

**Greenko RJ01 IREP Private Limited**

**Registered Office: 1<sup>st</sup> floor, Khasara No. 63, Near Shabad Bus Stand, Baran,  
Rajasthan, India, 325217.**

**ICB/TENDER No.: RJ01 - PSP/SHAHPUR/ELECTRO-MECHANICAL PACKAGE/001  
dated 06<sup>th</sup> March 2024**

**INTERNATIONAL COMPETITIVE BIDDING  
(TWO PART BID)**

M/s Greenko RJ01 IREP Private Limited invites **Sealed Bids** from eligible Bidders / EPC Contractors for implementation of the Project is envisaged through Design, Engineering, Model Testing, Procurement, Manufacturing, Shop Testing, Packing, Insurance, Supply, Transportation to site, Storage, Installation, Erection, Testing & Commissioning, Trial Operation, and conducting Performance Guarantee Tests of Electro-Mechanical Package **on EPC Basis on FIRM & FIXED Price till the completion of Project Schedule for 1800 MW Pumped Storage Project (PSP)**

**Brief scope includes** (but not limited to):

**PACKAGE-A:**

**Electro-Mechanical from MIV to LV terminal Connection of Generator Transformer**

- a) Electro Mechanical Equipment from MIV to LV terminal connection of Generator/Motor transformer, broadly consists of "Main Inlet Valve (MIV) and, its associated equipment, Pump-Turbine (**5x300 MW-Fixed Speed Machines**) and its Auxiliaries, Generator – Motor and its Auxiliaries, Governors, Static Excitation System, Static Frequency Converters (SFC), Starting Bus system connecting to all machines with SPBD including isolators , CLR and VCB's suitable for back to back and SFC starting modes, Phase Reversal Disconnecter Switch (PRDS), Isolated Phase Bus Duct (IPBDs), Associated LV switchgear for the auxiliaries under Contractor's scope, Complete plant SCADA, Instrumentation, Controls and Protection, Special interconnecting Cables & accessories" including supply of Critical Spares (15,000 Hrs) and Mandatory Spares and list of Recommended Spares which are required for 5 Years of Trouble Free operation.
- b) Electro Mechanical Equipment from MIV to LV terminal connection of Generator/Motor transformer, broadly consists of "Main Inlet Valve (MIV) and, its associated equipment, Pump-Turbine (**2x150 MW-Fixed Speed Machines**) and its Auxiliaries, Generator – Motor and its Auxiliaries, Governors, Static Excitation System, Starting Bus system connecting to all machines with SPBD including isolators , CLR and VCB's suitable for back to back and SFC starting modes, Phase Reversal Disconnecter Switch (PRDS), Isolated Phase Bus Duct (IPBDs), Associated LV switchgear for the auxiliaries under Contractor's scope, Complete plant SCADA, Instrumentation, Controls and Protection, Special interconnecting Cables & accessories" including supply of Critical Spares (15,000 Hrs) and Mandatory Spares and list of Recommended Spares which are required for 5 Years of Trouble Free operation.

**Package – B:**

**Balance of Plant (E-BoP & M-BoP for the total station)**

Balance of Plant for 400 kV Pothead yard equipment-CT, PT, CVT, Lightning Arrestors, Isolators, OPGW/PLCC, Power Transformers, 400 kV GIS, HT & LT Switchgear Panels, Earthing System, FRLSH Cables (MV & LV Power, control & Instrumentation with accessories), Cable Trays and Accessories, Auxiliary Station supply Transformers, Auxiliary Unit Transformers, 220 V DC Battery System, complete plant Illumination System, HVAC System, including EOT Cranes, Fire Protection, Detection and Firefighting system, DG Set (11kV, 1010 kVA) including all associated supporting Structures and accessories including all interfaces with package – A scope in complete.

**REMARKS:**

**1. Bidder shall provide OPTIONAL Price for:**

- a) Power Transformers
- b) 400 kV GIS
- c) EOT Crane

**Exclusions:** Civil Works from the above scope is excluded.

**CONTENTS**

| <b>Sl. No.</b>      | <b>Description</b>                                     |
|---------------------|--|
| <b>VOLUME – I</b>   | <b>ICB Documents</b>                                   |
| PART - I            | Notice Inviting Tenders (NIT/ ICB)                     |
| PART - II           | Instructions to Bidders (ITB)                          |
| <b>VOLUME -II</b>   | <b>Special and General Terms &amp; Conditions</b>      |
|                     | Definitions  |
| PART - I            | Special Conditions of Contract (SCC)                   |
| PART - II           | General Conditions of Contract (GCC)                   |
|                     |  |
| <b>VOLUME - III</b> | <b>Technical Specification of EM Package</b>           |
| PART - I            | Project Information, Scope and Technical Specification |
|                     |  |
| <b>VOLUME – IV</b>  | <b>Attachments</b>                                     |
| PART - I            | Attachments for Pre-Qualification/Tech Bid             |
| PART - II           | Attachments for Price Bid                              |
| PART - III          | EHS and HOTO   |

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**VOLUME - I: PART - I**  
**NOTICE INVITING TENDER**  
**NO. RJ01 - PSP/SHAHPUR/ELECTRO-MECHANICAL PACKAGE/001**  
**(TWO PART BID)**

|    |                            |  |
|----|----------------------------|--|
| 1. | <b>Name of the Project</b> | <b>1800 MW Pumped Storage (PSP) [Hydro Electric Project]</b> |
| 2. | Company Name               | GREENKO RJ01 IREP PRIVATE LIMITED                            |
| 3. | Tender Inviting Authority  | Vice President - C&P (IREP Projects)                         |
| 4. | Tender Notice No.          | RJ01 - PSP/SHAHPUR/ELECTRO-MECHANICAL PACKAGE/001            |

**International Competitive Bidding (ICB)**

|    |               |   |
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| 5. | Scope of Work | <p>Design, Engineering, Model Testing, Procurement, Manufacturing, Shop Testing, Packing, Insurance, Supply, Transportation to site, Storage, Installation, Erection, Testing &amp; Commissioning, Trial Operation, and conducting Performance Guarantee Tests of Electro-Mechanical Package <b>on EPC Basis on FIRM &amp; FIXED Price till the completion of Project Schedule for 1800 MW Pumped Storage Project (PSP)</b></p> <p><b>Brief scope includes</b> (but not limited to):</p> <p><b><u>PACKAGE-A: Electro-Mechanical from MIV to LV terminal Connection of Generator Transformer</u></b></p> <p>Electro Mechanical Equipment's from MIV to Generator Stator output terminals, broadly consists of "Main Inlet Valve (MIV) and, its associated equipment, Pump-Turbine (<b>5 x 300 MW + 2 x 150 MW-Fixed Speed Machines</b>) and its Auxiliaries, Generator – Motor, and its Auxiliaries, Governors, Static Frequency Converter (SFC), Phase Reversal Disconnect Switch(PRDS), Isolated Phase Bus Duct (IPBDs), Associated LV and MV switchgear, SCADA, Instrumentation, Auxiliaries, Controls and Protection, Special interconnecting Cables &amp; accessories in complete" including supply of Critical and Mandatory spares; details as per the enclosed technical data.</p> <p><b><u>Package – B:</u></b></p> <p><b><u>Balance of Plant (E-BoP &amp; M-BoP)</u></b></p> <p>Balance of Plant for 400 kV Pothead yard equipment-CT, PT, CVT, Lightning Arrestors, Isolators, OPGW/PLCC, HT &amp; LT Switchgear Panels, Earthing System, FRLSH Cables (Power, control &amp; Instrumentation with accessories), Cable Trays and Accessories, Auxiliary Station Transformers, Auxiliary Unit Transformers, CT's, LAVT, Battery System, Illumination System, HVAC System, including all associated Structures and accessories in complete, including Power Transformers, 400 kV GIS, EOT Cranes, Fire Protection, Detection and Firefighting system, DG Set (11kV, 1010 kVA).</p> |
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|     |   | <p><b>Bidder shall provide <u>OPTIONAL Price</u> for:</b></p> <p>a) Power Transformers<br/>b) 400 kV GIS<br/>c) EOT Crane</p> <p><b>Exclusions:</b> Civil Works from the above scope is excluded</p> <p><b>For 1800 MW Shahpur Pumped Storage Project (PSP)</b></p> <p>This Tender is on EPC basis for complete Scope as defined above and Contract Price shall be <b>FIRM &amp; FIXED</b> throughout the Performance of the Contract without any Price Escalation whatsoever be the reasons on any ground.</p> |
| 6.  | Capacity and Location of the work   | <p><b>1800 MW OFF STREAM CLOSED LOOP PUMPED STORAGE PROJECT (PSP)</b> on EPC -Turnkey basis for complete Electro-Mechanical Works at</p> <p>Village: Shahpur,<br/>Tehsil/Mandal: Shabad,<br/>District: Baran,<br/>State: Rajasthan,<br/>PIN: 325217</p>   |
| 7.  | Tender Type   | <p><b>Tenders through "International Competitive Bidding"</b></p> <p>Two Part type: Part - I: Pre-Qualification &amp; Technical Bid<br/>Part - II: Price Bid and Commercial Terms &amp; Conditions</p>  |
| 8.  | Tender Category   | <p><b>EPC Basis on FIRM &amp; FIXED Price basis</b> throughout the Contract Completion Period (Tender through International Competitive Bidding)</p>  |
| 9.  | Cost of Document  | Nil   |
| 10. | Period of Completion (from the date of LOA)   | <p><b>1<sup>st</sup> Unit COD in 24 months</b></p> <p><b>Last Unit COD by 30 months (All Units Completion)</b></p> <p>{Bidders to provide detailed milestone schedule-Unit wise COD accordingly}</p>  |
| 11. | Bid Security (EMD)<br><br>(Please refer to Clause No: 10 of V (Instruction to Bidders-ITB)) | <p><b>Rs.1.00 Crores [Rupees One Crore only]</b></p> <p>The EMD can be paid in the form of a Bank Guarantee from any Nationalized/ International banks through confirmation by Indian Nationalized Banks and Original Bank Guarantee shall be submitted along with Tender.</p>  |
| 12. | Bid Security Payable to   | <p>a) The Bank Guarantee shall be obtained in favor of M/s GREENKO RJ01 IREP PRIVATE LIMITED from any Nationalized/ International banks through confirmation by Indian Nationalized Banks in the prescribed format (refer to the Annexures). The EMD B.G. shall have the validity up to 180 Days from the date of Bid submission date.</p> <p>b) Addressed to Vice President, C&amp;P (IREP Projects)</p>   |

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| 13. | Contract Performance Bank Guarantee (CPBG)   | <p>Contract Performance Guarantee shall consist of two parts.</p> <p>(a) Contract Performance Bank Guarantee (CPBG) for 10% value of the Contract, which is to be submitted on the date of signing of Contract and</p> <p>(b) Contract Performance Bank Guarantee (CPBG) of 2% equivalent Value of JV Partners shall be submitted (2% value of JV partner's Components).</p> <p>The successful Bidder shall furnish Contract Performance Bank Guarantee for 10% of contract value within one month from the date of Letter of Award/on the day of Signing of the Contract towards the "Contract Performance Bank Guarantee" in the prescribed format (enclosed in the Tender Document). This Guarantee shall remain valid till the completion of the Project + Defect Liability Period (24 months) of all the equipment and works with a claim period of 90 days over and above the guarantee period. Apart from this, JV Partner shall submit 2% CPBG towards Contract Performance and shall be kept valid upto <b>Defect Liability Period</b>.</p> <p>The Contract Performance Guarantee shall be released on successful completion of Defects Liability Period including extensions thereof, if any or issuance of Acceptance Certificate, after completion of Defects Liability Period whichever is later.</p> |
| 14. | Schedule Available Date                      | <b>06<sup>th</sup> March 2024</b> , onwards  |
| 15. | Pre-Bid meeting Date                         | <p>Prospective Bidders are advised to mail their queries,<br/>To : <a href="mailto:manish.a@greenkogroup.com">manish.a@greenkogroup.com</a><br/>CC: <a href="mailto:mohiddin.sk@greenkogroup.com">mohiddin.sk@greenkogroup.com</a><br/><a href="mailto:madhava.b@greenkogroup.com">madhava.b@greenkogroup.com</a><br/>all the queries shall be discussed and addressed with respective Bidder</p>  |
| 16. | Bid Submission closing Date                  | <b>Latest by 29<sup>th</sup> May 2024</b>  |
| 17. | Bid Submission                               | <p><b>Part 1:</b><br/>Technical Bids shall also be submitted thru Electronic Transfer (Sign &amp; Scanned copies) and Hard Copies by Courier/in-person.</p> <p><b>Part 2:</b><br/>Commercial Offers including Price Bid shall be submitted in Sealed Envelope (in-person) only.</p>  |
| 18. | Bid Validity                                 | 180 days from the date of Bid submission date  |
| 19. | Eligibility Criteria (PQ: Pre-Qualification) | <p><b>Eligibility Criteria (TECHNICAL):</b></p> <p>A. The Bidder shall be a manufacturer/Joint Venture/ Consortium having experience in execution of Large Hydro Power Projects specifically in Hydro Pumped Storage Projects / Lift Irrigation Projects and related to E&amp;M equipment viz., TG units with auxiliaries and Electrical &amp; Mechanical BoP, including Design, Engineering, Manufacturing, supply, erection, testing, commissioning and Performance Guarantee Testing.</p>   |

- B. The Bidder can submit the bid in its Individual capacity or in Joint Venture (JV) with another partner(s). In case of Joint Venture (JV), number of JV members should be limited to Three (3) and all JV members should combinedly meet the above requirements. All the JV members shall be **Jointly and severally responsible** for the execution of the total Contract.
- C. The Bidder/JV partner from whom the bidder intends to procure and supply E&M Equipment including Turbine and Generator should have commissioned E&M Equipment including Generator – Turbine & Pump-Motor for Hydro Electric Project /Lift Irrigation Scheme (LIS) with a minimum single unit capacity at least 200 MW and is in operation as on the date of submission of the bid without any major replacement.
- D. The Bidder shall tie up with Manufacturers as Joint Venture Companies/MOU Partner having experience in design, procurement, erection and testing and commissioning of 400 KV Gas Insulated Switchgear (GIS) for 400K switchyard works or should have Joint venture agreement/MOU with such 400 KV Switch Gear manufacturers which are having proven experience.
- E. A member of joint venture that has submitted a bid in response to this tender notice shall not participate in the bid of another joint venture or individually for this project.
- F. Bidder should have capacity for design office backup and field backup having experience in Hydro Electric Power Project including Electro-Mechanical, E-BoP, 400KV switchyard works/ 400 KV Gas Insulated Switchgear (GIS) and/or should have JV/MOU with such firm having experience-
- G. The Bidder can bring in any experienced contractor/manufacturers for E-BoP, 400 KV Switch Yard Works/ 400 KV Gas Insulated Switch gear through JV/MOU having the technical capabilities stipulated in the Notice Inviting Tender to meet experience criteria. In such case the financial capabilities of such contractor/manufacture will not be considered for bid evaluation unless the same are JV member(s).
- H. Any contractor/manufacture who has concluded MOU with one Bidder who has submitted a bid in response to this notice shall not conclude MOU with another Bidder for this project.
- I. Further such JV Partners for all Bought out items, the Bidder should furnish a Back-to-Back Guarantee and 2% CPBG of their portion of the Contract Value to **Greenko RJ01 IREP Private Limited** for satisfactory performance of the Equipment, Spares, and Long-Term Services in addition to the Guarantees furnished by the Bidder.

- J. The Bidder or the manufacturers from whom the Bidder intends to Procure and supply the equipment, shall have an experience of at least 10 years in the field of manufacture of Hydro Electric Power Plant equipment including Vertical Francis Turbines and associated Generators, Generator Transformers, Unit Auxiliary Transformers, Excitation equipment, Generator Circuit Breakers, Hydraulic and Electrical Governing equipment, Control and Protection equipment, E-BoP, 400 KV switchyard equipment/400KV Gas Insulated Switch Gear ( GIS ) and other accessories
- K. The Bidder should have adequate plant and manufacturing capacity available to perform the works properly and expeditiously within the time period specified. The evidence shall consist of written details of the installed manufacturing capacities and present commitments of the Bidder.
- L. The Bidder should have adequate field service organization, Machinery, Tools, Tackles required to provide the necessary field erection and management service required to successfully erect, test and commission the equipment as required by the specifications.
- M. The Bidder should have established quality assurance systems and organization designed to achieve high levels of equipment reliability during manufacturing and operation.
- N. The Bidder has to furnish details of their technical capability along with his Bid as set out in Bid document with necessary supporting documents for evidence.
- O. In the event of any Indian Company submitting the Bid, the Parent company (outside India) must submit the "Parent Company Guarantee" to Employer for satisfactory execution of the scope of the Contract by their Indian Company

**Financial Criteria:**

- A. The Bidder/Lead Member have average annual financial turnover of in Electro-Mechanical works not less than **Rs. 1,000 Crores** during the last three consecutive Financial Years ending 31st March of previous financial year.
- B. In case of JV, Lead Member should have minimum annual financial turnover of in Electro-Mechanical works not less than **Rs. 700 Crores** during the last three consecutive Financial Years ending 31<sup>st</sup> March of previous financial year.
- C. In case of JV, each Member JV (other than Lead Member) should have minimum annual financial turnover of in Electro-Mechanical and or in GIS works not less than **Rs. 350 Crores** during the last three consecutive Financial Years ending 31st March of previous financial year.



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|     |                              | <p>D. The Bidder/Lead Member should be net profit making at least 3 (Three) financial years in the preceding 5 years.</p> <p>E. The Bidders/JV members who have applied for CDR (Corporate Debt Restructuring) or NCLT during the past five financial years and as on the date of submission of the Bids are not eligible to participate in this Bid.</p> <p>F. The Bidder should have adequate financial capacity to meet the financial obligations (as mentioned elsewhere) pursuant to the Scope of Works. The Bidder/ Each JV member should submit their audited Financial Statements for the last 5 Years.</p> <p>G. The Bidder should have Liquid Assets and / or line of credit facility in their name for present work of an amount not less than <b>Rs 150 Crores</b> and certificate of confirmation to be obtained from Nationalized / Scheduled Banks</p> <p>H. In case of joint venture, the joint venture partners should have a legally valid agreement for "<b>Jointly and Severally responsible</b>" the joint venture group members must be a Hydro Power Project equipment manufacturer.</p> <p>I. The above stated requirements are minimum, and the Employer (Greenko RJ01 IREP Private Limited) reserves the right to reject the proposal of any Bidder if in the opinion of the Employer either the qualification data is incomplete, or the Bidder cannot satisfactorily perform the works.</p> <p>J. The Employer also reserves the right to call for any additional Information and data besides reserving the right to reject the tender or Bid if the qualification of the Bidder is considered inadequate to satisfactorily perform the works in the opinion of the Employer</p> <p>K. Above PQ Criteria is applicable either individual or combined considering the Parent Companies /Group of respective Bidders</p> |
| 20. | Officer Inviting Bids        | Vice President -C&P (IREP Projects),  |
| 21. | Address                      | <p><b>Greenko RJ01 IREP Private Limited</b><br/>         13, Sy.No.64 Part, Block-D, Third Floor,<br/>         Hitech City Layout, Madhapur Village,<br/>         Hyderabad-500081,<br/>         Telangana, India, Ph: 040-40301200</p>   |
| 22. | Contact Details              | <p>All Queries to be addressed to: <a href="mailto:manish.a@greenkogroup.com">manish.a@greenkogroup.com</a><br/>         CC: <a href="mailto:mohiddin.sk@greenkogroup.com">mohiddin.sk@greenkogroup.com</a><br/> <a href="mailto:madhava.b@greenkogroup.com">madhava.b@greenkogroup.com</a></p>   |
| 23. | Procedure for bid submission | <p>1) The Bidder should read and understand clearly the general instructions and terms &amp; conditions of the tender document before submission of the tender.</p>   |

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|     |  | <p>2) All the technical &amp; PQ documents shall be submitted duly signed &amp; stamped to the Authority as mentioned in the ICB. Further, these Technical &amp; PQ documents shall be submitted in soft copies (through mail), duly signed &amp; stamped (on all pages in pdf mode), scanned and send to the Authority as mentioned in the ICB.</p> <p>3) The Commercial / Priced documents shall be submitted duly signed &amp; stamped to the Authority as mentioned in the ICB to reach the tender inviting authority (in sealed envelope). The List of the documents to be submitted is given in the Annexure.</p> <p>4) The Bids shall be quoted in INR/USD/EURO only</p> <p>5) The Bidder shall submit the bid and all related correspondence in English language only.</p> |
| 24  | Statutory Requirements   | <p>The Bidders shall fulfil and furnish the following statutory requirements:</p> <p>a) Income tax Clearance Certificate: Bidder shall furnish copies of Permanent Account Number (PAN) card, latest IT returns and latest IT assessment orders.</p> <p>b) The Bidder should furnish the valid registration certificate along with Corporate Identity Number (CIN).</p> <p>c) The Bidder should furnish valid GST Registration Certificate</p>   |
| 25. | Documents to be submitted (Hard copies) to the Tender inviting authority | <p>The successful Bidder should furnish all the hard copies of the information submitted by him to be received by the tender inviting authority within the stipulated date as communicated by the tender inviting authority after finalizing the tender and before issue of LOA/Contract.</p> <p>If the documents uploaded or submitted in the hard copies are found to be fake / defective / manipulated at a later date, the bid will be cancelled, the bid security will be forfeited, and Bidder will be blacklisted.</p>  |
| 26. | Other relevant information   | <p>1) GREENKO RJ01 IREP PRIVATE LIMITED reserves the right to reject any or all the tenders without assigning any reasons thereof.</p> <p>2) GREENKO RJ01 IREP PRIVATE LIMITED reserves the right to amend or modify the tender and its conditions before last date/time for submission of bids.</p> <p>3) GREENKO RJ01 IREP PRIVATE LIMITED reserves the right to order/award <b>"Partial or in full"</b> as per the Packages indicated in the ICB.</p> <p>4) The Bidders are requested to submit the original Bank Guarantees along with other hard copies required as soon as requested by the tender inviting authority.</p> <p>5) The Bidders should upload the technical documents duly stamped and signed on each and every page of the bid.</p>                            |
| 27. | Superscription on Tender Cover (Hard Copies to be                        | <p>The Bidders shall mention the following superscriptions on the tender cover:</p>  |

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|     | furnished on request from the tender inviting authority) | i) Tender Specification No.<br>ii) Name of the Work<br>iii) Due Date<br>iv) EMD/BG PARTICULARS<br>v) Validity of the Tender   |
| 28. | Downloading the Bid Documents<br><br>Our Website:        | The Bidder shall provide their official mail id for obtaining the link for downloading the Tender Documents.<br><br><a href="https://greenkogroup.com/tenders.php">https://greenkogroup.com/tenders.php</a> |

**For Greenko RJ01 IREP Private Limited**

**Sd/-  
Authorized Signatory**