERENCE (TOR), 7. Component II: Risk mapping and improvement of infrastructure3. CII.3 - Technology and innovation:, 3.1, 1</p> <p>Documentation of current materials, technologies, and designs being used in Odisha for all components of power infrastructure</p>	<p>1. Clarity is sought on this, is there a expectation that consultant is to document the current materials, technologies, and designs being used in Odisha for all components of power infrastructure across Generation, transmission and Distribution? If Yes, this will be a humongous task and will require at least a year in itself? Same may be thought through. Rather a sample documentation of few components may be mandated in this RfP?</p> <p>This activity covering entire system will incur a huge cost, funding of same may also be thought through at CDRI's end, is this going to be internally funded by CDRI or some other agency?</p>	The consultant would select representative samples to analyze. As clarified earlier.
8.		<p>Component II: Risk mapping and improvement of infrastructure,1. CII.1 - Risk identification and estimation 1.2. Key Tasks:</p> <p>1. Identification of multi-hazards impacting the power infrastructure to:</p> <p>a. Map of intensities of these hazards across the state, based on inputs from existing sources;</p>	Can you please clarify on what will be the existing sources	The existing sources of hazard data as available and provided by the Odisha State Disaster Management Authority.
9.		<p>Component II: Risk mapping and improvement of infrastructure,1. CII.1 - Risk identification and estimation 1.2. Key Tasks:</p> <p>6. Assessment of second order risk. Second order effects include loss of revenue and impacts on ongoing works and development plans.</p>	What does "ongoing works" mean, can you please clarify	Ongoing works would mean the works of the Energy Department that were planned and in-process, that would get hampered due to diversion of resources toward recovering from the disaster.
10.		<p>Component II: Risk mapping and improvement of infrastructure,1. CII.1 - Risk identification and estimation 1.2. Key Tasks:</p> <p>Assessment of third order risks. These can be captured as Probable Maximum Losses in other sectors because of the loss of power supply. This will aid in making a case to the national and state governments for investing in resilient power.</p>	Please clarify which all sectors are to be covered? Who will provide the power outage related data? What of same data is not available?	<p>The objective of this analysis is to make the case for investing in the resilience of power infrastructure due to the dependence of various productive and social sectors on power. The consultant may choose the sectors that best highlight the need and make a good case.</p> <p>The OPTCL and GRIDCO maintain databases on outage data and the same will be gathered by the consultant.</p>
11.		<p>Component II: Risk mapping and improvement of infrastructure,1. CII.1 - Risk identification and estimation 1.2. Key Tasks:</p> <p>Prioritisation of infrastructure components having high</p>	Who will provide the complete asset details, these stakeholder who are to provide the data pertaining to this RfP shall be mentioned in this RfP.	The government power sector stakeholders in Odisha and at National level have been engaged in the development of this RFP and have committed to provide all data required for this project.

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		criticality and high vulnerability to various hazards to which they are exposed. Asset prioritisation matrix for decision making on investment in reconstruction, retrofitting or relocation.		
12.		Component II: Risk mapping and improvement of infrastructure,1. CII.1 - Risk identification and estimation 1.3. Deliverable a Documentation of existing sources of risk data for various hazards (hazard intensity and probability, vulnerabilities, and exposure) to devise a mechanism for the continuous updating of risk scenarios.	Can you please clarify, in this deliverable is the consultant just supposed to mention a list of Entities that provide risk hazard data in context to Odisha? And no other action is required on this.	This point does not stand alone and may be read in conjunction with all Key Tasks and Deliverables of Component II and III.
13.		Component II: Risk mapping and improvement of infrastructure,1. CII.1 - Risk identification and estimation 1.3. Deliverable c Geo-referenced asset register of power infrastructure to map component wise exposure	Can you please confirm if the asset register is already available with the Odisha state power sector infrastructure entities, this is required for the consultant to estimate the project cost.	Geo-referenced asset map for power generation, transmission lines, sub-stations, and Distribution Transformers to map component wise exposure in different hazard zones. Asset data is available with the utilities. Scope of mapping has been clarified earlier.
14.		Extension of timeline of the project.	The project requires mapping of all the Power utilities and infrastructure which amounts of considerable number of assets in the grid. In case the data is unavailable it would require consultant to carry out this work. This would certainly involve larger time frame than the current listed. Hence, it's requested to increase the time frame to anywhere between 12-18 months as I'm factoring in institutional delays. It may be considered that some representative sampling may be adopted to map and recommendations rather than for individual/each asset. This would help in replicating the strategies to similar infra across the state. This would also help in reducing the time requirement.	Clarified earlier.
15.	45	Component II: Risk mapping and improvement of infrastructure, The study will use hazard data and findings from existing sources to infer the multi-hazard risk of direct losses to power infrastructure in the state.	Hazard data is needed to map the hazard risk zones. We understand that CDRI will support in getting the Hazard maps for the project area. Please clarify?	Clarified earlier.
16.	46	1.2. Key Tasks: Point 2 This will involve creating a GIS based geo-referenced register of all power sector assets, from power generation up to the last mile distribution transformers, derived from existing maps and GIS databases, and verified through sample-based ground-truthing.	Kindly provide the complete details of existing maps and GIS databases?	Clarified earlier.

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17.	Page 47	Disseminate the findings to state and national actors: Implement a GIS based system for Dept. of Energy in Odisha to maintain and update a complete asset register and monitor risks to power system components in Odisha.	Can we understand that Asset Register for power infrastructure for enter state is already mapped and available in GIS ready format. Does GIS system is needed to maintain and update assets Inventory. Please clarify?	Asset register is clarified above. GIS related queries are addressed below.
18.			Regarding coordination with Odisha's government counterparts: Are there coordination mechanisms already in place with the key local government counterparts to support engagement and information sharing on this work? Should there be resources allocated in the budget around such coordination activities?	The Ministry of Power, Central Electricity Authority (CEA), Department of Energy, Odisha State Disaster Management Authority (OSDMA), OPTCL, GRIDCO, POWERGRID have been involved in the development of this project. The CDRI has assurances from the highest levels for support on this project. Three senior nodal officers from GRIDCO, OSDMA and Finance Department, Government of Odisha have been nominated by Odisha Government to support the study and resolve difficulties faced by CDRI's consultant.
19.		SCOPE OF Work	Hazard Map and GIS Map of all Power Infrastructure Elements from Generating Stations to Distribution Transformers will be provided to Cosnultant or to be prpared by the consultant	Clarified earlier.
20.		SCOPE OF Work	What is the sample size to validate the available GIS Maps.	Clarified earlier.
21.			Detailed scope of survey and mapping (till what asset level?) a. Do we already have data on underground cabling or new survey needs to be done? b. More clarity needed for survey: does the consultant need to resurvey the RAPDRP towns or only update one time?	The study scope will begin from the first Sub-Station after the generation plant up-to the last mile 11kV Distribution Transformer. Consultant would not be resurveying RAPDRP towns, only using existing data and carrying out sample-based verification as clarified earlier.

On GIS – Use and scope of handover

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22.		SECTION 4: TERMS OF REFERENCE (TOR) 7. Component II: Risk mapping and improvement of infrastructure 1. CII.1 - Risk identification and estimation, 1.3, 5a Implement a GIS based system for Dept. of Energy in Odisha to maintain and update a complete asset register and monitor risks to power system components in Odisha.	1. Asset register may be please defined, is it to be created for all the component of power system including Generation, transmission and distribution, If Yes, same will humongous task and will require at least a year in itself? Same may be thought through. Rather we propose that CDRI should only provide pathway or a roadmap on same via creation of a Asset register templates or for a sample components of system across Generation , Transmission and Distribution?	Need for mapping and "asset register" have been clarified above. The "GIS system" may be understood as a decision support tool in the form of a GIS map that integrates existing hazard data, exposure of assets, vulnerability database, and enables the Power stakeholders to make risk-based decisions. The output of this study, in the form of a web-based map of Odisha along with all back-end data will be kept on CDRI servers and would feed into the existing system used by the state.

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			<p>2. This asset register creation activity of entire system will incur a huge cost, funding of same may also be thought through at CDRI's end, is this going to be internally funded by CDRI or some other agency?</p> <p>3. Can you please clarify: *Is the consultant expected to establish the IT hardware, IT software, GIS knowledge transfer activity, creation of a GIS cell within the individual establishment of each of the power infrastructure stakeholder? If yes is it to be included in the Financial Bid? Also please clarify which GIS software is to be established?</p>	<p>The OPTCL uses GeoMedia software to maintain its GIS maps. The software is owned and operated by IT Department of OPTCL through trained professionals. The data will be provided to the consultant in the form of a Microsoft Excel / .KML file. Other base layers and hazard layers will be provided by the OSDMA and ORSAC as required by the consultant.</p>
23.		<p>Section 4 Component II and III</p> <p>Clause 7</p> <p>Sub-clause 1.2 (2) Mapping of exposure of all existing components of the system to multi-hazards threats. This will involve creating a GIS based geo-referenced register of all power sector assets, from power generation up to the last mile distribution transformers, derived from existing maps and GIS databases, and verified through sample-based ground-truthing. This mapping should overlay on the hazard map created in 1 and will include the mapping of user group typologies like urban areas, villages, and industry.</p>	<ul style="list-style-type: none"> The scope of work under table 1 of scope of work specify the baseline of T&D infrastructure in the 14 effected districts of Odisha. We request you to kindly specify, whether the Geo-referenced register has to be prepared for the baseline quantity or the damaged quantity. Please also specify the kind of support available for collection of data including location of UG cables and requirement to use GPR for the same. We request you to kindly provide us the information on satellite imagery available for analysis, its specification, scale of map (i.e. 1:12 or 1:2000), resolution etc. We request you to kindly clarify, if there is a requirement of image processing software to create different layers of object data. We request you to kindly clarify the requirement of cadastrel maps. Whether those would be overlaid with existing topographical maps. Further, we request you to kindly specify the percentage of sample-based ground-truthing. It is normally 10-12% as per present norms. <p>In view of the above, we request you to kindly exclude the preparation of the GIS register from this scope where an experienced GIS firm can be recruited for such specific scope. Further, the duration mentioned for geo-registers should be around 12-16 months considering the amount of data required for the same. This would create a level-playing field among the participants considering the objective of the assignment, as management/ technical consultants (<i>not providing GIS as a main service</i>) may estimate it differently and other niche providers may have a different view.</p>	<p>Clarified above.</p>

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24.	16	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	We understand that Proposed COTS software must use Open-Source Formats for creation and storage of Geo-Spatial information. Please Clarify?	As indicated in the RFP.
25.	16	Geospatial data and documentation standards, 18.2 Vector data: Geospatial vector data must be delivered in ESRI Shape File format and SpatiaLite database format.	Can we use PostGRE or OGC Geo-Package database which are open data formats for the project. Please clarify?	As indicated in the RFP.
26.	47	Disseminate the findings to state and national actors: Implement a GIS based system for Dept. of Energy in Odisha to maintain and update a complete asset register and monitor risks to power system components in Odisha.	Does the GIS based system needed for the project will be of Desktop GIS or Web-Enabled GIS system	The term "GIS system" has been clarified earlier. The consultant would develop a Web enabled GIS based decision support system pertaining to risk and risk responsive planning. Ideally the outputs of this project would be imported into the existing GIS platform of the state and used and maintained by them for risk informed planning and decision making. The entire database and map will be imported and retained on CDRI servers for future use.
27.		SCOPE OF Work	Is it the scope of Consultant to develop GIS Map of all assets of Power Infrastructure?	Clarified earlier.
28.		SCOPE OF Work	Do the consultant has to develop any GIS Dashboard for complete Power Infra Assets.	Clarified earlier.
29.		SCOPE OF Work	What is the format of GIS Maps to be handed over to consultant.	Clarified earlier.
30.		SCOPE OF Work	What are the existing sources/Departments of Data Collection.	Clarified earlier.
31.			Whether the consultant is supposed to develop an entirely new GIS system along-with creation of GIS data-sets? a. If so, whether the new system should communicate with the existing infrastructure and in that case, interoperability could be a major issue and using open-source GIS it may not suffice the requirements. b. Detailed specifications of the GIS based system and its capabilities. c. Up to what extent the mapping is needed to be done	Clarified earlier.

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			d. Are the satellite imagery and other data products would be provided to the consultant or they need to be procured at cost?	
32.			More clarity on final delivery of datasets: Would the data delivery be in PGDB for the mapping or only the shape files?	Clarified earlier.

On RFP Deadline and Project Timeline

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33.		Page 60: Clause No 11. Expected Timeline and Payment Schedule Within a total expected duration of 8 months the consultants shall propose delivery milestones and corresponding payment schedule as per their understanding of the project requirements and objectives as given in the TOR.	Same may be relooked into, as the scope mentioned in the RfP would require much more time than 8 Months	Not accepted.
34.			Is there a possibility of a deadline extension for the final submission of proposals/bids?	Extended.
35.	17	Data Sheet Serial No. 5 “ Date & time and address for submission of proposals/bids”	We request to extend the submission deadline by at least 2 weeks to prepare responsive proposal. Please accept.	Extended.
36.	60	SECTION 4: TERMS OF REFERENCE (TOR), “Expected Timeline and Payment Schedule”	Understanding the quantum of required work as per ToR and considering current COVID scenario, we suggest extending the project duration from 8 months to 12 months. Please accept	Not accepted.
37.	17	Data Sheet	Requesting to extend the Bid Submission Date for 30 Days from the Date of Clarification received from CDRI to analyse the project properly.	See above.
38.	17	Clause no. 05 in Bid Data Sheet Date & time and address for submission of proposals/bids: Date: 8th December 2020 Time: 1700 hrs.	Considering the paucity of time and in light if the existing COVID situation, it would be great if the deadline can be extended by a week or so to ensure a high quality submission.	See above.
39.		INSTRUCTIONS TO CONSULTANT PART-II DATA SHEET in Data Sheet S NO 5: Date: 8th December 2020	Same may be amended to as an extension up to: Date: 24th December 2020	See above.
40.			Is it possible to know a budget range for this work? (And if not, is it possible to estimate level of effort?)	As per RFP.

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41.		Extension of last date.	The work required is very extensive and multi-disciplinary. This would ideally require a strong partnership and collaborative mode as a way forward. Some (to at least couple of weeks) leeway on the last date can help galvanise this better.	See above.
42.	60	Clause No 11. Expected Timeline and Payment Schedule, Bullet point 2 "The payment schedule shall be such that the final payment on completion of the project and acceptance of deliverables shall constitute 30% of the total cost. The remaining 70% may be distributed reasonably over the project period and linked to specific deliverables."	There should be clarified on disbursement of remaining 70% payment, it is important for the consultant to plan/schedule the effort required accordingly.	Provision in RFP Modified accordingly.

On Team composition and qualifications of key experts

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43.		Evaluation Criteria for Technical Bids: 1. Table for evaluation of RFPs: S No 2 Qualifications and relevant experience of Key Staff (Table).	<p>In the RfP only 6 key staff members are mentioned, we propose that a larger team be considered for Evaluation, justification for same is as follows: Reasons for amendment:</p> <ol style="list-style-type: none"> 1. The Consultants manpower/resource capacity should be ascertained for such large assignments, judging a individual firm/association/consortium/JV on just 6 individuals for assignment with such large scope is not prudent. 2. A few more experts and corresponding skillsets are required to achieve the objective of the RfP, same are proposed below. <p>Proposed manpower structure in the interest of the project is below</p> <table border="1"> <thead> <tr> <th colspan="3">Annexure-1: Proposed Team Structure for evaluation also</th> </tr> <tr> <th>Key Personnels critical for evaluation in the Interest of project</th> <th>Experience</th> <th>No of Positions</th> </tr> </thead> <tbody> <tr> <td>Team Leader (with experience in power Sector, Disaster & Risk Management)</td> <td>20 Years</td> <td>1</td> </tr> <tr> <td>Power Distribution Expert-1 (Technical + Commercial Experience, Risk Management)</td> <td>15 Years</td> <td>1</td> </tr> <tr> <td>Power Distribution Expert-2 (Technical Experience)</td> <td>8 Years</td> <td>1</td> </tr> <tr> <td>Power Distribution Expert-3 (Commercial Experience, Risk Management)</td> <td>8 Years</td> <td>1</td> </tr> <tr> <td>Power Transmission Expert (Technical +</td> <td>15 Years</td> <td>1</td> </tr> </tbody> </table>	Annexure-1: Proposed Team Structure for evaluation also			Key Personnels critical for evaluation in the Interest of project	Experience	No of Positions	Team Leader (with experience in power Sector, Disaster & Risk Management)	20 Years	1	Power Distribution Expert-1 (Technical + Commercial Experience, Risk Management)	15 Years	1	Power Distribution Expert-2 (Technical Experience)	8 Years	1	Power Distribution Expert-3 (Commercial Experience, Risk Management)	8 Years	1	Power Transmission Expert (Technical +	15 Years	1	<p>Not accepted.</p> <p>As per the RFP: CVs of the Key Experts will be used for evaluation of Technical Bids. Any additional CVs will not be considered for evaluation. Consultants are to use any additional personnel (apart from the Proposed Team) as required to achieve the aims of the project. The CDRI reserves the right to seek more details regarding the qualifications and experience of the key experts.</p>
Annexure-1: Proposed Team Structure for evaluation also																									
Key Personnels critical for evaluation in the Interest of project	Experience	No of Positions																							
Team Leader (with experience in power Sector, Disaster & Risk Management)	20 Years	1																							
Power Distribution Expert-1 (Technical + Commercial Experience, Risk Management)	15 Years	1																							
Power Distribution Expert-2 (Technical Experience)	8 Years	1																							
Power Distribution Expert-3 (Commercial Experience, Risk Management)	8 Years	1																							
Power Transmission Expert (Technical +	15 Years	1																							

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44.		Part-II Data sheet Qualifications and relevant experience of Key Staff	<ul style="list-style-type: none"> There is some inconsistency noticed in defining the minimum years of experience vis-à-vis marking scheme for relevant projects & international experience. We request you to kindly broaden the definition of similar / relevant project, so as to include any or all elements of the scope of work. 	<ul style="list-style-type: none"> The minimum number of years of relevant experience in the TOR section 12 have been modified to remove the inconsistency. Accepted. Masters or PHD will get 100%. Bachelors 75%. 																																													

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			<ul style="list-style-type: none"> This being a commercial consulting assignment in a niche area and not a research work. We request the PHD or Master's degree should be preferred or given additional advantage for comparative evaluation of highest scored bidders but sub-points should not be allotted for the same. We request you to kindly specify the nature of international experience to be considered for evaluation purpose. 	<ul style="list-style-type: none"> International experience means work done in countries other than those of the person's country of citizenship. For Indians, it means work done outside India.
45.		Page-61 12. Staffing Requirements	Requesting to Assign highest mark to Master Degree as availability of PHD holders in mentioned fields in India is very few.	See above.
46.	61	SECTION 4: TERMS OF REFERENCE (TOR), "Staffing Requirements"	Expected inputs of Key Experts are not mentioned in the table of staffing requirements. Please suggest	TOR modified for clarity.
47.	61	SECTION 4: TERMS OF REFERENCE (TOR) "Team Composition"	Understanding the quantum of work related to power system components, we suggest including one Power Design Expert as a separate key expert in addition to Power Infrastructure expert. Please accept	Not Accepted.
48.	61	SECTION 4: TERMS OF REFERENCE (TOR), Requisite Expertise- Team Leader " Project and/or Operations leadership experience in power sector with work related to disaster risk management"	In Team Leader expertise criteria, we request to modify the expertise to "Project and/or Operations leadership experience in disaster risk management projects with work related to power sector risk assessment"	Not accepted.
49.	61	SECTION 4: TERMS OF REFERENCE (TOR), "Qualifications"	We suggest to keep 100 percent weight age for Postgraduation/ Master degree in lieu of PhD which most of the good experts in the Indian market have with required expertise. Please accept	Accepted. See above.
50.	22	Point No. 2 of Evaluation Criteria for Technical Bids under Clause no. 17 in Bid Data Sheet (Qualifications and relevant experience of Key Staff) Educational qualification (in field relevant to the allotted role)- : 100% for PHD 75% for Masters 50% for bachelor's degree	We request some relaxation in qualification criteria. We understand that PHD is desirable, but it should not be essential criteria in the marking scheme.	Accepted. See above.
51.			3. As the criteria for key personnel mention 5 years of experience of expertise and 5 years of international experience, are we expected to engage the international experts for the engagement?	See above.

S. No.	Page No.	Clause	Comments / Query / request from Consultant	CDRI Reply / clarification
52.			4. If yes, are the experts expected to be full time deployed in Orissa?	Consultant may propose deployment timeline to achieve the aims of the project.
53.		Re-consideration on Qualification vs. experience	Currently, too much weightage is provided for PhD and too little for work experience. It is recommended to provide some balance between the qualification vis a vis the work experience. Lowering of weightage for PhD may be complemented by increasing of work experience.	See above.
54.		2. The Qualifications and relevant experience of Key Staff will be evaluated on the basis of the following sub-criteria: Consideration column Educational qualification (in field relevant to the allotted role) (25%)	Same may be amended to for all the key staff required otr as proposed by us under S No21: 100% for Masters in Business Administration(MBA) or Post Graduate Diploma in Management (PGDM) 50% for bachelor's degree	See above.

On Criteria for evaluation of Technical Bids

S. No.	Page No.	Clause	Comments / Query / request from Consultant	CDRI Reply / clarification
55.	21	Data Sheet Serial No. 17 "Evaluation Criteria for Technical Bids"	Can one bigger project which has may components that can qualify different can be included	
56.		Part-II Data sheet 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.	Sub-criteria mentioned against each parameter is more or less is an absolute scale, where the points are awarded on the basis of number of projects / meeting qualifying requirements. The role and application of rating multiplier can be explained through an example for a better clarity.	As mentioned in the RFP, Rating Multiplier is not applicable to Projects. Rating multiplier applied in this case is 1.
57.		Part-II Data sheet The Consultant must have experience of at least 5 years in conducting similar studies with International/Central/State government and/or the private sector. (Self-declaration will suffice.)	Requesting you to kindly clarify the definition of 'similar studies' for the sake of clarity. As the scope has different elements from GIS mapping to organizational assessment.	Completed projects should demonstrate ability to take up the current assignment.
58.		Part-II Data sheet Evaluation Criteria for Technical Bids	Requesting you to kindly clarify the nature of assignments, to meet the qualifying requirement. For instance, completed projects in Power Infrastructure (Only projects relating to T&D). Whether those projects should have all elements of the scope of work or related to technical feasibility, project management, etc. can meet the requirement.	Completed projects should demonstrate ability to complete the current assignment. e.g. Project on feasibility of adoption of renewable energy in a region is NOT similar.

S. No.	Page No.	Clause	Comments / Query / request from Consultant	CDRI Reply / clarification
59.		Page-21 Evaluation Criteria for Technical Bids	Requesting to relax Number of Completed Projects by consultants to encourage healthy participation.	Not accepted.
60.	21	Data Sheet Serial No. 17 "Evaluation Criteria for Technical Bids"	Projects qualifying the RFP requirements have been majorly awarded in last 3-4 years after Sendai and SDG regulations fully came in place in different countries and few of these projects are still ongoing, we therefore request to accept ongoing projects to qualify project eligibility criteria with documentary evidence as letter of award or work order. Please accept	Ongoing projects with progress of more than 50% may be accepted on the discretion of the Core Committee evaluating the bids.
61.	21	Point No. 1 of Evaluation Criteria for Technical Bids under Clause no. 17 in Bid Data Sheet (Consultancy Firm's specific experience) Number of completed Projects in Disaster risk management within the power sector:- 3 Marks (1 Mark for each such project) Number of completed projects in Power Infrastructure (Only projects relating to T&D): 4 Marks (1 Mark for each such project) Number of completed projects in disaster risk assessment of infrastructure systems:-3 Marks (1 Mark for each such project)	The projects in Disaster risk management and Disaster risk assessment of infrastructure systems can be clubbed together as any one of this clause is sufficient to gauge bidders experience in Disaster and related sectors. We understand that credible experience in Disaster and Power sector is important for this project but experience in GIS too is an essential factor for successful project implementation and must have some weightage assigned to it. Our Suggestion- Number of completed projects in disaster risk assessment of infrastructure systems to be replaced by No of completed projects in GIS mapping, Preparation of GIS base maps, GIS based surveys etc.- Maximum 3 marks, 1 marks for each projects.	Partly agreed. RFP Modified.
62.			1. Does global projects qualify for the different scoring criteria as listed for Sl. No. 1?	Projects listed for other criteria may be included again in international projects and those involving multiple stakeholders. Project cost criteria added for clarity.
63.			2. Can same projects be used for different scoring criteria?	Projects listed for other criteria may be included again in international projects and those involving multiple stakeholders. Project cost criteria added for clarity.

Miscellaneous

S. No.	Page No.	Clause	Comments / Query / request from Consultant	CDRI Reply / clarification
64.	13	12.1 Earnest Money Deposit	MSME Registered Firms are exempted for submitting EMD. Please confirm.	CDRI is not a Government of India entity. Not accepted.

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65.	18	Clause no. 12 in Bid Data Sheet	<p>Earnest Money Deposit Amount = INR 5,00,000/- (Rs. Five Lakh Only)</p> <p>As per MSME Act, if a Company is registered under MSME, while making application for Government Tenders, bidder is exempted from submission of Tender Cost/Fee, EMD/Bid Security & Security Deposit/Performance Security</p> <p>In line with the above, kindly grant an exemption/relax the criteria for payment of Earnest Money Deposit (EMD) for those bidders who are registered under MSME Act and have valid MSME Registration Certificate.</p>	<p>CDRI is not a Government of India entity. Not accepted.</p>
66.		Waiver of EMD	<p>We request some waiver towards EMD for registered societies or not for profit recognized institutions. This would greatly help the financial strength and planning at the institutional level in current difficult times.</p>	<p>CDRI is not a Government of India entity. Not accepted.</p>
67.	17	Data Sheet, Serial No. 4 "Joint Venture"	<p>To fill the minor gaps of eligibility criteria, we request to allow sub consultancy mode of association with partners where the project liability is with lead firm only. Please accept.</p>	<p>The CDRI is flexible on the type mode of association between members of the consortium / joint ventures. The proposals will be assessed based on the combined experience of the members and no changes in the association would be allowed after submission of the RFP. No sub-contracting will be allowed after award of contract.</p>
68.		INSTRUCTIONS TO CONSULTANT PART-II DATA SHEET in Data Sheet S NO 12: Pre-qualification Documents: (PDF/ Folder A) (4), Documents of association / consortium / joint venture	<p>Please clarify what kind of document is required to ascertain the association / consortium / joint venture</p>	<p>The CDRI is flexible on the type mode of association between members of the consortium / joint ventures. The proposals will be assessed based on the combined experience of the members and no changes in the association would be allowed after submission of the RFP. No sub-contracting will be allowed after award of contract.</p>
69.		Financial Eligibility: a. The Consultant should have a minimum average turnover of USD 600,000 (or equivalent) for the last 3 financial years. Academic and research institutions may be exempted.	<p>Will it be a cumulative of association / consortium / joint venture members or just the Lead bidder requirement</p>	<p>Turnover of Lead bidder will be considered.</p>
70.		Bid Openings	<p>Technical score should be declared before the opening of Financial score as a general practice. Kindly confirm the process of Opening of Bids.</p>	<p>Decision will be taken by CDRI Core Committee evaluating the bids.</p>
71.	18	Data Sheet Serial No. 12 "Form Tech"	<p>There is no mention about Form Tech 10 in Data Sheet which are there in STANDARD FORMS- Section 3, page 38. Please clarify whether consultant needs to submit this form as a part of technical proposal or not.</p>	<p>Form 10 is to be filled.</p>

Requests for Information:

1. Legal name of the entity which will be signing the contract: **Coalition for Disaster Resilient Infrastructure Society (CDRIS)**
2. Ownership/Structure of Business of the entity signing the contract (Private, Public, Partnership, Proprietorship, Individual, Others): **Society registered under Society Registration Act, 1860.**
3. Key management personnel of the entity signing the contract (Chairman, Managing Director, Board of Directors, etc.): **Sh Sandeep Poundrik, IAS, CEO, CDRIS**
4. Parent Company of the entity signing the contract: **NA**
5. Ultimate Parent Company of the entity signing the contract: **NA**
