

**GREENKO RJ02 IREP PRIVATE LIMITED**

**Registered Office: 1<sup>ST</sup> FLOOR, KHASARA NO. 63, NEAR SHABAD BUS STAND,  
BARAN, RAJASTHAN, INDIA, 325217.**

**TENDER SPECIFICATION No. RJ02-PSP/SUKHPURA/ELECTRO-MECHANICAL  
PACKAGE/001 dated 21<sup>st</sup> JULY 2022**

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

M/s Greenko RJ02 IREP Private Limited invites **Sealed Bids** from eligible Bidders / EPC Contractors. 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 Equipment from **Main Inlet Valve (MIV) to LV terminal connection of Generator/Motor transformer on EPC Basis on FIRM & FIXED Price till the completion of Project Schedule for 2560 MW Pumped Storage Project (PSP)**

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

**A) For 7 x320 MW-Fixed Speed Machines**

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 (**2240MW - 7x320 MW-Fixed Speed Machines**) and its Auxiliaries, Generator – Motor and its Auxiliaries, Governors, Static Excitation System, Static Frequency Converter (SFC) common for all units, Starting Bus system connecting to all fixed speed machines with isolators and VCB's suitable for back to back and SFC starting mode (SFC Starting switchgears with SPBD and associated accessories), 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

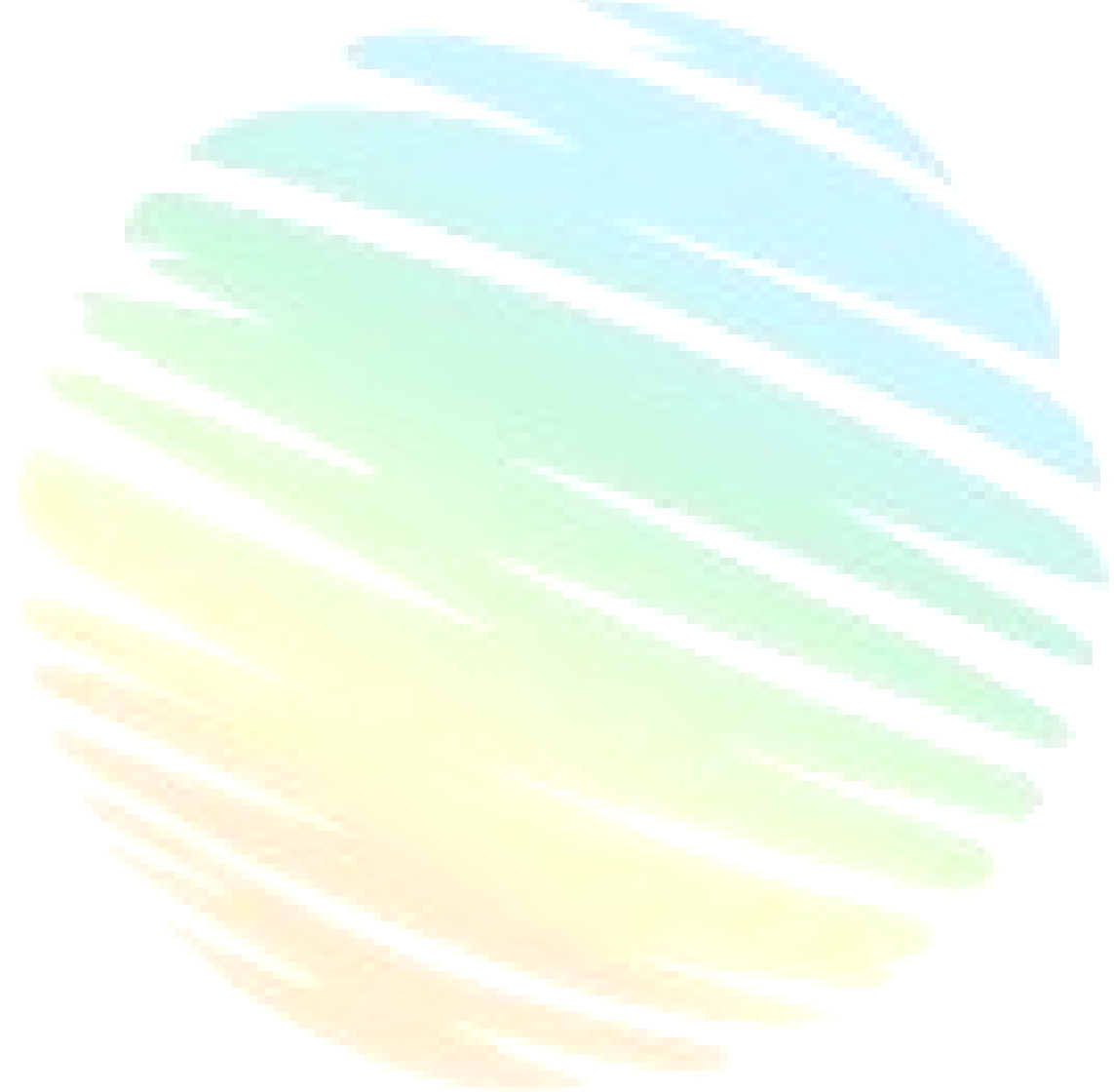
**B) For 2x160 MW- Fixed Speed Machines**

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 (**320 MW -2x160 MW- Fixed Speed Machines**) and its Auxiliaries, Generator – Motor and its Auxiliaries, Governors, Static Excitation System, Starting Bus system connecting to all Fixed speed machines with isolators and VCB's suitable for back to back and SFC starting mode (SFC Starting switchgears with SPBD and associated accessories) Phase Reversal Disconnecter Switch (PRDS), Isolated Phase Bus Duct (IPBDs), Associated LV switchgear for the auxiliaries under Contractor's scope, SCADA, Instrumentation, Controls and Protection, Special interconnecting Cables & accessories" including supply of Critical Spares (15000 Hrs) and Mandatory Spares and List of Recommended Spares which are required for 5 Years of Trouble Free operation.

**C) Erection, Testing & commissioning:**

Complete Erection, Testing & Commissioning of supplied scope (as detailed above) shall be performed by the bidder including all the site infrastructure i.e., storage (both indoor & outdoor), accommodation, containers for office etc., tools & tackles for erection and handling, Mobile/Tower / Gantry cranes for erection of Embedded parts and components until column readiness for access with powerhouse EOT crane (EOT crane under scope of employer) to meet the commissioning dates as specified in the contract document.

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



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**VOLUME - I: PART - I****NOTICE INVITING TENDER**

**TENDER SPECIFICATION No. RJ02-PSP/SUKHPURA/ELECTRO-MECHANICAL  
PACKAGE/001  
(TWO PART BID)**

1.	Name of the Project	2560 MW OFF STREAM CLOSED LOOP PUMPED STORAGE PROJECT (PSP)
2.	Company Name	GREENKO RJ02 IREP PRIVATE LIMITED
3.	Tender Inviting Authority	A.V.P-C&P (IREP Projects)
4.	Tender Notice No.	Ref.: RJ-02/SUKHPURA/ELECTRO-MECHANICAL PACKAGE/001

**International Competitive Bidding (ICB)**

5.	Scope of Work	<p><b>A) For 7 x320 MW-Fixed Speed Machines</b> Electro Mechanical Equipment from <b>MIV to LV terminal connection of Generator/Motor transformer</b>, broadly consists of "Main Inlet Valve (MIV) and, its associated equipment, Pump-Turbine (<b>2240MW - 7x320 MW-Fixed Speed Machines</b>) and its Auxiliaries, Generator – Motor and its Auxiliaries, Governors, Static Excitation System, Static Frequency Converter (SFC) common for all units, Starting Bus system connecting to all fixed speed machines with isolators and VCB's suitable for back to back and SFC starting mode (SFC Starting switchgears with SPBD and associated accessories), 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 &amp; 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</p> <p><b>B) For 2x160 MW- Fixed Speed Machines</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 (320 MW -<b>2x160 MW-Fixed Speed Machines</b>) and its Auxiliaries, Generator – Motor and its Auxiliaries, Governors, Static Excitation System, Starting Bus system connecting to all Fixed speed machines with isolators and VCB's suitable for back to back and SFC starting mode (SFC Starting switchgears with SPBD and associated accessories) Phase Reversal Disconnecter Switch (PRDS), Isolated Phase Bus Duct (IPBDs), Associated LV switchgear for the auxiliaries under Contractor's scope, SCADA, Instrumentation, Controls and Protection, Special interconnecting Cables &amp; accessories" including supply of Critical Spares (15000 Hrs) and Mandatory Spares and List of Recommended Spares which are required for 5 Years of Trouble Free operation.</p>
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		<p><b>C) Erection, Testing &amp; commissioning:</b></p> <p>Complete Erection, Testing &amp; Commissioning of supplied scope (as detailed above) shall be performed by the bidder including all the site infrastructure i.e., storage (both indoor &amp; outdoor), accommodation, containers for office etc., tools &amp; tackles for erection and handling, Mobile/Tower / Gantry cranes for erection of Embedded parts and components until column readiness for access with powerhouse EOT crane (EOT crane under scope of employer) to meet the commissioning dates as specified in the contract document.</p> <p>Exclusions: Civil Works from the above scope is excluded</p> <p>This Tender is on EPC basis for complete Scope as defined above and Contract Price shall be FIRM &amp; FIXED 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>2560 MW OFF STREAM CLOSED LOOP PUMPED STORAGE PROJECT (PSP)</b> on EPC -Turnkey basis for complete Electro-Mechanical Works at</p> <p>Village: Sukhpura, Tehsil/Mandal: Bhainsrorgarh, District: Chittorgarh, State: Rajasthan, PIN: 312613, India.</p>
7.	Tender Type	<p><b>Tenders through "International Competitive Bidding"</b></p> <p>Two Part type: Part - I: Pre-Qualification &amp; Technical Bid 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	Nils
10.	Period of Completion	<p><b>1<sup>st</sup> Unit COD by 1<sup>st</sup> October 2024</b> <b>Last Unit COD by 30<sup>th</sup> May 2025</b> {Bidders to provide detailed milestone schedule-Unit wise COD accordingly)</p>
11.	Bid Security (EMD)  (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/Scheduled/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 RJ02 IREP PRIVATE LIMITED from any Nationalized/ Scheduled/ 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>

		b) Addressed to Associate Vice President, C&P (IREP Projects)
13.	Contract Performance Bank Guarantee	<p>Contract Performance Bank Guarantee (CPBG) for 10% value of the Contract, which is to be submitted on the date of signing of Contract and 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.</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>21<sup>st</sup> July 2022</b> Onwards
15.	Pre-Bid meeting Date	<b>1<sup>st</sup> August 2022</b> (prospective Bidders are advised to mail their queries, at least by <b>27<sup>th</sup> July 2022</b> to <a href="mailto:prakash.c@greenkogroup.com">prakash.c@greenkogroup.com</a> )
16.	Bid Submission closing Date	<b>1<sup>st</sup> September 2022</b>
17.	Bid Submission	<p><b>Part 1:</b> 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> 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><u>Eligibility Criteria (TECHNICAL):</u></b></p> <p>A. The Bidder shall be a manufacturer 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., Turbine Generator units with auxiliaries including Design, Engineering, Manufacturing, supply, erection, testing, commissioning and Performance Guarantee Testing.</p> <p>B. The Bidder shall have the capacity for design, manufacture and supply E&amp;M Equipment including Turbine and Generator should have commissioned E&amp;M Equipment including Generator – Turbine &amp; Pump-Motor for Hydro Electric Project /Lift Irrigation Scheme (LIS) with a minimum single unit capacity at least 150 MW and is in operation as on the date of submission of the bid without any major replacement.</p> <p>C. Bidder should have capacity for design office backup and field backup having experience in execution of Hydro Electric Power Project including Electro- Mechanical equipment.</p>



- D. The Bidder or the manufacturers 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, Excitation equipment, Hydraulic and Electrical Governing equipment, Control and Protection equipment, and other accessories
- E. 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.
- F. 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.
- G. The Bidder should have established quality assurance systems and organization designed to achieve high levels of equipment reliability during manufacturing and operation.
- H. 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.
- I. 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 shall have average annual financial turnover not less than **Rs. 1,000 Crores** in Electro-Mechanical Works during the last three consecutive Financial Years ending 31st March of previous financial year.
- B. The Bidder should be net profit making at least 3 (Three) financial years in the preceding 5 years
- C. The Bidders 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.
- D. The Bidder should have adequate financial capacity to meet the financial obligations (as mentioned elsewhere) pursuant to the Scope of Works. The Bidder should submit their audited Financial Statements for the last 5 Years

		<p>E. 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 100 Crores</b> and certificate of confirmation to be obtained from Nationalized / Scheduled Banks</p> <p>F. The above stated requirements are minimum and the Employer (GREENKO RJ02 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>G. 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>H. Above PQ Criteria is applicable either individual or combined considering the Parent Companies /Group of respective Bidders.</p>
20.	Officer Inviting Bids	<p><b>AVP-C&amp;P (IREP Projects), GREENKO RJ02 IREP PRIVATE LIMITED</b></p>
21.	Address	<p><b>GREENKO RJ02 IREP PRIVATE LIMITED</b></p> <p>13, Sy.No.64 Part, Block-D, Third Floor, Hitech City Layout, Madhapur Village, <u>Hyderabad-500081</u>, Telangana, India, Ph: 040-40301700</p>
22.	Contact Details	<p>All Queries to be addressed to: <a href="mailto:prakash.c@greenkogroup.com">prakash.c@greenkogroup.com</a></p>
23.	Procedure for bid submission	<ol style="list-style-type: none"> <li>1) The Bidder should read and clearly understand the general instructions and terms &amp; conditions of the tender document before submission of the tender.</li> <li>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.</li> <li>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.</li> <li>4) The Bids shall be quoted in INR/USD/EURO only</li> </ol>



		5) The Bidder shall submit the bid and all related correspondence in English language only.
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 RJ02 IREP PRIVATE LIMITED reserves the right to reject any or all the tenders without assigning any reasons thereof.</p> <p>2) GREENKO RJ02 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) 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>4) The Bidders should upload the technical documents duly stamped and signed on each and every page of the bid.</p> <p>For all clarifications and guidance, the Bidders may contact: <a href="mailto:prakash.c@greenkogroup.com">prakash.c@greenkogroup.com</a></p>
27.	Superscription on Tender Cover (Hard Copies to be furnished on request from the tender inviting authority)	<p>The Bidders shall mention the following superscriptions on the tender cover:</p> <p>i) Tender Specification No. ii) Name of the Work iii) Due Date iv) EMD/BG PARTICULARS v) Validity of the Tender</p>

28.	Downloading the Bid Documents  Our Website:	After remittance of payment, the Bidder shall provide their official mail id for obtaining the link for downloading the Tender Documents.  <a href="http://www.greenkogroup.com">www.greenkogroup.com</a>
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**For GREENKO RJ02 IREP PRIVATE LIMITED**

**Sd/-  
Authorized Signatory**

