



ଓଡ଼ିଶା ସରକାର  
ରାଜସ୍ୱ ଓ ବିପର୍ଯ୍ୟୟ ପରିଚାଳନା ବିଭାଗ  
(ବିପର୍ଯ୍ୟୟ ପରିଚାଳନା)  
GOVERNMENT OF ODISHA  
REVENUE & DISASTER MANAGEMENT DEPARTMENT  
(DISASTER MANAGEMENT)

By Fax/e-mail/Post  
ରାଜୀବ ଭାବନ, ଭୁବନେଶ୍ୱର-୭୫୧୦୦୧  
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**REQUEST FOR EXPRESSION OF INTEREST**

**TO ENGAGE A CONSULTANCY FIRM FOR CONDUCTING STUDY ON  
LIGHTNING VULNERABILITY, INSTALLATION OF LIGHTNING  
DETECTION AND PREVENTION SYSTEM IN THE STATE OF ODISHA.**

**PART-I: EXPRESSION OF INTEREST (EOI)**

**1. Introduction:**

1. The Government of Odisha (hereinafter called "Borrower") through the Special Relief Commissioner, Revenue & Disaster Management Department intends to hire and engage a Consultancy Firm **for conducting study on lightning vulnerability, installation of lightning detection and prevention system in the state of Odisha..** This Expression of Interest (EOI) is therefore issued by the Special Relief Commissioner, Odisha.

2. The Institute/ Consultant/ Consultancy Firm will conduct detailed analysis of lightning related hazards in Odisha and would advise the State Government in preparing a comprehensive action plan on setting up infrastructure for detection of lightning, early warning dissemination, planning for prevention and mitigation, capacity building and setting up safe grid system and related multi hazard disaster management.

### 3. Details of the EoI:

Sl. No	Subject	Particulars
1	Project title	For selection of a Institute/ Consultant/ Consultancy Firm for conducting study on lightning vulnerability, installation of lightning detection and prevention system in the State of Odisha.
2.	Implementing Agency	Special Relief Commissioner, Odisha Rajiv Bhawan, Ground Floor, Bhubaneswar-751001
3	Implementing Department	Revenue and DM Department , Government of Odisha, Bhubaneswar, India
4	Contact Person	Sri Mihir Chand Mallick Additional Commissioner, Relief & Special Secretary to Govt. Telephone:0674-2394320 Fax:0674-2534177
5	Validity of proposal	Technical and Financial proposals to be valid up to 3 months
6	Website	<a href="http://inspavo.in/special_relief_commissioner/">http://inspavo.in/special_relief_commissioner/</a>

**Terms of Reference for selection of a Institute/ Consultant/  
Consultancy Firm for conducting study on lightning vulnerability,  
installation of lightning detection and prevention system in the State of  
Odisha.**

**1. Background and Rationale:**

Odisha is a multi hazard prone state. Government of Odisha has been proactively involved in comprehensive disaster management against all natural and man-made disasters and has achieved great success in reducing the losses. However, lightning has been a serious and devastating phenomenon in the State. During last 7 years, lightning has caused 2408 deaths more than any other natural disaster during the period. On an average, Odisha loses around 350 lives every year. Most deaths occur during the months from May to August (about 71%). High occurrence of deaths has been observed in Mayurbhanj, Ganjam, Keonjhar, Sundergarh, Cuttack, Balasore, Dhenkanal, Jajpur, Khordha and Nawarangpur districts. Government of Odisha intends to reduce the impacts through a *comprehensive lightning management programme* for which a suitable Institute/ Consultant/ Consultancy Firm will be hired to conduct a study on lightning hazard vulnerability of the state and to suggest preventive measures including providing technical inputs for installation of lightning detection, early warning and prevention mechanism.

**2. Objective:**

The Institute/ Consultant/ Consultancy Firm will conduct detailed analysis of lightning related hazards in Odisha and would advise the State Government in preparing a comprehensive action plan on setting up infrastructure for detection of lightning, early warning dissemination, planning for prevention and mitigation, capacity building and setting up safe grid system and related multi hazard disaster management.

### **3. Scope of Work**

The Institute/ Consultant/ Consultancy Firm should take up the following tasks:

- Vulnerability mapping of Odisha on lightning hazard up to the Block level.
- Setting up Lightning Detection and Early Warning System based on best available technology.
- Alert, warning and dissemination system and integration of lightning alerts with the existing warning and dissemination system.
- Enhance preparedness against Lightning/ thunderstorms by suggesting various institutional and community based measures.
- Prepare lightning prevention and mitigation plan for Odisha. It should be a multi-stakeholder plan with suggested amendments in various rules and regulations of state like building bye laws, schools and educational curriculum etc.
- Research and Development – To assist Odisha state in carrying out detailed research and analysis of lightning including impact assessment and developing methodology for risk reduction against lightning.
- Render technical advice for lightning protection infrastructure for various regions/ departments of the state including creation of Lightning Safe Grid in high risk areas and to cover various events like Rath Yatra etc., depending on their vulnerability profile.
- Capacity Building and Awareness - Assist in strengthening of ongoing training and awareness program against lightning including development of various IEC materials for electronic and print media.
- Mainstreaming of Lightning with other disasters management plans of the state, districts, other Departments Disaster Management plans and developmental programs.
- Strengthening of EOC s on early warning and dissemination system.

### **4. Deliverables:**

- Vulnerability mapping of Odisha for Lightning hazard and zoning up to block level.
- Develop state Lightning Action Plan including immediate, short term and long term plans.

- Technical Suggestions for setting up Lightning Detection, precise Lightning Alert warning and dissemination system based on available technology.
- Assist in integration of Lightning Early warning with the existing early warning and dissemination system.
- Enhancing preparedness of the State against Lightning/ thunderstorms by suggesting various institutional and community based measures.
- Lightning Prevention and Mitigation plan for Odisha. A multi-stakeholder plan to include suggested amendment in various rules and regulations of state like building bye laws, schools and education curriculum etc.
- Social impact assessment study on adverse effect of lightning and develop methodology for risk reduction against lightning.
- Lightning Safe Grid in high risk areas and to cover events like Rath Yatra etc., Prepare a plan based on priority as well as technical guidelines for lightning protection infrastructure for various regions/ departments of the state.
- Capacity Building and awareness - Assist in strengthening of ongoing training and awareness program against lightning.
- Develop various IEC materials for electronic and print media.
- Suggest system for Monitoring, evaluation, analysis and review for Lightning Risk Management.
- Prepare a draft plan for Mainstreaming of Lightning with other disasters management plans of the state, districts, other Departments Disaster Management plans and developmental programs.

## **5. Timeline**

All deliverables to be completed within 6 months of the signing of MoU/ contract or issue of Work Order, whichever is earlier.

## **6. Stakeholders**

The study will involve following key stakeholders:

- Office of the Special Relief Commissioner
- Odisha State Disaster Management Authority
- District Disaster Management Authority (DDMA) of Districts of Odisha.

- Related Departments of Government
- PRIs
- Any other

**7. Expected benefits:**

The study will help the State for:

- a) Drawing of a comprehensive action plan for reducing the lightning related deaths and other losses in the State.
- b) To draw a road-map for addressing emerging concerns related to lightning related disaster.
- c) A structure to develop and expand the work to other hazards the state is facing.

**8. Conditions under which the EoI is issued**

- a) This EoI is not an offer and is issued with no commitment. The Department reserves the right to withdraw the EoI and change or vary any part thereof at any stage. The Department also reserves the right to disqualify any bidder, should it be so necessary at any stage.
- b) The Department reserves the right to withdraw this EoI if it determines that such action is in the best interest of the Government of Odisha.
- c) Timing and sequence of events resulting from this EoI shall ultimately be determined by the Department.
- d) No oral conversations or agreements with any official, agent, or employee of the Department shall affect or modify any terms of this EoI and any alleged oral agreement or arrangement made by a bidder with any department, agency, official or employee of the Department shall be superseded by the definitive agreement that results from this EoI process. Oral communications by the Department to bidders shall not be considered as binding, nor shall any written materials provided by any person other than the Department.
- e) Neither the bidder nor any of the bidder's representatives shall have any claims whatsoever against the Department or any of their respective officials, agents or employees arising out of, or relating to this EoI or these procedures (other than those arising under a definitive service agreement with the bidder in accordance with the terms thereof).
- f) Applicants who are found to canvass, influence or attempt to influ-

ence in any manner the qualification or selection process, including without limitation, by offering bribes or other illegal gratification, shall be disqualified from the process at any stage.

g) Each applicant shall submit only one Pre-qualification requirements proposal.

## **9. Rights to the content of the proposal**

For all the bids received before the last date and time of bid submission the proposals and accompanying documentation of the Pre-qualification proposal will become the property of the Department and will not be returned after opening of the pre-qualification proposals. The Department is not restricted in its rights to use or disclose any or all of the information contained in the proposal and can do so without compensation to the bidders. The Department shall not be bound by any language in the proposal indicating the confidentiality of the proposal or any other restriction on its use or disclosure.

## **10. Acknowledgement of Understanding of terms.**

By submitting a proposal, each bidder shall be deemed to acknowledge that it has carefully read all sections of this EoI, including all forms, schedules and annexure hereto, and has fully informed itself as to all existing conditions and limitations.

## **11. Evaluation of the proposal.**

The Bidders' Proposals in the bid document will be evaluated as per the requirements specified in the EoI and adopting the qualification criteria spelt out in this EoI. The Bidders are required to submit all required documentation in support of the qualification criteria specified (e.g. detailed project citations and completion certificates, client contact information for verification, profiles of project resources and all others) as required for evaluation.

**12. Language of Proposals:**

The proposal and all correspondence and documents shall be written in English.

**13. Eligibility for Consultant:**

- a) A consultant may be a natural person, private entity, government owned entity or any combination of them.
- b) A Bidder or parties constituting the Consultant, shall have the nationality of India. A Bidder shall be deemed to have the nationality of India if the Consultant is a citizen or is constituted, or incorporated, and operates in conformity with the provisions of the laws of India. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including related services.
- c) A firm that is under a declaration of ineligibility by the Central / State Governments, in accordance with provisions of any law, at the date of the deadline for bid submission or thereafter, shall be disqualified.
- d) Government-owned enterprises shall be eligible only if they can establish that they are legally and financially autonomous and operate under commercial law.
- e) The agency should have offered similar consultancy services, i.e. preparation of action plan for preparedness, prevention and mitigation of lightning related disasters to any other state in the last 5 years i.e., after 31st March 2012 (A satisfactory performance certificate from Employer shall have to be furnished as proof).
- f) To have sufficient expertise in selection and field survey.
- g) Should have preferably an advanced university degree on cloud physics/atmospheric and oceanic science or related subject with minimum of 10 to 15 years of professional experience with proven skills and expertise.

**14. Documentary evidence to be submitted to support eligibility:**

- a) Contract/work orders indicating the details of assignment, client, value of assignment, date, and year of award.
- b) Detailed resume of the Team Leader and Team Members indicating the details of qualifications and professional experience.



c) Completion certificates of previous projects undertaken (desirable). In case, the organization is not able to submit completion certificates, submission of complete contact details (Telephone no, address, organization name) of the contact person where the work has been done is mandatory.

## **15. Proposal Submission:**

**The Expression of Interest (EoI)** will be invited from eligible consultants/consultancy firms in "two-bid" system with technical and financial bids sealed separately as follows.

- a) **Technical bid :-** with details of methodology, survey/ study Tools, manpower available, and other relevant aspects and work plan, and
- b) **Financial bid:-** containing the budget.

The consultant firm shall be selected using the Quality-Cost Based Selection/ Evaluation procedure and using the following methods:

The EoIs will be evaluated by a Technical Committee to shortlist eligible and qualified Institute/ Consultant/ Consultancy Firm as per technical bid. All the shortlisted Institute/ Consultant/ Consultancy Firm will be invited for technical presentation on such date and time as intimated over telephone or email. The shortlisted Technical & Financial bids are to be analyzed and evaluated by the Committee constituted under Rule 12(3) of the Delegation of Finance Power Rules to identify the bids which are technically & financially qualified. If needed, the Evaluation Committee will negotiate with the shortlisted organizations to determine a reasonable budget for the study. Special Relief Commissioner reserves the right to award the work to one or more organizations as it may feel necessary in the interest of timely completion of the study.

The technical and financial proposal must be submitted in two separate sealed covers indicating clearly on top as "TECHNICAL PROPOSAL" and "FINANCIAL PROPOSAL". Financial proposal to indicate a warning "DO NOT OPEN WITH THE TECHNICAL PROPOSAL". The covers containing the Technical

and Financial Proposals shall be placed into an outer envelope and sealed. This outer cover shall bear the title of the assignment "For **conducting study on lightning vulnerability, installation of lightning detection and prevention system in the State of Odisha.**"

**i. Technical Proposal Content**

Technical Proposal should be prepared considering the Terms of Reference, Detailed Approach & Methodology, Activity Schedule & Deliverables, Time period and any other information to highlight the capability of the consultancy firm.

Technical proposal must include:

- a) Brief description of the firm and about the Consultants,
- b) Experience of the firm in Consultancy.

In addition to the overall experience of the Consultancy firm, details of specific consultancy projects/studies undertaken may be included. They may also provide approximate value of the assignment, name of the client, starting and completion dates, names of the associates (other than Government Departments/ PSUs/ Large Public Limited Organizations) may be specifically mentioned.

- c) Approach,
- d) Methodology,
- e) Work Plan and Schedule, and
- f) Team size

Detailed Resume of the Team leader and team members of the consultancy (with copies of certificates to support qualifications)

**ii. Financial Proposal Content**

- Financial proposal (In Indian Rupees) should be in the form of a lump sum amount inclusive of all taxes for the entire Scope of Services.
- The lump sum quote should be inclusive of all expenses which the consultancy firm may incur while executing the assignment including Travel, Boarding & Lodging as required.

## 16. The Evaluation of Proposal:

The technical proposal will be evaluated as per the following criteria

Sl. No.	Description	Break up marks
<b>1</b>	<b>Past assignments/experience in work of similar nature (Government/PSU/Large Public Limited Organizations)</b>	<b>50</b>
<b>1.1</b>	<ul style="list-style-type: none"><li>• Number of assignments: Less than 2 (20 Marks)</li><li>• Number of assignments: Less than 5 and more than 2 (30 Marks)</li><li>• Number of assignments: between 5 and 8 (40 Marks)</li><li>• Number of assignments: 8 &amp; above (50 Marks)</li></ul> <p>(Marks will be awarded based on work and assignments of similar nature enclosed along with the Technical proposal)</p>	
<b>2.</b>	<b>Skills &amp; competencies</b>	<b>40</b>
<b>2.1</b>	Professional Experience <ul style="list-style-type: none"><li>•Between 10 and 15 yrs (10 Marks)</li><li>•Above 15 years (20 Marks)</li></ul>	
<b>2.2</b>	Team leader qualification <ul style="list-style-type: none"><li>a) Post- graduation/Engineering qualification (10 Marks)</li><li>b) Ph.D and above qualified degree (20 Marks)</li></ul>	
<b>3</b>	<b>Team Size</b>	<b>10</b>
<b>3.1</b>	Team size including team leader <ul style="list-style-type: none"><li>i)Up to 6 (5 Marks)</li><li>ii)More than 6 (10 Marks)</li></ul>	
	<b>Total</b>	<b>100</b>

- Evaluations will be based on documentary evidence submitted by the applicant with respect to evaluation / selection criteria.
- The technically qualified consultancy and consultants will be ranked based upon their marks obtained.

- The financial proposals of consultancy firm getting above 60% marks **ONLY** will be opened and the final selection will be made based upon the lowest cost quoted.

**17. EoI processing fees:**

A non-refundable processing fee for Rs.5000/- (Rupees Five Thousand only) in the form of a Demand Draft drawn in favour of "Special Relief Commissioner, Odisha" and payable at Bhubaneswar, Odisha has to be submitted along with the proposal. Bids received without or with inadequate processing fee shall be liable to get rejected.

**18. EMD:**

- (a) The technical bid must be accompanied with an EMD of Rs. 1,00,000/- (Rupees one lakh) only in shape of Bank Draft drawn in favour of The Special Relief Commissioner payable at Bhubaneswar. No interest will accrue on the Earnest Money.
- (b) Bids without prescribed earnest money will be rejected.
- (c) The earnest money will be refunded in case the tender process is cancelled by the Special Relief Commissioner.
- (d) The earnest money deposit of successful agency, if awarded with work, will be kept with the Special Relief Commissioner till the term of the agreement and will be refunded within 30 days from the termination of the contract agreement.
- (e) The earnest money deposit of the un-successful agencies will be refunded immediately without interest after the execution of the contract agreement with the selected agency.
- (f) The EMD will be forfeited if the Agency refuses to take up the work at the quoted price.

**19. Submission of Proposals**

1. Proposals should be addressed to:  
**The Special Relief Commissioner,  
Revenue & Disaster Management Department,  
Ground Floor, Rajiv Bhawan, Bhubaneswar-751001**
2. The bidder should mention his/her complete postal address and telephone number, fax number, e-mail address etc. on the bottom left hand side of the envelope. The agency may submit any other details that he may like to furnish.
3. Quotation received after the due date and time shall not be entertained.
4. Both the bids completed in all respects (Technical & Financial) should reach in the above address through registered post or speed post on or before 5.00 P.M. dated 18.12.2017. The date for opening of technical bid shall be intimated to the concerned agency by e-mail or fax. The date of opening of the financial bids shall be intimated to those firms later who shall qualify the technical bid.
5. The Special Relief Commissioner, Revenue & Disaster Management Department (Disaster Management), Rajiv Bhawan, Bhubaneswar shall not be liable for any delay in receipt of the Bid by the agencies and no extension of time to the date of quotation opening shall be given for this reason.
6. The Agency/Bidder failing to submit all the specified documents shall be summarily rejected.

**20. GENERAL CONDITIONS:**

- a) No advance payment in any mode will be allowed in favour of the agency/consultancy firm for any work during the contract period.
- b) Payment of the contract amount for consultancy work will be payable to the Firm/Agency only after submission of the deliverables stated at

paragraph 4 and acceptance of the same by the High Level Committee constituted by the State Government for the purpose.

**21. NOTICE AND COMMUNICATION:**

- a) The Agency is required to state his/her correct full address in the document. All notices, communications to any agency by the Special Relief Commissioner, Odisha shall be deemed to have been sent or served if delivered or left at or posted to the agency and shall be deemed to have been so performed on the day on which they were so delivered or left.
- b) All notice and communications addressed by the Special Relief Commissioner, Odisha to the Agency, or by the Agency to the Special Relief Commissioner, Odisha concerning the work to be executed under the contract shall be in writing.

**22. Ceiling limit of the assignment**

The Ceiling limit for the assignment is Rs. 1, 00, 00,000/- (Rupees one crore only)

The Special Relief Commissioner reserves the right to reject any or all the bids received without assigning any reason thereof and the agency shall not be entitled to get any costs, charges or expenses incidental to or connected with preparation and submission of his bid documents.

Special Relief Commissioner &  
Commissioner-cum-Secretary (Disaster Management),  
Revenue & Disaster Management Department