



ಕರ್ನಾಟಕ ನವೀಕರಿಸಬಹುದಾದ ಇಂಧನ ಅಭಿವೃದ್ಧಿ ನಿಯಮಿತ  
**KARNATAKA RENEWABLE ENERGY DEVELOPMENT LIMITED**  
(A Government of Karnataka Undertaking)

KREDL/07/SG/KIOCL /2023/

1483

Date: 08 JUN 2023

To,  
Consultants,

**INVITATION LETTER**

Sir,

Sub: Invitation to Submit Financial Proposal for Technical Consultancy Services for 10 MWac Solar PV Power Project - KIOCL Limited.,

Karnataka Renewable Energy Development Limited (KREDL), a nodal agency of Government of Karnataka responsible for promoting renewable energy in Karnataka State, is submitting this proposal on behalf of KIOCL Limited. This proposal is in response to KIOCL Limited's inquiry seeking technical consultancy services for the establishment of a 10 MWac captive solar PV project in Karnataka State.

KIOCL Limited, an Indian government-owned enterprise, has approached KREDL seeking assistance in selecting an Engineering, Procurement, and Construction (EPC) contractor through competitive bidding for the implementation of the 10 MWac solar project.

KREDL intends to engage a consultancy firm for technical services throughout the project lifecycle, from conceptualization to commissioning, including plant handover. The scope of work includes drafting tender documents for the Detailed Project Report (DPR), bid process management, clarifications on bid-related queries, bid evaluation, assistance in project approvals, inspection and procurement plans, as well as organizing monthly progress review meetings.

The detailed scope of work and other terms and conditions are enclosed herewith.

The interested consultants may submit their financial proposals in a separate sealed cover for participating in the bid on or before 17-06-23 up to 16.00 Hrs.. Please ensure that the proposal is delivered within the specified timeframe, as late submissions will not be considered.

Yours faithfully,

-sd-  
Assistant General Manager

ನಂ. 6/13/1, 10ನೇ ಬ್ಲಾಕ್, 2ನೇ ಹಂತ,  
ನಾಗರಭಾವಿ, ಬೆಂಗಳೂರು - 560 072.  
ಫೋನ್: 2228 2220, 2220 8109, 2220 7851,  
ಫ್ಯಾಕ್ಸ್: 080 - 2225 7399



RTI

#6/13/1, 10th Block, 2nd Stage,  
Nagarbhavi, Bengaluru - 560 072.  
E-mail : kredlmd@gmail.com  
Tel. : 2228 2220, 2220 8109, 2220 7851  
Fax : 080 2225 7399

**Request for Financial Proposal  
for  
Providing Technical Consultancy  
Services for setting up of 10 MWac  
Solar PV Power Project for KIOCL  
Limited in Karnataka.**



**Karnataka Renewable Energy Development Limited**

(A Government of Karnataka Undertaking)

# 6/13/1, K.R.E.D.L Office Building, 10th Block, 2nd Phase, Nagarbhavi, Bengaluru-560 072

# **Request for Financial Proposal for “Providing Technical consultancy services for setting up of 10 MW Solar Project for KIOCL Limited in Karnataka State**

## **1. Background**

KIOCL Limited, a prominent Indian government-owned enterprise, has recently embarked on a new venture in the renewable energy sector. With a focus on clean and sustainable power generation, KIOCL aims to establish a 10MWac captive solar PV project in Karnataka State, India.

Recognizing the significance of renewable energy sources in combating climate change and reducing carbon emissions, KIOCL has partnered with the Karnataka Renewable Energy Development Limited (KREDL) to leverage their expertise in the renewable energy domain.

KREDL, a renowned organization responsible for promoting and facilitating renewable energy projects in Karnataka, has been entrusted with the task of providing technical consultancy services for the successful implementation of this ambitious solar project.

The 10MWac captive solar PV project will harness the abundant solar resources of Karnataka, leveraging its geographical location and favorable solar irradiation. The project aims to contribute significantly to the state's renewable energy targets while reducing reliance on conventional energy sources.

By harnessing solar power, KIOCL seeks to not only generate clean and sustainable electricity but also demonstrate its commitment to environmental stewardship and sustainable development. The establishment of the captive solar PV project aligns with the Indian government's ambitious renewable energy goals, as well as the state's commitment to transitioning to a low-carbon economy.

KIOCL's collaboration with KREDL for technical consultancy services underscores their dedication to ensuring the project's successful execution. By leveraging KREDL's extensive knowledge and experience in the renewable energy sector, KIOCL aims to benefit from their guidance and expertise in various aspects of the project, including design, procurement, construction, and project management.

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## **2. Objective**

The objective of this project is to provide technical consultancy services for the establishment of a 10 MW Solar Project for KIOCL Limited in Karnataka State. The services will be carried out in accordance with the requirements specified by KREDL (Karnataka Renewable Energy Development Limited) and KIOCL. The primary goal is to ensure the successful implementation of the solar project by offering specialized technical expertise and guidance throughout the project lifecycle.

## **3. Scope of Services:**

### **A. DPR & Bid Process Management**

- 1) Design and execute the contractor selection process on behalf of KIOCL, including recommending critical parameters for bid evaluation, such as technical and financial qualification criteria and bid evaluation parameters.
- 2) Finalize the parameters for bid evaluation and include them in the bid documents.
- 3) Draft tender documents and ensure clarity in the documentation.

- 4) Address and provide clarifications to the queries raised by prospective bidders.
- 5) Participate in meetings with the bidders to discuss project details.
- 6) Evaluate the bids received based on the predetermined evaluation criteria.
- 7) Provide support to KIOCL in the process of awarding the contract.
- 8) Prepare a Detailed Project Report (DPR) for project estimation and board approval, covering the following aspects:
  - a) Indian energy scenario
  - b) Land selection criteria and options
  - c) Technical feasibility assessment
  - d) Solar PV technology
  - e) Typical plant layout and evacuation scheme
  - f) Technical specifications for various equipment and systems
  - g) Estimated energy generated PV system report
  - h) Clean Development Mechanism (CDM) benefits
  - i) Project energy yield analysis
  - j) Environmental aspects
  - k) Project implementation schedule
  - l) Risk analysis
  - m) Tentative Bill of Quantities (BOQ) and cost estimation
  - n) Project costs and financial analysis
  - o) Savings projections
  - p) Assist in obtaining board approval for the project.
  - q) Define the eligibility and qualification criteria for bidders, including technical and financial criteria.
  - r) Define instructions to bidders, payment mechanism, termination and subcontracting conditions, special conditions of the contract, and general conditions of the contract.
  - s) Define technical specifications for individual equipment.
  - t) Define payment terms, force majeure and change in law provisions, and project schedule.
  - u) Define Earnest Money Deposit (EMD) requirements and timelines for bidding.
  - v) Conduct pre-bid meetings and assist in responding to bidder queries.
  - w) Assist in bid evaluation based on the predetermined criteria.
  - x) Prepare the draft Engineering, Procurement, and Construction (EPC) agreement, including obligations of parties, construction and O&M requirements, technical specifications, payment mechanism, events of default, force majeure conditions, and compensation.
  - y) Assist in issuing work orders for the selected bidder.
  - z) Provide assistance in obtaining necessary approvals, including screening of land, due diligence, substation feasibility review, NA conversion, GO approvals, and bay approval support.

## **B. Design and Project Management Consultancy**

1. Define the project organization structure, including an escalation matrix and communication protocol.
2. Finalize the project schedule proposed by the Engineering, Procurement, and Construction (EPC) contractor.
3. Identify and finalize the project document deliverables.
4. Review the procurement plan and activities related to the project.
5. Finalize the inspection plan for quality control and assurance.
6. Review the construction, dispatch, and erection schedules provided by the EPC contractor.
7. Handle day-to-day correspondences related to project execution and contractual issues.

8. Organize progress review meetings on a monthly basis to assess project status and identify any necessary adjustments.
9. Review and recommend the bills submitted by the EPC contractor.
10. Review detailed engineering and vendor engineering documents to ensure compliance with project requirements.
11. Provide suggestions on sourcing and alternative materials and agencies as necessary.
12. Review the Quality Assurance Plan (QAP) to ensure adherence to quality standards.
13. Review manufacturer's internal test reports and contractor's inspection reports in accordance with the QAP.
14. Conduct inspections of materials at site and factory premises to ensure compliance with specifications and quality standards.

### **C. Construction Management**

1. Monitor the progress of the project implementation in accordance with Good Industry Practice, ensuring compliance with approved plans and drawings.
2. Provide a technical and experienced team to the site to ensure effective execution of the project within the designated timeframe and quality standards.
3. Conduct tests on materials and/or equipment as required to ensure their suitability and compliance.
4. Verify that the construction works and operations carried out by the EPC Contractor align with Prudent Utility Practices.
5. Identify any instances where the work fails to comply with specifications and quantity requirements, and propose suitable corrective measures.
6. Interpret the requirements of the contract and assess the performance of the Contractor based on those requirements.
7. Develop plans to accommodate any delays in the construction schedule and ensure completion of the project within the initial planned timeframe.
8. Conduct random inspections of major and balance items to ensure conformance with the approved Quality Assurance Plan (QAP).
9. Verify the construction works and operations being carried out by the Contractor, and in case of deviations from Prudent Utility Practices, seek clarifications and corrective actions from the Contractor.
10. Manage other site-related activities and maintain necessary records.

### **D. PR Test and Project Handover**

#### **1. Conduct PR Test:**

- a. Perform performance testing of the project facilities to ensure they meet the specified requirements and standards.
- b. Conduct tests on various components and systems to assess their functionality and performance.
- c. Record and analyze the test results to evaluate the overall performance of the project.

#### **2. Record and Verify Equipment Performance:**

- a. Monitor and document the performance of individual equipment and systems installed in the project.
- b. Verify that the equipment operates according to the manufacturer's specifications and meets the performance criteria defined in the project requirements.
- c. Conduct performance evaluations and inspections to ensure proper functioning and efficiency of the equipment.

#### **3. Verification of As-Built Drawings and O&M Plan:**

- a. Review and validate the accuracy of the as-built drawings, which depict the final installation and configuration of the project.
- b. Verify that the as-built drawings are in compliance with the approved design and any modifications made during the construction phase.
- c. Evaluate the completeness and correctness of the Operations and Maintenance (O&M) plan, ensuring it covers all necessary procedures and guidelines for the ongoing operation of the project.

**4. Handover the Project to O&M Personnel:**

- a. Facilitate the smooth transition of the project from the construction phase to the Operations and Maintenance team.
- b. Provide necessary training and guidance to the O&M personnel regarding the project's operation, maintenance, and troubleshooting procedures.
- c. Transfer all relevant documentation, records, and information to the O&M team, ensuring they have the necessary resources for efficient management and upkeep of the project.
- d. Conduct a comprehensive handover process, including the completion of any contractual obligations and formalities.

**5. Deliverables**

SI No.	Activity	Time (Days)
1.	Award of Consultancy Work	D (Zero date)
2.	Submission of DPR & Draft Bid documents	D+30
3.	Assist in Obtaining Board approval	D+45
4.	Corrections in Bid documents, if any	D+50
5.	Publication of NIT/Uploading of Tender	D+52
6.	Pre-bid Meeting	D+62
7.	Pre-bid Reply / Amendments If any	D+70
8.	Bid Submission	D+85
9.	Submission of Bid Evaluation report	D+100
10.	Assist in Issue of LOI on EPC Contractor	D+110
11.	Screening of Feasible Land & Feasibility report	D+160
12.	Co-ordination & advising EPC contractor	D+170
	for project-related approvals like GO, Evacuation Approval	
13.	Assist in Basic Engineering Documents	D+170
14.	Assist in Detailed Engineering Documents	D+205
15.	Project Execution & Vendor documents	D+270
16.	COD (Commercial Operation Date)	D+285
17.	Performance Test & Handover	D+300

**5. Completion period /Time schedule**

**The total work shall be completed within 300 days from the date of signing of contract agreement.**

**6.0 Penalty for the Delay in completion / Liquidated damages:**

- 6.1 The bidder shall clearly note that time is the essence of the contract. The work described in the RFP “the scope of the work” shall be completed within the stipulated period as

per the terms and conditions. However, early completion of the works is highly appreciable.

- 6.2 If the successful consultant fails to complete the work within the stipulated time periods specified in the contract, the KREDL shall without prejudice to its other remedies under the contract, deduct from the contract price as liquidated damage, a sum equivalent to 0.5% of the contract price for each week of delay, subject to a maximum of 10% of the total contract value.
- 6.3 The KREDL has got every right to terminate the contract without any liability if total penalty crosses 10% of the contract value.
- 6.4 KREDL reserves the right to accept/reject any/all the bids without assigning any reasons.
- 6.5 If the “ extension of time “ is allowed under Force Majeure the penalty will not be applicable.

## **7.0 Extension of Time**

If successful bidder requires an extension of time beyond the project completion date (plus any additional period to which the consultant is entitled to on payment of liquidated damages) for reason which are beyond his control, bidder shall apply in writing for extension on occurrence of hindrance but not after the stipulated project completion date. The authorized representative of KREDL shall extend the project completion date if he is satisfied that the delay in performance of bidder's obligation is due to reasons beyond his control.

## **8.0 Submission of Deliverables**

The deliverables shall be submitted in two copies in standard format as approved by KREDL and as per requirement of MNRE along with soft copies.

## **9.0 Duration of the contract**

**The total duration of the assignment shall be for a period of 300 days from the date of execution of the contract, whereas task specific timelines shall be followed as per clause 7.0. As per the scope of work and any requirement made by MNRE as per the guidelines , the consultant will have to complete the desired task within the timelines given.**

## **10.0 Force Majeure:**

In the event of any delay or failure of performance by KREDL or KIOCL, such delay or failure shall not be considered as defaults or give rise to any claims for damages if it is caused by the following circumstances beyond the reasonable control of the affected parties, which they could not have reasonably foreseen and guarded against with reasonable care and diligence:

- Acts of God
- Acts of war or hostilities
- Acts or omissions of the government
- Invasion
- Revolution
- Civil commotion
- Blockade
- Embargo

- Sabotage
- Fires
- Severe earthquakes
- Typhoons
- Cyclones
- Lightning
- Plague
- Epidemic
- Pandemic
- Other acts, omissions, or circumstances beyond the reasonable control of the parties affected

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## **6. Termination**

In exceptional circumstances, either KREDL or KIOCL has the right to terminate the order or contract, whether in its entirety or partially, by providing a valid reason for termination and allowing a specified time for both parties to rectify the situation. In such cases, KIOCL will compensate for the services that have been performed up until the date of cancellation, as per the mutually agreed terms of compensation."

## **7. Confidentiality:**

All the information, in any form , provided by KREDL and KIOCL, in connection with the assignment, shall be kept "Strictly Confidential" . All information gathered from and therein shall not be disclosed to any third party.

## **8. Duration of the Contract**

The total duration of the assignment shall be for a period of 300 working days from the date of Letter of Award,

## **9. Information to participant regarding the procedure for submission of proposal**

### **9.1. Eligibility Criteria:**

- i. The firm shall be a single bidding company.
- ii. The firm must submit the following
  - The average turnover of the consultancy services business of the bidder in the preceding three ( 3) financial years as on 31.03.2023
  - Networth of the previous three years
  - The experience list shall include only the works executed by bidder himself as a lead consultant and not as sub-consultant.

Consultants with a minimum of three years of experience in the implementation of solar projects are eligible to participate in this tender. The consultant should have successfully completed at least two assignments with a total capacity of 5MW or more. The experience should be in the development and execution of solar projects, specifically in Karnataka or similar geographical conditions. The consultant must provide valid and verifiable project completion certificates issued by the relevant authorities as proof of their experience. The experience list should include projects where the consultant was directly involved in the planning, design, and execution phases."



## 10.0 Schedule of Selection Process

A	Time and date for submission of proposal	<b>17.06.2023 on or before ( 16 :00 Hours)</b> Bid complete in all aspects should be addressed to <b>Assistant General Manager, Solar Grid</b> , Karnataka Renewable Energy Development Limited (KREDL), Head Office Bangalore # 6/13/1, K.R.E.D.L Office Building, 10th Block, 2nd Phase, Nagarbhavi, Bengaluru-560 072, Karnataka
C	Time and date for opening of the Financial Proposal.	19.06.2023
D	Validity of Proposal	Minimum 90 calendar days from Proposal submission deadline.
E	Letter of Award (LOA)	KREDL will issue LOA to successful consultant.

## 11.Submission of application and Evaluation of Financial Proposal

### Application Submission

The application is to be submitted in a sealed envelope (*Main Envelope*) which should be transcribed in the following manner:

**"Application for Providing Technical Consultancy Services for setting up of 10 MWac Solar PV Power Project for KIOCL Limited in Karnataka".**

To,

**Assistant General Manager-Solar Grid**

Karnataka Renewable Energy Development Limited (KREDL),  
# 6/13/1, K.R.E.D.L Office Building,  
10th Block, 2nd Phase, Nagarbhavi,  
Bengaluru-560 072,  
Karnataka

**"Name of the Firm"**

**The main envelop shall contain the following envelops and documents**

- All the documents mentioned in the section "Formats for response to RFP"
  - Financial /Price Bid:The financial proposal has to be in a separate envelop cover as per the format super scribed with " Financial proposal the enquiry no, Name of the material, Due date and time of opening"
- a) Format for financial proposal. The participant has to submit the financial proposal in the following format

Sl No	Works	Ex works price in Rs.	GS T	Total Price including GST in Rs.
1	<b>DPR &amp; Bid Process Management</b>			
2	<b>Design and Project Management Consultancy</b>			
3	<b>Construction Management</b>			
4	<b>PR Test and Project Handover</b>			
	<b>Total Amount in Rs.</b>			

- b) The cost indicated in the Financial Proposal shall be deemed as final and reflecting the cost of services inclusive of all duties, levies, taxes, cess, travelling expenses, out of pocket expenses and/or any other expenses of whatsoever nature including GST. Omissions, if any, in costing any item shall not entitle the firm to be compensated and the liability to fulfill its obligations as per the Scope of Services within the total quoted price shall be that of the Firm.
- c) The total price quoted shall be inclusive of all taxes and duties on total turnkey basis.
- d) The participant shall quote firm prices only.
- e) The GST shall be paid as per applicable rates on the day of raising the Invoice

- f) The price quoted shall remain fixed and firm during the period of contract and shall not increase in any condition.
- g) KREDL reserves the right to accept/reject any/all tender/tenders without assigning any reasons.

**12.0.** The Firm has the option of sending his application by courier/registered post/speed post or submitting in person so as to reach at the designated address by the time and date stipulated as of this RFP. Application submitted by telex/ telegram/ fax/ email shall not be considered under any circumstances. KREDL shall not be responsible for any delay in receipt of Response.

**12.1.** If the envelopes are not closed and not superscripted as mentioned in this RFP, the KREDL will assume no responsibility for its misplacement or premature opening.

**Price Bid Evaluation and award of contract:**

- a. KREDL will determine whether the Financial Proposals are complete, unqualified, and unconditional.
- b. For financial evaluation, the total cost indicated in the Financial Proposal will be considered
- c. Evaluation shall be based on Bid Price quoted by the Bidder in their Price Bid.
- d. KREDL will review the financial bid proposals. The financial proposals shall be arranged in increasing order of their Quoted Price and ranked accordingly. The Bidder who has quoted the lowest Quoted Price will be ranked as L1 and so on.
- e. **The lowest financial bidder will be awarded the contract.**
- f. **The successful bidder should give acceptance on the above condition by signing each page and return to this office within four (4) days from the date of work order.**
- g. **The successful bidder** has to execute the Contract Agreement with the KREDL within **7 days from** the date of work order.

**11. Confidentiality of Data and Documents**

All Intellectual Property Rights (IPR) of data collected as well as the deliverables produced shall remain with the KREDL. All knowledge and information, which may be acquired during the assignment, shall be for all times and for all purposes, regarded as strictly confidential and held in confidence, and shall not be directly or indirectly disclosed to any person whatsoever, without the explicit written permission of Commissioner of the State.

**12. Conflict of Interest**

Neither the Firm nor any of the personnel engaged by the Firm shall engage in any personal, business or professional activity, which conflicts or could conflict with any of their obligations in relation to this consultancy engagement.

The Firm and the Firm's personnel shall notify KREDL immediately of any actual or potential conflict, together with recommendations as to how the conflict can be avoided or mitigated.

The Firm shall observe, in competing for and executing a contract, the laws against fraud and corruption (including bribery). The Firm shall also furnish information on commissions, gratuities and fees, if any, paid or to be paid to agents or any other party relating to this Proposal and, if awarded, Contract execution.

In case of failure to comply with any of the above, the office reserves the right to terminate the contract immediately, without any financial obligations or liabilities and may also forfeit the Bid Security/Performance Guarantee provided by the Firm.

**13.Rights of KREDL:**

KREDL reserves the right to cancel this notice and not to proceed in the matter, at any stage accept or reject any or all applications, without giving any explanations, whatsoever.

**14.Termination of Contract**

KREDL may, by way of written notice, terminate the contract under the following conditions:

- The Firm is unable to execute the assigned works;
- Quality of the assigned works is not to the satisfaction of the KREDL;
- The Firm fails to meet the prescribed timelines assigned under the prescribed time period; and
- The Firm commits any material or persistent breach of its obligations under the Contract.

**15.Validity**

The proposal shall remain valid for the period of 90 days from the last date of submission of the proposal as specified in this RFP. The proposal with validity of less than 90 days may be rejected as non-responsive.

**16.Amendments to the RFP**

At any time prior to the deadline for submission of the proposal, KREDL may for any reason, modify the RFP, the prospective respondents interested in the RFP shall be notified of the amendments through website and such amendm

**13. Rights f KREDL**

KREDL reserves the right to cancel this notice and not to proceed in the matter, at any stage accept or reject any or all applications, without giving any explanations, whatsoever.

**14.Termination of Contract**

KREDL may, by way of written notice, terminate the contract under the following conditions:

- The Firm is unable to execute the assigned works;
- Quality of the assigned works is not to the satisfaction of the KREDL& KIOCL;
- The Firm fails to meet the prescribed timelines assigned under the prescribed time period; and
- The Firm commits any material or persistent breach of its obligations under the Contract.

**15.Validity**

The proposal shall remain valid for the period of 90 days from the last date of submission of the proposal as specified in this RFP. The proposal with validity of less than 90 days may be rejected as non-responsive.

## 16. Payment Terms:

The payment terms are as follows:

Sl. No	Milestone of Works	Amount
1.	<b>DPR &amp; Bid Process Management</b>	
a.	Design and execution of contractor selection process	10% of total contract
b.	Finalization of bid evaluation parameters and tender docs	10% of total contract
c.	Assistance in the process of awarding the contract	10% of total contract
d.	Preparation and submission of Detailed Project Report (DPR)	10% of total contract
2.	<b>Design and Project Management Consultancy</b>	
a.	Finalization of project organization structure and schedule	10% of total contract
b.	Review and finalization of project document deliverables	10% of total contract
c.	Progress review meetings and review of bills	10% of total contract
3.	<b>Construction Management</b>	
a.	Monitoring project progress and compliance with plans	10% of total contract
b.	Random inspections and verification of construction works	10% of total contract
4.	<b>PR Test and Project Handover</b>	
a.	Conducting PR Test and recording equipment performance	5% of total contract
b.	Verification of as-built drawings and O&M plan & Handover of the project to O&M personnel	5% of total contract

### 16.1. Other terms and conditions:

- i. The sealed and super scribed quotation shall be addressed to the The Assistant General Manager(Solar Grid), Karnataka Renewable Energy Development Limited KREDL, # 6/13/1, K.R.E.D.L Office Building, 10th Block, 2nd Phase, Nagarbhavi, Bengaluru-560 072. The consultant shall submit the financial proposal **in a separate sealed quotation**.
- ii. The quotation shall be valid for 90 (Ninety) days from the date of opening of the quotation.
- iii. 100% Payment will be made only after receipt and verification of the deliverables with the expectation to KIOCL.
- iv. If the price bid format is submitted in the open cover the bid will be treated as non-responsive and it will be rejected.
- v. The proposal shall remain valid for the period of 90 days from the last date of submission of the proposal.
- vi. The total price quoted shall be inclusive of all taxes and duties on total turnkey basis.
- vii. The participant shall clearly and invariably quote the breakup of prices, clearly furnishing the applicable GST, indicating the correct percentage.
- viii. KREDL will review the financial bid proposals. The financial proposals shall be arranged in increasing order of their Quoted Price including GST and ranked accordingly. The consultant who has quoted the lowest Quoted Price will be ranked as L1 and so on.
- ix. The successful consultant should give acceptance on the above condition by signing each page of work order and return to this office within **three (3) working days** from the date of work order.

**Managing Director  
KREDL**