

**NEW & RENEWABLE ENERGY DEVELOPMENT CORPORATION OF  
ANDHRA PRADESH LTD  
(A State Govt. Company)**

**INVITES EXPRESSION OF INTEREST**

**FOR GEOTECHNICAL INVESTIGATION (CORE DRILLING)**

**FOR**

**PROPOSED 800 MW OWK**

**PUMPED STORAGE HYDRO ELECTRIC PROJECT**



**EoI No: NREDCAP/WE/PSP-I/OWK/GEO-TECH/Tender/2023, Date: 18.01.2023**

**CONDITIONS OF CONTRACT, SPECIFICATIONS  
AND SCHEDULES**

## **DISCLAIMER**

This request for EoI contains brief information about the Project, Qualification Requirements and the Selection process for the successful proponent.

This document is not an agreement and is not an offer or invitation by NREDCAP to any parties. The purpose of this document is to provide the proponent with information to assist the formulation of their proposals. This document does not purport to contain all the information each proponent may require. This document may not be appropriate for all reasons, and it is not possible for the NREDCAP Representatives, their employees or advisors to consider the investment objectives, financial situation and particular needs of each proponent who reads or uses this document. Each proponent should conduct its own investigations and analysis and should check the accuracy, reliability and completeness of the information in this document and wherever necessary obtain independent advice from appropriate sources. The NREDCAP, their employees and advisors make no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of the document.

The NREDCAP representatives may in their absolute discretion, but without being under any obligation to do so, update, amend or supplement the information in this document.

NREDCAP reserves the right to accept or reject any or all EoIs without giving any reasons thereof. NREDCAP will not entertain any claim for expenses in relation to the preparation of EoI submissions

The contents of this EoI are only for general information or use. They do not constitute advice and should not be relied upon in making (or refraining from making) decision. VC & MD/ NREDCAP, NREDCAP hereby excludes any warranty, express or implied, as to quality, accuracy, timeliness, completeness, performance, of the EoI or any of its contents. VC & MD/ NREDCAP on behalf of NREDCAP shall not be liable for any damages (including, without limitation, damages for loss of profits) arising in contract, tort or otherwise from the use of or inability to use the EoI, or any of its contents, or from any action taken (or refrained from being taken) as a result of using the EoI or any of its contents.

**INFORMATION PERTAINING TO BID SUBMISSION VIA**  
**E-PROCUREMENT PLATFORM**

The Bidder shall submit response to the tender on e-Procurement platform at <https://tender.apecurement.gov.in> by following the procedure given below.

The Bidder would be required to register on the e-procurement marketplace <https://tender.apecurement.gov.in> and submit their Bids online. Online submission of Bids is mandatory and Offline Bids shall not be entertained by the Tender Inviting Authority.

The Bidders shall submit their eligibility and qualification details, Bid Processing Fee and EMD (Pre-qualification), Technical Bid, Financial Bid etc., in the online standard formats displayed in e-Procurement web site. The Bidders shall upload the scanned copies of all the relevant certificates, documents etc., in support of their eligibility criteria/Technical Bid/Bid Processing Fee/EMD and other certificate/documents in the e-Procurement web site. The Bidder shall sign on the statements, documents, certificates, uploaded by him, owning responsibility for their correctness/authenticity. The Bidder shall attach all the required documents specific to the RFP after uploading the same during the Bid submission as per Bid Documents.

**1. Registration with e-Procurement platform:**

For registration and online Bid submission Bidders may contact HELP DESK of Vupadhi Techno Services

**M/s. Vupadhi Techno Services Pvt. Ltd**

Flat No:407, 4<sup>th</sup> Floor, Sreeram'sSneha Avenue,

Near Aravinda School, Kunchanpalli,

Tadepalli Mandal, Guntur district-522501.

Phone: 08645-243670/71/72/73/74

**Email id: [contact@vupadhi.com](mailto:contact@vupadhi.com)**

<https://tender.apecurement.gov.in>.

## **2. Digital Certificate authentication:**

The Bidder shall authenticate the Bid with Digital Certificate for submitting the Bid electronically on eProcurement platform. The Bids not authenticated by Digital Certificate of the Bidder will not be accepted.

For obtaining Digital Signature Certificate, you may please Contact:

Andhra Pradesh Technology Services Limited,  
Plot No. 302, 3rd Floor, Banukrishna Nilayam, Ashoka Nagar,  
Velanki RammohanRao street, Vijayawada  
Mob: 9963029443

## **3. Hard copies:**

- i. Bidders shall submit hard copies of the Bid as specified in the tender document.
- ii. All the Bidders shall invariably upload the scanned copies of DD/BG/PO/RTGS particulars in eProcurement system and this will be one of the key requirements to consider the Bid responsive.

## **4. Deactivation of Bidders:**

If any Successful Bidder fails to submit the original hard copies of uploaded certificates/documents, within stipulated time or if any variation is noticed between the uploaded documents and the hard copies submitted by the Bidder, as the successful Bidder will be barred from participating in the tenders on eProcurement platform for a period of 3 years. The eProcurement system would deactivate the user ID of such defaulting Bidder based on the trigger/recommendation by the Authorised Representative in the system. Besides this, the Authorised Representative shall invoke all processes of law including criminal prosecution of such defaulting Bidder as an act of extreme deterrence to avoid delays in the Bid Process for execution of the development schemes taken up by the government. Other conditions as per the Tender are applicable.

## **5. Payment of Transaction Fee:**

It is mandatory for all the participant Bidders to electronically pay a Non-refundable Transaction

fee to MD, APTS as per the relevant GoAP guidelines in regard to e-Procurement fund to be administered by APTS limited, the service provider through "Payment Gateway Service on e-Procurement platform". The Electronic Payment Gateway accepts all Master and Visa Credit Cards issued by any bank and Direct Debit facility/Net Banking of ICICI Bank, HDFC, Axis Bank to facilitate the transaction. GST is applicable for Transaction on the transaction amount payable to MD APTS.

## 6. Nodal Person for enquiries and clarifications

All correspondence, clarifications in respect of the Bid document and submission of the Bid shall be addressed to:

Designation:	VC & Managing Director, NREDCAP
Address:	12-464/5/1, River Oaks Apartment, CSR Kalyana Mandapam road, Tadepalli, Guntur District
Telephone:	0863 -2347650 /651/652/653
E-mail id:	<a href="mailto:vc@nredcap.in">vc@nredcap.in</a> ; <a href="mailto:info@nredcap.in">info@nredcap.in</a> ; <a href="mailto:we@nredcap.in">we@nredcap.in</a> ; <a href="mailto:pdwe@nredcap.in">pdwe@nredcap.in</a>

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<b>SECTION-1: E-TENDER NOTICE</b>
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**Expression of Interest (EoI) are invited from experienced Consultant / Agencies/  
Firms executing similar nature of works:**

Name of work	Invitation of Expression of Interest (EoI) for Geotechnical Investigation (Core Drilling) for 800 MW Owk Pumped Storage Project at OWK in Nandyal District, Andhra Pradesh.
Earnest Money Deposit (EMD)	Rs. 2 Lakhs by way of Demand Draft or Bank Guarantee in favour of NREDCAP, payable at Tadepalli. In case of BG, the validity shall be upto 31.03.2023. Exemption in EMD by Micro and Small Enterprises (MSEs) as defined in MSE procurement policy issued by Department of MSME. The bidders exempted from EMD have to submit Bid Security Declaration as per Form-1 (Anneuxre-4).
Tender document fee (non-refundable)	Rs. 25,000 + 18% GST by way of DD drawn in favour of NREDCAP, payable at Tadepalli.
Transaction fee	Rs. 5,000 + 18% GST payable to MD, APTS
Date of publishing proposal Notice	20.01.2023
Estimated Contract Value (ECV)	Rs. 70,00,000/-
Tender documents	Can be downloaded from the website from 12:00 hrs on 20.01.2023 up to 12:00 hrs. on 03.02.2023.
Last Date & Time of online Submission of Proposal document	Before 17:00 hrs. on 03.02.2023.
Pre-bid meeting	NA
End Date for submission of Hard copies	Before 15:00hrs. 06.02.2023
Opening of technical proposal	At 15:30 hrs. 06.02.2023
Opening of price proposal	At 11:00 hrs. on 08.02.2023
Nature of Contract	Item wise contract price
Proposal Validity	90 Days
Completion period	Forty-Five (45) Days from date of acceptance of LoA.



Proposal opening place	Office of VC&MD, NREDCAP, Tadepalli, Guntur District.
Designation, Address, Phone/email of the tender inviting authority	VC & Managing Director, NREDCAP, # 12-464/5/1, River Oaks Apartment, CSR Kalyana Mandapam Road, Tadepalli, Guntur District-522501, Phones: 0863-2347650/ 51/ 52/ 53 Email: <a href="mailto:vc@nredcap.in">vc@nredcap.in</a> ; <a href="mailto:we@nredcap.in">we@nredcap.in</a>

Intending proponents should submit their proposals only online mode on or before the time and date specified in the Notice Inviting Tender.

The proposal shall be opened online at the office of the VC &MD, NREDCAP, Tadepalli on the date and time mentioned above in the presence of the proponents / their representatives who wish to attend. All other existing conditions related to the tenders of NREDCAP will be applicable to this tender also. The tender details will also be available in the website.

If any of the dates mentioned above happens to be a holiday, the actual dates for the same will be the next working day. No separate intimation in this regard will be issued.

The bidding authority reserves the right to modify /cancel any or all proposals without assigning any reasons. NREDCAP will not be responsible for any errors like missing of schedule data while downloading by the proponent/ non receipt of document / delay if any.

All proponents participating in the tender should have a valid Digital Signature Certificate from an approved Certifying Authority. More details about the e-tendering procedure will be available in Section-II.

## SECTION 2: INSTRUCTIONS TO BIDDERS

### 2.1 DETAILED PROCEDURE FOR SUBMISSION OF THE BID ONLINE:

The Bidder shall submit his response through Bid submission to the tender on e-Procurement platform at <https://tender.apecurement.gov.in> by following the procedure.

The Bidder would be required to register on the e-procurement marketplace <https://tender.apecurement.gov.in> and submit their Bids online. Offline Bids shall not be entertained by the Tender Inviting Authority for the tenders published in e-Procurement platform.

The Bidders shall submit their eligibility and qualification details, EMD, Technical Bid, Financial Bid etc., in the online standard formats displayed in e-Procurement web site. The Bidders shall upload the scanned copies of all the relevant certificates, documents etc., in support of their eligibility criteria/Technical Bid/ EMD and other certificate/documents in the e-Procurement web site.

The Bidder shall sign on the statements, documents, certificates, uploaded by him, owning responsibility for their correctness/authenticity.

The Bidder shall upload the entire required documents specific to the Bid document in the e-tender platform duly signing each and every document.

The bidder shall invariably submit the hard copies of the Technical bid to the Authorized Representative either personally or through courier or post before the timelines as indicated in this tender document. Non-submission of Technical bid along with relevant documents shall lead to rejection of tender.

#### **1. Hard Copies:**

**Bidders shall submit hard copies of EMD and Bid Processing fee to the address mentioned in the respective clause of this Bid document before tender dead line.**

Bidders shall also upload scanned copies of these documents (DD/PO towards processing fee and EMD) as a part of the Qualification criteria of bid on the e-Procurement platform.

All the Bidders shall invariably upload the scanned copies of DD/ BG/ PO in e-Procurement system and this will be one of the key requirements to consider the bid responsive.

The Authorized Representative will not take any responsibility for any delay in receipt/non-receipt of original, Certificates/Documents from the successful Bidder before the stipulated time. On receipt of documents, the department shall ensure the genuinity of certificates/documents uploaded by the Bidder in e-Procurement system, in support of the qualification criteria.

### **Uploading:**

1. Financial Bid shall be uploaded at the commercial stage available on the e-Procurement platform which has an encryption facility.
2. The Bidder SHALL AVOID zipping two versions of the same Financial Bid into a single folder.
3. In case the Authorized Representative finds multiple versions of the same Financial Bid in a single zip folder, such Bids are liable for rejection by the Authorized Representative.

## **2.2 DETAILS OF THE LOCATION OF THE PROPOSED PROJECT**

NREDCAP has carried out preliminary studies and Feasibility Report for establishment of a 800 MW Pumped Storage Hydro Electric Project near Owk village and mandal, Nandyal District. Geological plan has been approved by GSI for carrying out Geo-Technical Investigations (Core Drilling). M/s. WAPCOS Ltd. is engaged as a consultant for preparation of Detailed Project Report. The entire Geo-Technical Investigations shall be carried out under the supervision of M/s. WAPCOS Ltd. and NREDCAP.

The prospective bidder may utilize the information for making detailed proposal for conducting Geo-technical investigation under the supervision of M/s. WAPCOS Ltd. as per the requirement of GSI, Govt. of India.

## **2.3 GENERAL CONDITIONS**

### **2.3.1 STANDARD TERMS AND CONDITIONS**

This EoI is subject to the Terms and Conditions mentioned herein.

### **2.3.2 MANDATORY REQUIREMENTS**

This EoI contains mandatory requirements as listed in tender document. Proposals not meeting all mandatory requirements will be rejected.

### **2.3.3 RIGHT TO AMEND CONDITIONS**

The NREDCAP reserves the right to amend or supplement the EoI, by way of addendum issued on the same e-platform, where the tender is published. All proponents are requested to verify the e-platform from time to time. NREDCAP has no obligation to communicate to any proponent directly. The NREDCAP will notify any changes made to the EoI or to any appendices or any change in the closing date or time through web site. When these changes occur within five (5) working days of the closing date of the proposal, the EoI closing date may be extended to allow for a suitable number of days for preparation of the proposals by the proponents.

### **2.3.4 EOI INFORMATION**

Material, information and data accessed or provided by the NREDCAP and used in the preparation of the proposals is confidential and the property of the NREDCAP.

### **2.3.5 CHANGES TO PROPOSAL WORDING**

Proponents will not be allowed to amend their proposal after submission. However, NREDCAP reserves the right to seek clarification on a submitted proposal.

### **2.3.6 PROPONENT INCURRED COSTS**

All costs incurred in the preparation and presentation of the proposals shall be wholly absorbed by the Proponent.

### **2.3.7 INDEMNITY, INSURANCE AND LIABILITY REQUIREMENTS**

The Proponent will indemnify and save harmless the NREDCAP from and against any claims, demands, losses, damages, costs and expenses made or incurred, suffered or sustained by the NREDCAP at any time or times (either before or after the expiration or on termination) where the same or any of them are based upon or arise out of or from anything done or omitted to be done by

the Proponent or by any servant, employee, officer, of the proponent.

The consultant shall indemnify and hold harmless the NREDCAP, their employees, from any and all claims, demands, actions and costs whatsoever for which the Consultant is legally liable that may arise, directly or indirectly out of any negligent act or omission of the Consultant, Sub-consultants, or their employees or agents, in the performance by the consultant of the work identified in the proposal.

The Consultant shall at their cost maintain insurance and pay assessments as will protect the Consultant and NREDCAP from any claims and from any other claims for bodily injury, personal injury or property damage which may arise from operations resulting from contract entered into.

During the course of the work, the Consultant must carry a minimum level of Professional Liability, insuring liability for errors and omissions in the performance of professional services.

The Consultant shall be liable to pay workmen compensation, if necessitated and other liabilities due to the labour engaged for this work. All labour engaged by the Consultant shall be insured and NREDCAP has no responsibility/ liability in case of any accidents during the execution of works.

Consultant must obtain an insurance coverage in respect of the workmen engaged by him from a nationalized Insurance company to cover the compensation payable in case of fatal & non-fatal accident if any occurred to workmen.

The insurance coverage obtained as per above shall be sufficient enough to cover all the expenses payable on behalf of the fatal / non-fatal accident victims including hospital expenses, HMC, funeral benefit, compensation (death and disablement total and partial) and other financial benefits payable as per Employee's Compensation Act.

Any liability on the difference in compensation amount payable before the Commissioner for Workmen's Compensation (Deputy Labour Commissioner) or to victim beyond the insurance claim amount sanctioned by the insurance company rests with the Consultant who has engaged the victim.

The Consultant shall at their cost maintain Automobile Liability Insurance insuring all licensed vehicles owned, leased or operated by the Consultant.

### **2.3.8 NEWS RELEASES**

Proponent shall not make news releases concerning EoI or the awarding of the contract without the written consent of the VC& MD, NREDCAP.

### **2.3.9 CONFIDENTIALITY AND SECURITY**

This document, or any portion thereof, may not be used for any purpose other than the submission of proposals.

The Proponent must agree to maintain security standards consistent with policies of Government of Andhra Pradesh and NREDCAP. These include strict control of access to data and maintaining confidentiality of information gained while carrying out their duties as per the contract.

Information pertaining to any department obtained by the proponent as a result of participation in this project is confidential and must not be disclosed without written authorization from the NREDCAP.

### **2.3.10 CONFLICT OF INTEREST**

Proponents are not eligible to submit a proposal, if current or past corporate or other interests may in the opinion of the NREDCAP, may give rise to a conflict of interest in connection with this project. The NREDCAP may request full disclosure from each Consultant with regard to the employees and sub consultants they are working on the project, including where they live and any possible interest, they may have in any of the matters being assessed.

### **2.3.11 LIABILITY FOR ERRORS**

Considerable efforts to ensure the accuracy of the information in this EoI have been made. The information contained in this EoI is supplied solely as a guideline to Proponents. The information is neither guaranteed for accuracy, nor is it necessarily comprehensive or exhaustive.

### **2.3.12 ACCEPTANCE OF TERMS AND CONDITIONS**

Unless otherwise stated by the Proponent, all terms and conditions of this EoI document are deemed to have been accepted and accordingly considered in the Proponent's submission of proposal.

### **2.3.13 REPLACEMENT OF PERSONNEL**

The proposals will be evaluated for the employees and the sub - consultants as presented by the Proponents. The consultant will be required to provide the services of the proposed team. If at any time it is impossible to do so, for reasons beyond the control of the Consultant, the Consultant shall notify the NREDCAP in writing. The Consultant must provide the reason for the removal of an individual from the project team and the names and resumes of the proposed replacements for evaluation by NREDCAP.

### **2.3.14 COMPLIANCE WITH LAWS**

The Consultant shall ensure all notices are given and all the licenses and permits are obtained, to perform the work. The Consultant shall comply with all the laws applicable to the work or the performance of the contract.

### **2.3.15 ACCEPTANCE OF PROPOSALS**

The NREDCAP is not bound to accept a proposal with the lowest price or any proposal of those submitted. Proposals will be assessed in light of the evaluation criteria.

Subsequent to the submission of the Proposals and the Proponent interviews (if needed), negotiations may be conducted with one or more of the Proponents, but there shall be no obligation to receive further information, whether in writing or oral, from any of the Proponents. The NREDCAP shall not be obligated in any manner to any Proponent whatsoever until a written agreement has been duly executed relating to an accepted proposal.

### **2.3.16 VALIDITY PERIOD**

Proposals must be open for acceptance for at least **Ninety (90)** days after the closing date. Upon acceptance, prices will be firm for the entire contract period unless otherwise specified.

### **2.3.17 EVALUATION OF PROPOSALS**

NREDCAP will evaluate all acceptable proposals. NREDCAP reserves the right to select the Consultant based on the evaluation criteria as fixed in these EoI documents.

### **2.3.18 FINANCIAL INFORMATION**

Proponents may be requested to demonstrate their financial stability during the evaluation process. This may include providing evidence of sufficient financial strength and capacity to undertake a project of this size and type.

### **2.3.19 ADDITIONAL INFORMATION**

Proposals may contain supporting information. If supporting information is offered, submit the same as an appendix to the proposal.

### **2.3.20 NEGOTIATION DELAY**

If an agreement cannot be negotiated / executed within **Thirty (30)** days of notification to the selected consultant, the NREDCAP may, at any time thereafter, terminate negotiations with the selected consultant and reserves the right to negotiate a contract with another Proponent of its choice or choose to terminate the entire EoI process.

### **2.3.21 PROPOSALS SELECTION**

Once a decision has been made, the NREDCAP will notify the successful Proponent. The office of VC& MD will treat all proposals with strict confidentiality and any information on proposals will not be divulged except where required. An agreement in non-judicial stamp paper of appropriate value will have to be executed with NREDCAP, once final acceptance of the proposal is determined and work order is issued. The stamp paper should be brought in favour of the selected consultant and should have been procured only after the date of issuance of work order.

### **2.3.22 DEBRIEFING**

Unsuccessful Proponents may request a debriefing meeting with the officers of NREDCAP and other authorized officers. However, the decision of VC& MD regarding consideration of the request will be final and binding on all parties.

### **2.3.23 CONTRACT FOR SERVICES**

Written notice of acceptance of a proposal by NREDCAP and the subsequent full execution of the agreement will constitute a contract for the services. No Proponent will acquire any legal or equitable right or privileges relative to the services until the occurrence of both events.



### **2.3.24 CONTRACT CANCELLATION**

The contract may be cancelled as determined by NREDCAP including, but not limited to, the following reasons. If the Consultant:

- Defaults in the observance of any of the conditions contained in the contract or specification;
- Has become insolvent; and/or
- Has committed an act of bankruptcy,
- Assigns the work of this contract to another consultant without written consent of the NREDCAP.

### **2.3.25 DEFAULT**

If during the period of the contract the Consultant is in default of any provision of the contract, and the default continues for a period of **thirty (30)** days after notice by NREDCAP to the Consultant specifying the nature of the default and requiring the default to be remedied, NREDCAP may terminate this contract immediately without further notice to the Consultant.

### **2.3.26 LIQUIDATED DAMAGES FOR DELAY IN COMPLETION**

For any delay attributable to the consultant, beyond the scheduled/period of completion of various activities as per relevant clauses in the work order, a penalty worked out at the rate of 1% (one percent) on an amount of uncompleted activities of the contract value, for each calendar month of delay or part thereof will be levied. However total liability of the consultant under this clause shall not exceed 10% (ten percent) of the total contract value.

### **2.3.27 DISPUTE RESOLUTION**

All matters in dispute under the contract developed from this EoI with NREDCAP may be submitted to VC& MD and the decision of VC& MD will be final.

### **2.3.28 LAWS GOVERNING**

Unless otherwise specified, all orders implemented by NREDCAP shall govern the contracts developed from this EoI.

### **2.43.29 OTHERCONDITIONS**

1. The proponent shall be responsible for maintaining good order on the work site and shall

employ such officers, security or persons as may be required. Unauthorized persons may be excluded from the work site. The Consultant should ensure that the works and peaceful atmosphere in the above place is not disturbed due to the works carried out at site.

2. The Consultant will have to make his own arrangements for the accommodation of his staff and workers and providing basic minimum amenities to them.
3. In case of any disputes, the jurisdiction of court shall be within AP State only.

### **SECTION 3: SUBMISSION OF PROPOSALS**

#### **3.1. INTRODUCTION**

Tenders/proposals shall be accepted only through online mode in the A.P e-Procurement platform at <https://tender.apecurement.gov.in> by following the procedure and no manual submission shall be entertained.

The proponents are advised to carefully examine all instructions, conditions, terms, specifications, drawings if any etc. in the proposal documents and details regarding the facilities at work site, approaches, climate etc. The proponents are advised to visit the site, before submitting the proposal documents. In case of any doubt or issue, the proponent may collect whatever information required from the bidding authority.

The rates shall be quoted after precisely considering all aspects that may be encountered during execution of the work. The quoted rates shall be on the proponents' risk and remain firm during the period of contract. The Proponent is not entitled for any claim other than that agreed to in the contract.

Intending proponents should submit their proposals only through online mode on or before the time and date specified in the Notice Inviting Tender.

#### **3.2. SUBMISSION**

The proposal including all uploaded documents shall be digitally signed by the proponent / duly authorized representative of the company. Proponent is responsible for ensuring the validity of digital signature and its proper usage by their employee.

The Proponent shall sign the Proposals wherever required. If the proponent is a Joint Venture

Undertaking, all the parties need not sign, provided that a joint venture agreement and power of attorney for the person to sign is submitted along with the Proposal.

Proposal by a Partnership Firm shall contain the full name of all partners. Proposal shall be signed in the name of the Partnership Firm by one of the members of the partnership authorized for the purpose or by an authorized representative followed by the name and designation of the person signing.

Proposals by Corporations shall be signed with the legal name of the Corporation followed by the name, signature and designation of the President, Secretary or other person authorized to bind it in the matter.

The copy of the constitution of Firm/Partnership with the name of partners duly attested by a notary public and the instrument authorizing the persons to sign on behalf of the Firm shall be furnished online with digitally signed attestation.

All the proposals shall be submitted in single cover in electronic format. Proposals shall be accepted only through online mode in e-procurement platform at <https://tender.apeprocurement.gov.in> by [following the procedure](#) and no manual submission shall be entertained.

### **Cover No.1**

This cover shall contain

- i. Scanned copy of certificates in proof of experience and any other documents specified an attested copy of PAN /TAN card of the Authorized Signatory / Firm shall be uploaded.
- ii. Scanned Signed copy of downloaded Conditions of Contract, Specifications and Schedule (this tender document including Annexures).

### **Cover No.2**

Quoted Price bid (BOQ)

Proposal must be submitted before closing date and time. The proponent is advised to submit earlier to the due date and time to avoid last minute hitches.

The proponents shall note that the bid documents other than the mode specified will not be accepted and summarily rejected without notice.

Proposal shall acknowledge any addenda, which have been issued. It is the responsibility of the Proponent to determine if there were any addenda. The Proponent shall not change the wording of his proposal once submitted.

## **SECTION 4: QUESTIONS AND INQUIRIES**

All enquiries related to this EoI are to be made in writing to the VC& MD, NREDCAP, before the pre-bid closing date.

Responses to enquiries made to the VC& MD, NREDCAP will be made in writing; therefore the Proponent must include a contact name, a mailing address and E-mail address on all correspondence.

All enquiries and responses thereon will be made available to all Proponents one week before the closing date through e-tender platform. Therefore, further questions made after the day prescribed will not be entertained.

All other information obtained from alternate sources will not be considered official and / or accurate.

## **SECTION 5: SERVICES REQUIRED BY NREDCAP**

### **5.1. BACKGROUND**

NREDCAP is the nodal agency for development of renewable power in the state of Andhra Pradesh. The installed capacity of solar and wind power in the state is about 8355 MW by the end of December, 2022. The state is also contemplating development of huge extent of wind and solar power projects. Thus, because of the state's thrust and importance on development of renewable energy, the state may experience higher capacity additions in the next few years.

In order to utilize the surplus wind and solar energy during daytime effectively for meeting the energy requirement during peak hours and also to utilize these schemes for grid balancing, NREDCAP has identified some of the potential areas for development of pumped storage hydroelectric plants. NREDCAP is already preparing DPRs for 6,600 MW PSP projects in first phase and 3,650 MW in the second phase. NREDCAP is contemplating to prepare more DPRs taking into consideration good potential existing in the state to set up PSP Projects.

The current 800 MW Owk PSP is a part of projects identified by NREDCAP under first phase. NREDCAP has prepared and submitted Feasibility Report (FR) for the project to different directorates of CEA, CWC, GSI and CSRMS. Comments for these directors were received and replies are being furnished. NREDCAP have obtained approval from GSI to carryout Geo-Technical Investigations, hence it is proposed to identify the agency to carryout Geo-technical Investigations (Core Drilling) (about 11 Nos. of Drill Hole of total length of around 1000 m) at various locations of Pumped Storage Project at Owk for Geological Investigations including mobilization of all equipment & manpower and all incidental items whether of a temporary or permanent nature for successful completion of the work in coordination with M/s. WAPCOS Ltd. who is appointed as consultant for preparation of Detailed Project Report for 800 MW Owk PSP Project.

It will be in the best interest of the State, the NREDCAP invites EoI from reputed registered Firms/Companies/Agencies having Experience, for providing Geo-Technical Investigations as per the requirement of GSI, Govt. of India and under supervision of M/s. WAPCOS Ltd. thereby leading to the implementation of the Pumped Storage scheme at 800 MW Owk PSP Project.

The requirements are broadly as follows:

## **5.2. OBJECTIVE**

Geological investigations proposed to be conducted at various locations of Pumped Storage Project at Owk to study and understand the geological features along this area and its influence on the location of the project components. Moreover, the Pressure Shaft comes under high ground cover which is required to be investigated through deep drill holes with Max depth of about 202 meters. Therefore, special equipment i.e. deep drill hole machine is required at project site to completed the job in totality. These machines should be transfer on head load as per the project requirements.

These investigations will help in designs for construction of project components which shall have a long-term bearing on the construction and operation of these components. For this purpose, the investigation shall aim at determining the following:

- Geological settings of the project area and its vicinity.
- Geological conditions related to the project.
- Characteristics of foundation.
- materials and their properties.

- Geotechnical design parameters for the project components.
- Depth to bed rock or thickness of overburden and weathering limits.
- Types of lithological units present in the foundation.
- Characteristics of significant geological and structural features such as bedding/foliation, joints, fissures, folds, faults, shear zones, dykes, cavities and their influence on structural stability of the foundation.
- Permeability of the strata.
- Depth of water table.
- Slope Stability.

### 5.3. SCOPE OFWORK

To attain the objectives, the investigations listed below shall be performed in the project area,

- About 13 Nos. Drill Hole are to be explored (Core drilling) in rock including overburden using hydraulic feed rotary drill and double/triple tube core barrel with DIAMOND CORE bit including collection of core samples, maintaining continuous record of core recovery / RQD, keeping the cores in wooden core boxes, transporting to laboratory, providing cap on top on completion of the same, all complete as per the BIS specification and instructions of the Engineer- in Charge.
- The above investigations shall be carried out in all the drill holes as indicated in the details of investigations envisaged in each hole as detailed in subsequent sections.

*Site specific challenges shall be addressed properly and taken into consideration during submission of the Technical & Financial Bids.*

#### **Sub-surface investigations**

Subsurface investigations shall be carried out to gain geological and geotechnical information below the natural ground level and river-bed levels in the designated project areas. These investigations shall be conducted using surface invasive techniques, principal among which are the following:

- Rotary core drilling
- In-situ Permeability testing

### 5.3.1. ROTATORY CORE DRILLING

The test procedures shall be carried out in accordance with the specified international standard (e.g., ASTM Standard, British Standard and International Society of Rock Mechanics (ISRM) Suggested Methods, Indian Standards). The proposed alternative standard from consultant shall be formally submitted to the Client for approval. The full testing and reporting procedure (including forms) shall be included in the submission. Approximate size of casing outer diameter/inner diameter for various sizes is as under given in table below:

Size of Casings	
Type of Casing	Casing Tube OD/ID (mm)
P	139.7/127
H	114.3/101.6
N	89.1/76.4
B	73.2/60.5

While driving through overburden, initially higher size (diameter) such as “P” series casing with required shoes is used followed by “H” series casing. Generally rock drilling is started in “P” series and best cores obtained are also of “N” series. However, in case of very deep holes, “B” & “A” series accessories have to be used. Skill of drilling crew is also of paramount importance and as per circumstances with respect to depth and formation such as kind of overburden or kind of rock etc. the use of proper (surface set or impregnated) bits, correct speed of rotation, bit pressure and feed pump pressure and discharge are to be regulated to obtain optimum output.

### 5.3.2. WORK PLAN

The Contractor shall submit to the NREDCAP appointed representative, their work plan which shall be approved before the commencement of the work along with the timelines and the targets of the different works. The Contractor shall provide and keep an updated work plan giving details on how the various parts of the work are planned, together with a detailed time schedule.

### 5.3.3. CORE DRILLING

Rotary core drilling in soils /overburden shall be done with at least a core diameter of  $D > 80$  mm. Triple and Double tube core barrels can be used, however triple tube core barrels shall be used to

obtain the best possible core recovery. Drilling in solid rock may be carried out with a core diameter of  $D > 56$  mm using Triple/double tube core barrels. The Contractor shall carefully review the time required for moving the rigs between boreholes, in-situ testing in boreholes, make allowances for equipment maintenance, breakdowns, spare parts and any other factors that could delay progress and agree with the Client for the number and type of rigs to be mobilized to achieve the time schedule.

Unless otherwise instructed all casing shall be removed on completion of the borehole. All completed boreholes shall be capped with concrete monument cast into the ground. The boreholes with standpipes shall have a lockable cap to allow access to the standpipe. The borehole number will be marked on the concrete.

During drilling any loss of water, change in water colour, rate of drilling and sudden drop of the core barrel needs to be accurately noted and recorded in the log for better understanding of the sub-surface conditions.

A drilling methodology has been suggested which shall be followed to achieve optimum core recovery.

#### **5.3.4. WATER USE**

The Contractor shall not advance the drilling in a soil or overburden by adding water except in the case of dry granular soils. For conditions where the addition of water is permitted, the Contractor shall use the minimum amount of water necessary for advancing the drilling. Where borings reveal soft alluvial soils or where sub-artesian groundwater loosens granular soils, the Contractor may be required to add and maintain a head of water during drilling, sampling, and testing in order to avoid disturbance caused by the removal of the overburden.

The water used for drilling and testing shall be free from suspended clay and other deleterious materials. Settling tanks shall be provided to improve the natural water quality if required by the Water tightness of the bed rock is determined by conducting water pressure tests and assessment of where and how much leakage could occur. These tests are usually conducted at pressures equal or slightly more to the head expected to be encountered.

The equipment for pressure testing consists of a pump capable of delivering the specified maximum pressure, a water meter to measure in litres, hoses and valves to permit the measured water flow to be directed in the hole or bypassed and to permit retaining the water in the hole under specified pressure, an accurate pressure gauge of adequate capacity, two approved packers for isolating any



specified section of the hole and an adequate supply of clean water. The ground water tables shall be recorded daily.

### **5.3.5. CORE RECOVERY**

During Exploratory core drilling maximum core recovery shall be attempted. Presence of weak and weathered seams, faults, shear zones, clay layers etc. is obtained. Rotary core drilling shall produce circular cores of specified diameter throughout the core length. The type of drill bit, drilling rates and management of the drill shall be in a way that 100% core recovery can be obtained in any drill run, where the condition of the soil/rock permits.

Core recovery less than 90% in any drill run will not generally be acceptable for payment, unless this is satisfied that 90% recovery is impracticable under the prevailing conditions. If in the opinion of the, 90% recovery can be achieved, the Contractor, after consultation with the engineer, shall take measures to improve the core recovery. These measures shall be at the Contractor's expense, unless it is demonstrated to the Engineer's satisfaction that the core recovery cannot be improved. When any recovery is less than 90% for full length of core run longer than 1m, then the next run should be reduced to 1m or less.

### **5.3.6. LENGTH OF CORE RUN**

The first core run in each hole shall not exceed 1 m in length. Subsequent drill runs shall not normally exceed 3 m in length and the core barrel shall be removed from the drill hole as often as is required to obtain the best possible core recovery.

In the highly weathered zone, dry drilling shall be carried out with the core length not exceeding 50cm.

### **5.3.7. CORE EXTRACTION**

The core shall be carefully extracted from the core barrel using a method that does not damage the core. Hammering or banging the core barrel on the ground shall not be permitted. The core will be placed in core boxes immediately after extraction in the correct sequence. Soil, weathered rock, highly fractured rock and sludge will be extracted into half round PVC pipe and sealed in plastic sleeves or cling wrap to permit handling and preserve moisture.

The core losses shall be marked in the correct position (not at the end of the run) with a red block of the same length as the core loss. The block shall be marked "core loss" and the core loss depth

interval given. Where samples are taken from the core box they will be replaced with a yellow block of the same length as the sample. The block shall be marked "sample" and the sample depth interval given. All block markings should be legible on the core photographs. Unpainted blocks shall be used to prevent core moving within partly filled core box. Proper direction of the core run shall be marked on the core box divider walls.

### **5.3.8 CORE BOXES AND STORAGE**

The core boxes shall be of robust construction with a lockable lid (to prevent core disturbance/loss during transportation) and partitions spaced to suit the different core sizes. Handles shall be provided on both long sides to assist transportation of the boxes.

The inside of the lid of the box shall be clearly and indelibly marked with the project name, location, borehole number, box number and core depth interval. Core boxes shall be kept off the ground and dry while at the drill site. Full core boxes shall be stored in a weather proof temporary core shed at a secure location close to the site. The core shed shall be provided by the Contractor. An undercover area shall be provided at the temporary core store of sufficient size to allow at least 10 boxes to be laid out at a time. The area shall be adequately lit and waist high working surfaces/ supports shall be provided for logging purposes.

The NREDCAP shall identify a long term storage facility for the cores. The Contractor shall deliver the cores from the temporary store to the long term storage facility when instructed by the NREDCAP.

Core shall be dampened to highlight the natural colour and fabric of the core. Any wrapped core shall be unwrapped for the photo and rewrapped afterwards.

Strong shadows on the core shall be avoided (flash shall not be used). The markings on the blocks shall be readable on the photographs. The photographs shall be in sharp focus and of true color. The photographs shall be submitted to the WAPCOS/NREDCAP for the approval. Any photos that do not satisfy the above requirements shall be re-photographed until satisfactory.

### **5.3.9 DAILY DRILLING RECORDS AND CORE LOGS**

Daily drilling reports shall be prepared by the Contractor and maintained at site in a proper register. The daily progress report register should be at the disposal of the representative of NREDCAP on his demand. Since the reports may be partly contractual in nature their draft content shall be

subjected to approval by the NREDCAP. The proposed report form shall be submitted to NREDCAP for review and comment on its technical content, before approval is given.

It is emphasized that the report should include any information that may be relevant to the interpretation of the geological or ground water conditions and the logging of the core. In addition to the groundwater items noted, the report should record such matters as the depths and reasons for core losses, Hole instability, cavities, unusually hard or soft layers, change in the colour of return water, sudden change in the speed of rotation of drilling and any drilling difficulties associated with the geological conditions.

The interpretation and projection of the likely influences of the discontinuity parameters observed in the cores to its neighbourhood shall be clearly reflected in the report.

### **5.3.10 SUGGESTED METHODOLOGY OF DRILLING**

The rocks at the site are sandstone, soft coal and shale. More than 90% core recovery in each run is required for realistic interpretation of subsurface geology.

The following guidelines are suggested for maximum core recovery:

- a) The preferred hole size is NX/NQ.
- b) Type of bits: Diamond
- c) More than 90% core recovery in each run should be ensured.
- d) To achieve this, controlling vibration, rotation, water circulation, using good diamond bits, straight drill rods, taking short runs (e.g 30cm or less) etc. should be adopted.
- e) Even triple tube core barrel may be used in soft, closely jointed, fractured rock mass to ensure the suggested core recovery.
- f) Daily progress log sheets of drilling operation should contain the following:
  - i. date & time of every run,
  - ii. rate of penetration and tentative drilling pressure
  - iii. water loss- nil, partial loss, full loss
  - iv. colour of return water
  - v. run length
  - vi. recovery %
  - vii. gap/fall of drill rods/ penetration of rod without applied pressure
  - viii. the collar elevation
  - ix. coordinates

- x. depth of hole
  - xi. size of hole
  - xii. type of bit used
  - xiii. casing depth & size
  - xiv. Daily water table should also be noted in the log sheet before starting drilling operation and completion of drilling operation.
- g) Preservation of cores
- i. The cores should be preserved in core box with marking of runs in a very good manner so that the cores should not be disturbed for geological logging after completion of the drill hole and also for verification during construction of the project
  - ii. The numbering of cores (size more than 2cm) with arrow towards depth should also be marked on the cores with continuous numbering in all the runs of a drill hole
  - iii. Photographs of cores with numbering and runs.
  - iv. In case of triple tube, photographs should be taken within the barrel after splitting the barrel as well as in the core box.
- h) It is also proposed to carry out the water percolation test in ascending & descending order at 3m interval in the holes and determination of secondary permeability (K/ Lugeon).
- i) Any other important observations.

### **5.3.11 FIELD PERMEABILITY TESTS**

Constant Head Method and Reducing Head Method For the in-situ subsurface investigation of the soil, Reducing Head Method and Constant Head Method shall be performed as per the relevant standards. The results obtained shall be documented properly and interpolated along with the results from the core drilling. The constant head and reducing head test shall be carried out for every 3m depth of drilling length or as per the instruction of WAPCOS geologist. Field permeability test consist of constant and falling head method for soil and Lugeon test for rock. Lugeon tests shall be conducted to determine the permeability of rock strata in the subsurface. This shall give the properties of the rock in terms of water tightness, fractures of the rock. This shall be done using Pressure tests, by use of pump to establish controlled constant selected pressure over a certain period of time and flow meters to measure flow. The permeability test shall be conducted by Lugeon Test and the frequency of test shall be performed at every 3m interval of drilled length or

As per the instruction of WAPCOS geologist. The observation of the test shall be suitably recorded in appropriate format and analysed.

### **5.3.12. DOCUMENTATION**

Upon completion of geological investigation, the data generated from these investigations shall be documented. The subsurface investigations and geological illustrations in the investigation reports shall be sufficiently comprehensive to supply reliable information on all geological conditions that can influence the design, construction and cost of the project. The following maps and test data shall be included in the documentation as applicable. Geological logs of drilling work including results of permeability test.

### **5.3.13. TEST REQUIREMENTS**

#### **a. CORE DRILLING**

The location & actual length of the drill holes will be decided by the site Engineer/geologist after considering the site conditions and materials retrieved from the core runs during the drilling of the holes. As such the payments for bore holes shall be as per the actual depth of drilling.

#### **b. IN-SITU TESTS**

The water pressure test comprising of Constant Head Method and Falling Head method for the soil and Lugeon Test for rock shall be carried out at every 3m run of the drill length in each Bore Hole. The rates quoted shall therefore be for every test conducted and the payment accordingly be applied in drilling rate. The Test and the reports for these tests shall be as per the international or Indian standards.

### **5.3.14. PROTECTION OF ENVIRONMENT**

While conducting site geological investigations, necessary measures shall be adopted to protect the environment of the project areas and its surroundings. During the investigations, the following protective measures shall be enforced: Access routes to the investigation sites shall be selected with care to minimize damage to the environment.

Operation of investigation equipment shall be controlled at all times, and the extent of damaged areas shall be held to the minimum consistent with the requirements for obtaining adequate data. The site camps /dwellings shall have proper waste disposal arrangement. After the investigations are completed, areas disturbed by the investigation shall be restored to its natural appearances.

### **5.3.15. SCHEDULE**

The works shall be completed in Forty-Five (45) Days in all respect, from the date of commencement.

### **5.4. PROPONENT EXPERTISE/ELIGIBILITY/EVALUATION CRITERIA**

#### **I General Criteria**

1. The bidder shall be a registration firm with any State/ Central Government.
2. The bidder shall have Aggregate Annual Turnover of at least **Rs. 1 Crore** for the last three (3) financial years.
3. The bidder shall have experience not less than 3 years in executing similar types of works.
4. The bidders shall enclose the copies in support of the above.

#### **II. Technical Criteria**

1. The Agency/Contractor should also have satisfactorily completed the similar types of works as mentioned in scope of work during the last three years.  
(Similar works here means core drilling works (inclined/vertical/horizontal) executed in Hydro power/ Pumped Storage Projects only.) (Completion certificate issued by client indicating completion cost, date of commencement and date of completion to be submitted)
2. The bidder should have completed at least one drilling work of depth 200 m for one particular project.

#### **III. Evaluation of Bids**

Prior to detailed evaluation of qualification requirements, NREDCAP will determine whether each bidder is substantially responsive to the requirements of the qualification document. For the purpose of these processes, a substantially responsive qualification is one which conforms to all the terms, conditions and requirements of the qualification documents without material deviation. The bidder may note the following evaluation criteria for the purpose of determining successful bidder. Please note that the NREDCAP is no obligation to award the contract after determining such successful bidder. NREDCAP is having right to reject any or all offers received or cancel the tender itself.

The financial bids of the technically qualified bidders shall be opened at the notified date & time after technical evaluation stage.

## **5.5. PAYMENT SCHEDULE AND TERMS**

Payment will be made on pro-rata basis on actual progress for satisfactory completion of each 200 metre core drilling.

The bidder is requested to note that the amount quoted shall be in Indian Rupees and should include any applicable taxes, charges, levies, fees, etc., except Service Tax /GST which shall be payable by NREDCAP as per prevailing rates during the contractual period and shall be shown separately. All statutory recoveries shall be made from the Consultant at the current rates.

Income tax deduction at source will be carried out by NREDCAP. If exempted from payment of Income tax, then necessary proof of Income tax exemption should be submitted along with the proposal.

As a general rule no mobilization advance will be paid by NREDCAP for initiation of work. While quoting the terms of payment the same may be noted.

All incidental expenses incurred by NREDCAP for making payments outside Tadepalli in which claim arises shall be borne by the Consultant. The pricing model should be encompassing for all the work - anticipated for obtaining requisite clearances for implementation of the proposed project and to be completed by the Consultant within the specified period fixed.

## **5.6. EXTRA WORK**

Any extra work is required to be taken up based on the site conditions / suggestions or recommendations of GSI/ requirement of the project developer, etc., shall be undertaken at the same rate at which the contract is awarded. No any additional cost will be paid.

Prior to starting extra work, the agency will be required to submit proposal to NREDCAP and work shall be undertaken only after obtaining written approval from the NREDCAP.

## **5.7. ACCEPTANCE OF WORK ORDER AND EXECUTION OF AGREEMENTS**

Within **Seven days** from the date of issue of the Work order, the successful proponent (consultant) shall accept the work order and return the duplicate copy of same to the VC& MD.

## 5.8. PERFORMANCE GUARANTEE

For the due and faithful performance of the contract, the successful proponent shall be required to furnish a performance guarantee (security deposit) of **3% of the Total Contract Amount** in the form of a Bank Guarantee (issued by any Scheduled Bank/ Nationalized Bank) and shall be submitted within Seven working days from the date of awarding of work.

The bank guarantee format for submission of EMD is attached. The details of the banker of NREDCAP are as follows:

- |      |                  |   |                                 |
|------|------------------|---|---------------------------------|
| i.   | Name of the Bank | : | State Bank of India             |
| ii.  | Account No       | : | 5218 8926 870                   |
| iii. | Branch Name      | : | Tadepalli, Guntur Dist, 522501. |
| iv.  | IFSC Code        | : | SBIN 0012870                    |

The bank guarantee shall be valid initially for a period of **Six (6)** months from the date of award of the work with a claim period of **One (1)** month thereafter and has to be suitably extended from time to time. No interest is payable by NREDCAP on the security deposit.

## SECTION 6: PROPOSAL CONTENT & REQUIREMENTS

NREDCAP will use the submitted proposals and information contained therein as the basis for selecting the successful consultant. Therefore, the proposals shall include a table of contents, in a format like document and include all responses to each and every term & condition covered in these documents. The proponent may cover the following:

### MANDATORY REQUIREMENTS:

- a) Submission must be received in their entirety by the time and date indicated in the document.
- b) An official of the consultant who is authorized to sign on behalf of and bind the proponent to statements made in the proponent's submission must sign the submissions.
- c) The Proponent must clearly demonstrate their experience in Geo-Technical Investigation Activities.
- d) The Proponent must demonstrate their understanding and knowledge of the scope of work mentioned in the tender document.



- e) Proponents must ensure that this information is clearly presented in specific sections of the proposal.
- f) The Proponent must clearly:
  - Demonstrate an understanding of the complexity of the project and the objectives.
  - Identify the Project Leader’s skills, experience, education and amount of time this individual will devote to the project.
  - Identify the Facilitator’s skills, experience, education and amount of time this individual will devote to the project.
  - Identify the rest of the Proponent’s team, their skills, experience and education.
  - Proponents must ensure that this information is clearly presented in specific sections of the proposal.
- g) The Proponent shall provide a thorough description of how the project will be managed in terms of, methodology, communication plan, risk management, quality management and any other resources required to complete the project.
- h) The Proponent shall also ensure that some of their staff is conversant with local language (Telugu).
- i) The Proponent must indicate that the members of their team have no conflict of interest in connection with this project.

## **GENERAL REQUIREMENTS**

### **PROPONENT BACKGROUND**

Provide a brief summary of the history and organization of the proponent including legal consultant name, years in consultancy, number of staff, location(s) and principal location if applicable, mailing address and principal contact person and telephone no etc.

### **PROPONENT’S REFERENCES**

Provide a minimum of one client reference for a project of similar scope and nature of this work which have been successfully completed. Include a description of the project, name of the client who had assigned the work, address, telephone and mail addresses, and contact person. These information may be used by the NREDCAP to contact those persons directly and assess the factual

details.

## **SUB-CONSULTANTS**

Utilizing a sub-consultant (who must clearly be identified) in the Proponent's response is acceptable. This also includes a joint submission by two or more Proponents having no formal corporate links. However, in this case one of these Proponents must be prepared to take overall responsibility for successful interconnection of the multiple organizations and this must be clearly defined in the Proposal. Also, one firm must act as the sole interface between the joint partners and NREDCAP.

- a) In the event that sub consultants are to be utilized or a joint submission by two or more Proponents is to be utilized, the Proponent must identify in the same manner as a Lead proponent, all relevant information on each and their employees who would be assigned to the project.
- b) Identify how the Consultant, who is responsible for the overall project, will interconnect with sub consultant(s).

**PRICE SCHEDULE**

<b>Sl. No.</b>	<b>Description of Item</b>	<b>Unit</b>	<b>Qty.</b>	<b>Rate (Rs.)</b>	<b>Amount (Rs.)</b>
1	Core drilling in rock including overburden using hydraulic feed rotary drill and double/triple tube core barrel with DIAMOND CORE bit including collection of core samples, maintaining continuous record of core recovery / RQD, keeping the cores in Steel core boxes, transporting to laboratory, providing cap on top on completion of the same, all complete as per the BIS specification and instructions of the Engineer- in Charge				
a	Upto 50m	m	586.74		
b	50-100m	m	203.21		
c	100-150m	m	65.77		
d	150-200m	m	50		
e	200-250 m	m	1.41		
	<b>SUB TOTAL -1</b>	<b>m</b>	<b>907.13</b>		
2	Tests in Drill holes				
a	Conducting field permeability test in soil/ overburden at various locations in boreholes/ pits				
i	Pump in test in borehole by constant head method/falling head method	<b>Each</b>	<b>5</b>		
ii	Percolation test in pits	<b>Each</b>	<b>5</b>		
	<b>SUB TOTAL -2a</b>		<b>10</b>		
b	Conducting field permeability test in rock in drill holes at various depths				
i	Single Packer method	<b>Each</b>	<b>11</b>		
ii	Double Packer Method	<b>Each</b>	<b>255</b>		
	SUB TOTAL -2b				
	SUB TOTAL -2				
	Total (1+2)				

The rate shall be inclusive of all allied works as mentioned in tender document. The rate quoted should be exclusive of GST.

**Signature(s) of Bidder (s)**  
**Name & designation**

## **Annexure 1**

### **LETTER OF APPLICATION**

*(To be filled up by the bidder)*

Name of work: Invitation of Expression of Interest (EoI) for preparation of Invitation of Expression of Interest (EoI) for Geotechnical Investigation (Core Drilling) for 800 MW Owk Pumped Storage Project at OWK in Nandyal District, Andhra Pradesh.

Ref: Tender Notice No:

To

The VC & Managing Director,  
NREDCAP, Tadepalli, Guntur district

Sir,

1. I/We have downloaded the Bid document from the website and I/We have not tampered/modified the Bid forms in any manner. In case, if the same is found to be tampered/modified at a later stage, I/We understand that my/our tender will be summarily rejected, and full bid security will be forfeited.
2. Having examined carefully the specifications together with the conditions of bid & contract, Schedules, and the accompaniments, I/we hereby offer to carry out the works described in the said specifications, etc. at rates entered herein.
3. I/We hereby undertake to plan, organize, execute and complete the whole of the work entrusted to me/ us strictly according to the conditions of contract and the specifications, if the work is awarded.
4. If the work is awarded to me/us, I/we also undertake to execute Agreement and commence the work in terms of the bid conditions and as directed by you.
5. I/We also undertake to abide by the instructions of the NREDCAP from time to time in carrying out the work envisaged under this contract.

Place:

Yours faithfully,

Date:

Signature of Bidder

Name of Firm & address Seal

**Annexure 2**  
**GENERAL INFORMATION OF THE PROPONENT/ BIDDER**

*Note: Separate sheets may be used wherever necessary.*

1. Name & Address of the Bidder :
  
2. Name & Designation of the concerned officer  
to whom all references shall be made :
  
3. Fax nos. :
  
4. Phone nos. /Mobile Nos.: :
  
5. E-Mail ID :
  
6. Total No. of Employees/Manpower Strength :
  
7. Type of the Organization (Public Sector/  
Limited/ Private limited/ Partnership/  
Proprietary /Society/Any other)
  
8. No. of Offices/Centers (enclose the list) :
  
9. Any other information that bidder may : like to give in order to highlight his bid.
  
10. Name & address of local representative, if  
any :

**Annexure 3  
PROFORMA**

**BANK GUARANTEE FOR EARNEST MONEY DEPOSIT**

**Bank Guarantee No:** \_\_\_\_\_

**Date:** \_\_\_\_\_

THIS DEED OF GUARANTEE made on this .....,day of .....two thousand twenty two by the Bank of ..... (Bank name and address) (herein after called “Bank”) to and in favour of New and Renewable Energy Development Corporation of Andhra Pradesh Limited, having its Registered Office at 12-464/5/1, River Oaks Apartment, CSR Kalyana Mandapam Road, Tadepalli, Guntur District ,Pin Code: 522 501,represented by the Vice-Chairman & Managing Director (herein after called “NREDCAP”)

WHEREAS Messrs ..... (herein after called “Bidder”) has submitted his tender response to EOI \_\_\_\_\_ **for the work “Geotechnical Investigation (Core Drilling) for 800 MW Owk Pumped Storage Project at OWK in Nandyal District, Andhra Pradesh.”** (Name of work) (hereinafter called “the Tender”).

And WHEREAS in accordance with the terms and conditions of the Tender, the Bidder has to pay a sum of Rs...../- (Rupees.....towards Earnest Money Deposit (EMD) from a Nationalised /Scheduled Bank.

And WHEREAS the Bank has, at the request of Bidder, agreed to guarantee the payment of the said sum of Rs.....in case the Bidder failed to adhere the terms and conditions of the Tender.

And WHEREAS the Bidder has requested the NREDCAP to accept bank guarantee in lieu of

EMD for a sum of Rs..... as per the Tender conditions.

NOW THIS DEED WITNESSES AS FOLLOWS:

1. In consideration of the NREDCAP having agreed to accept the Bank Guarantee from a Nationalized/Scheduled Bank towards Earnest Money Deposit for a sum equivalent to Rs..... (Rupees..... only), the Bank do hereby guarantee that if the Bidder fails to perform the contract in accordance with the specification and conditions of the Tender as subsequently amended if any, the Bank shall pay forthwith merely on demand without and protest or demur to the NREDCAP such amount or amounts, as the Bank may be called upon to pay by the NREDCAP.

PROVIDED that the liability of the Bank under this deed shall not at any time exceed the said guaranteed amount of Rs...../- (Rupees ..... only)

PROVIDED further that the guarantee hereunder furnished shall be released to the Bidder, in accordance with the terms of the Tender by NREDCAP.

2. The Bank further undertakes to indemnify the NREDCAP against any loss or damage that may be caused or suffered by the NREDCAP by reason of any breach of the term and conditions in the said Tender No. .... dated .....

3. The guarantee herein contained shall remain in force till the terms and conditions of the Tender No. .... Dated ..... have been fully and properly carried out by the said Bidder and in any case, the guarantee shall not hold good after .....

4. The Bank further agrees with the NREDCAP that the NREDCAP shall have the fullest

liberty (without the consent of the Bank and without affecting in any manner the obligations of the Bank hereunder) to vary any of the terms and conditions of the Tender or to extend the time of performance of the Tender by the said Bidder from time to time or to postpone from time to time any of the powers exercisable by the NREDCAP against the said Bidder and to forbear to enforce any of the terms and conditions relating to the said Tender and the Bank shall not be relieved of its liability by the reason of any such variations, or extension being granted to the reason to the said Bidder by reasons of any forbearance, act or omission on the part of the NREDCAP or any indulgence by the NREDCAP to the said Bidder or by any such matter or thing whatsoever which under the law relating to sureties would but for these provisions have the effect of so relieving the Bank.

5. Any account settled between the NREDCAP and the Bidder shall be the conclusive evidence against the Bank for the amount due and shall not be questioned by the Bank.

6. The expression 'Bank', 'NREDCAP' and "Bidder" hereinbefore used shall include their respective successors and assigns.

IN WITNESS WHERE OF Sri/Smt ..... acting for and on behalf of the Bank has signed this Deed on the day, month and year first above written.

Signature

Bank Seal

In the presence of witnesses:

1..... (Name in capital with address)

2..... (Name in capitals to be subscribed with designation, office address or Residential address)

(The Bidder should insert the amount of the EMD in words and figures. The Bank Guarantee shall be valid upto 30.06.2023).



## Annexure-4

### FORM-I

#### FORMAT FOR BID SECURITY DECLARATION

[To be submitted on Non-Judicial Stamp paper of minimum Rs. 100]

To

The VC & Managing Director,

NREDCAP, Tadepalli, Guntur district.

Subject: Bid Security Declaration for ----- (Name of Work/Project)

Dear Sir,

We, the undersigned, declare that;

We, M/s \_\_\_\_\_ (herein referred as bidder) understand that as tender conditions for the work “Expression of Interest (EoI) for Geotechnical Investigation (Core Drilling) for 800 MW Owk Pumped Storage Project at OWK in Nandyal District, Andhra Pradesh”, bids may be supported with a Bid Security Declaration, therefore rather than submitting the EMD, the bidder render the declaration that: -

Bidder will automatically be suspended from being eligible for bidding in any contract with the New and Renewable Energy Development Corporation of Andhra Pradesh Ltd. (NREDCAP) (herein referred as Purchaser) for the period of 3 years, starting on bid submission closing date, if bidder is in breach of any of the following obligation (s) under the bid conditions: -

1. If a Bidder withdraws the proposal or increases the quoted prices after opening of the Proposal and during the period of Bid validity period or its extended period, if any.
2. In case of a successful Bidder, if the Bidder fails to sign the Agreement in accordance with the terms and conditions (including timelines for execution of the Agreement) of this Tender or fails to furnish the Performance Bank Guarantee in accordance with the terms and conditions (including timelines for furnishing PBG) of this Tender.
3. During the Bid process, if a Bidder indulges in any act as would jeopardize or unnecessarily delay the process of bid evaluation and finalization.

Bidder understands that this declaration shall expire if Bidder are not the successful Bidder and on receipt of purchaser’s notification of the award to another Bidder; or thirty days after the validity of the Bid; whichever is earlier.

Yours faithfully,

**Place:**

**Date:**

**Name and Seal of Bidder**

**Annexure-5**  
**PRICE SCHEDULE**

Sl. No.	Description of Item	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
1	Core drilling in rock including overburden using hydraulic feed rotary drill and double/triple tube core barrel with DIAMOND CORE bit including collection of core samples, maintaining continuous record of core recovery / RQD, keeping the cores in Steel core boxes, transporting to laboratory, providing cap on top on completion of the same, all complete as per the BIS specification and instructions of the Engineer- in Charge				
a	Upto 50m	m	586.74		
b	50-100m	m	203.21		
c	100-150m	m	65.77		
d	150-200m	m	50		
e	200-250 m	m	1.41		
	<b>SUB TOTAL -1</b>	<b>m</b>	<b>907.13</b>		
2	Tests in Drill holes				
a	Conducting field permeability test in soil/ overburden at various locations in boreholes/ pits				
i	Pump in test in borehole by constant head method/falling head method	<b>Each</b>	<b>5</b>		
ii	Percolation test in pits	<b>Each</b>	<b>5</b>		
	<b>SUB TOTAL -2a</b>		<b>10</b>		
b	Conducting field permeability test in rock in drill holes at various depths				
i	Single Packer method	<b>Each</b>	<b>11</b>		
ii	Double Packer Method	<b>Each</b>	<b>255</b>		
	<b>SUB TOTAL -2b</b>				
	<b>SUB TOTAL -2</b>				
	<b>Total (1+2)</b>				

The rate shall be inclusive of all allied works as mentioned in Terms of Reference. The rate quoted should be exclusive of GST.

**Signature(s) of Bidder (s)**  
**Name & designation**

**Annexure-6**  
**UNDERTAKING REGARDING BLACKLISTING / NON – DEBARMENT**  
[TO BE FURNISHED ON COMPANY LETTER HEAD, BY CONTRACTING AGENCY]

Name of work:

Ref.: Tender No.....dated.....

To,

The VC & Managing Director,  
NREDCAP, Tadepalli, Guntur district.

This is to certify that we have taken the cognizance of Blacklisting Policy of NREDCAP Ltd. Further, we hereby confirm and declare that we, M/s \_\_\_\_\_, is not blacklisted/ De-registered/ debarred by any Government department/ Public Sector Undertaking/ Private Sector/ or any other agency for which we have Execute/ Undertaken the works/ Services during the last 5 years.

For \_\_\_\_\_

Authorised Signatory

### Annexure-7 CHECK LIST

<b>S No</b>	<b>Description of Document</b>	<b>Whether enclosed (Yes/ No)</b>
1	Authorization Letter to sign the Tender on bidder's original letter head or Power of attorney from the competent authority of the firm.	
2	Scanned copy of EMD or Bid Security Declaration (Form-I) as mentioned in NIT and Scanned copy of Demand Draft for Tender Fees of the amount as mentioned in tender document. EMD is exempted for Micro & Small Enterprises (MSEs) as defined in MSE Procurement Policy issued by department of Micro, Small & Medium Enterprises (MSME). The Bidders exempted from EMD have to submit Bid Security Declaration as per Form-I (Annexure-4).	
3	Letter of application (Annexure-1) as per tender document	
4	Yearly Turnover and Audited Balance Sheet for Last 3 (three) years (2019-20, 2020-21 & 2021-22) duly certified by the statutory auditor of the firm/company.	
5	Experience certificate for similar nature of works. The bidder should have completed at least one drilling work of depth 200 m for one particular project.	
6	General information of the proponent (Annexure-2)	
7	Copy of PAN Number, GST Certificate & ROC	
8	Bidder should not be blacklisted/ debarred by any government /semi government department/ PSU. Bidders shall give undertaking for not being involved in any form of corrupt and fraudulent practices.	
9	Signed tender document	