

**GREENKO KA01 IREP PRIVATE LIMITED****Registered Office: 1366, ROAD NO. 45, JUBLIEE HILLS, HYDERABAD-500033****TENDER SPECIFICATION No. IREP/SAUNDATTI/CIVIL AND HYDRO-MECHANICAL  
PACKAGE/002****INTERNATIONAL COMPETITIVE BIDDING****(TWO PART BID)****BID DOCUMENTS FOR "CIVIL AND HYDRO-MECHANICAL WORKS" for Integrated  
Renewable Energy Project (IREP) - Saundatti**

M/s. Greenko KA01 IREP Private Limited invites sealed bids from eligible Bidders / EPC Contractors.

Implementation of the project has been envisaged through a design-build approach in which the project will be executed through an EPC Contract on **FIRM & FIXED** Price basis with Completion time Gurantee. Brief Scope of Work under this package is detailed hereunder.

Execution of Civil and Hydro-Mechanical Works on EPC Basis, along with complete detailed engineering for the project, Scope of work will include all Civil and H&M components of project i.e. Upper embankment dam, Lower embankment dam (to be included), bottom outlet at upper reservoir, Intake Structure, Intake Tunnel along with Steel Liner, Penstocks, vertical and horizontal Pressure Shaft along with Steel Liner, Surface Powerhouse, Tail Race Tunnel, Outlet structure, Tail race channel, Adits, Hydro-Mechanical Works (including Gates, Stoplogs, hoisting arrangements, Trash Racks & valves etc), all other Appurtenant Works required for completion of project, Infrastructure works along with review & interface of Electro-Mechanical Works, Fabrication, Erection, Testing, Commissioning and conducting Performance Guarantee Testing complete and handing over in all respects of "Civil and Hydro-Mechanical Works" on "EPC BASIS", remedying of the defects if any, and other activities incidental to the completion of Works

Project: 1260 MW Pumped Storage Project integral part of Integrated Renewable Energy Project –at Saundatti, Belgavi Dist., Karnataka, India.

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**GREENKO KA01 IREP PRIVATE LIMITED**  
**Registered Office: 1366, ROAD NO. 45, JUBLIEE HILLS, HYDERABAD-500033**

**VOLUME – I: PART - I**  
**NOTICE INVITING TENDER (NIT)**  
**NO. IREP/SAUNDATTI/ CIVIL AND HYDRO-MECHANICAL PACKAGE/002**  
**(TWO PART BID)**

1.	<b>Name of the Project</b>	<b>1260 MW Pumped Storage (PSP) Hydro Electric Project</b>
2.	Company Name	GREENKO KA01 IREP PRIVATE LIMITED
3.	Tender Inviting Authority	AVP, C&P Department
4.	Tender Notice No.& Date	<u>IREP/SAUNDATTI/CIVIL AND HYDRO-MECHANICAL PACKAGE/002,</u> dt:26 <sup>th</sup> March'2021

**International Competitive Bidding (ICB)**

5.	<b>Scope of Work</b>	<p>Brief scope includes (but not limited to):</p> <p><u>General Scope of Work for this Bid Invitation</u></p> <p>Implementation of the project has been envisaged through a design-build approach in which the project will be executed through an EPC (Firm &amp; Fixed Price basis) Contract. Brief Scope of Work under this package is detailed hereunder.</p> <p>Execution of Civil and Hydro-Mechanical Works on EPC Basis, along with complete detailed engineering for the project, Scope of work will include all Civil and H&amp;M components of project i.e. Upper embankment dam, Lower embankment dam (to be included), bottom outlet at upper reservoir, Intake Structure, Intake Tunnel along with Steel Liner, Penstocks, vertical and horizontal Pressure Shaft along with Steel Liner, Surface Powerhouse, Tail Race Tunnel, Outlet structure, Tail race channel, Adits, Hydro-Mechanical Works (including Gates, Stoplogs, hoisting arrangements, Trash Racks &amp; valves etc), all other Appurtenant Works required for completion of project, Infrastructure works along with review &amp; interface of Electro-Mechanical Works, Fabrication, Erection, Testing, Commissioning and conducting Performance Guarantee Testing complete and handing over in all respects of "Civil and Hydro-Mechanical Works" on "EPC BASIS", remedying of the defects if any, and other activities incidental to the completion of Works</p> <p><u>Detailed Scope of Work</u></p> <p>The scope is detailed here under. The Bidders are advised to quote in accordance with the below scope.</p>
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➤ **Design Engineering:**

Design Engineering for all Civil Works and Hydro Mechanical Works of the Project covering detailed designs, Construction drawings, Specification for all components of works inclusive of modifications/revisions of drawings to suit site conditions or specific requirements. All information of the Electro-Mechanical Equipment received from the various suppliers such as dimensions, loads, arrangements, cables, ducts, pipes, etc, will be made available for interface engineering and establishing reference co-ordinates and alignment of each individual structure for the preparation of construction drawings and AS-BUILT Drawings.

➤ **Civil and Hydro-Mechanical Works**

To carry out the main Civil and Hydro-Mechanical Works which includes but not limited to the design and construction of the following structures and testing and commissioning of such structures.

- Upper Dam consists of Rockfill embankment of varying from 10m to 43m height for creation of upper reservoir and the lower dam,
- Intake Structure,
- 5 Nos. of 175 m long and 6.0 Mtr dia. circular steel lined top inclined pressure shaft,
- 4 nos. each of 856m long (including top vertical bend, Vertical Pressure Shaft of length 235 m, bottom vertical bend & bottom horizontal pressure shaft 621 m long) and 6.0 m dia. circular steel lined each for unit of 252 MW,
- 1 no of 856m long (including top vertical bend, Vertical Pressure Shaft of length 235 m, bottom vertical bend & bottom horizontal pressure shaft) and 6.0 m dia circular steel lined bifurcated into 2 penstocks of 4.25 m dia & 72 m length to feed 2 units each of 126 MW,
- A surface Powerhouse having an installation of four nos. Fixed Speed reversible Francis turbine each of 252 MW capacity operating under a rated head of 206.7 m in generation mode & 216.4 m in pumping mode and two nos. Fixed Speed Francis turbine each of 126 MW capacity

- 4 Nos. of each 228 m long, 7.0 m dia. and 2 nos. of each 230 m long, 5.0 m dia. Tail Race Tunnels lead water from powerhouse to outlet structure
- Outlet Structure with transition
- 45 m wide trapezoidal, un-lined tail race channel with FSD of 6.0 m and 1750 m long connecting to the lower reservoir,
- Intake & Outlet Structure consisting of Trash Rack, Gates, Hoists etc.
- Bottom Outlet structure at upper reservoir with trash rack, gates, Valves & accessories

Note: Lengths and diameters indicated are approximate and will be as per the final design.

**For IREP-SAUNDATTI Pumped Storage Project-1260 MW**

Basic Engineering and Load data for "Powerhouse" will be provided by the Employer. Detailed Engineering shall be in the scope of Bidder

This Tender is on the basis of "EPC Contract" basis and Contract Price shall be **FIRM & FIXED** throughout the Performance of the Contract without any Price Escalation whatsoever be the reasons, other than the variations mentioned in this Tender

6.	Capacity and Location of the work	<b>Integrated Renewable Energy Project (IREP) -1260 MW</b> Pumped Storage Project (PSP) on EPC -Turnkey basis for complete Civil and Hydro-Mechanical Works at Saundatti, Belagavi Dist, Karnataka, India.
7.	Tender Type	<b>Tenders through "International Competitive Bidding"</b> Two Part type: Part - I: Pre-Qualification & Technical Bid Part - II: Price Bid and Commercial Terms & Conditions
8.	Tender Category	<b>EPC Basis on FIRM &amp; FIXED Price basis throughout the Contract Completion Period</b>
9.	Queries reply to:	For all queries, please contact: Mr K Prakash, AVP(C&P), 040-4030 1700 Mail id: Prakash.c@greenkogroup.com
10.	Period of Completion	<b>28 months from the date of Signing of Contract / Effective Date</b>
11.	Defects Liability Period	<b>24 Months</b> from the date of <b>Commercial Operation of Plant (COD) and Taking Over of the Works</b>
12.	Bid Security (EMD)	<b>Rs.1.00 Crores [Rupees Ten Crores only]</b> The EMD shall be in the form of a Bank Guarantee from any nationalized/International bank of reputed and Original Bank Guarantee shall be submitted along with Tender

13.	Bid Security Payable to	<p>a) The Bank Guarantee shall be obtained in favor of M/s Greenko KA01 IREP Private Limited from any nationalized bank in the prescribed format (refer to the Annexures). The B.G. shall have the validity up to 180 Days with claim period of 90 days thereafter.</p> <p>b) Addressed to Associate Vice President, C&amp;P (IREP Projects)</p>
14.	Contract Performance Bank Guarantee	<p>Contract Performance Bank Guarantee (CPBG) towards Contract Performance Security for 10% value of the Contract, which is to be submitted upon award of the Contract</p> <p>The successful Bidder shall furnish a Contract Performance Bank Guarantee <b>(CPBG) for 10% of Contract value</b> within one month from the date of Letter of Award/same day on Signing of the Contract whichever is earlier, towards the "Performance of the Contract" in the prescribed proforma (enclosed in the Tender Document). This Guarantee shall remain valid till the completion of the COD and Taking Over + Defect Liability Period (24 months) of all the Civil and Hydro-Mechanical Works, with a claim period of 90 days over and above the guarantee period.</p> <p>The Contract Performance Bank Guarantee (CPBG) shall be released on successful completion of Defects Liability Period (DLP) including extensions thereof, if any or issuance of Acceptance Certificate, after completion of Defect Liability Period whichever is later.</p>
15.	Schedule Issuance of ICB Documents	<b>26<sup>th</sup> March'2021 onwards</b>
16.	Pre-Bid meeting Date & Time	<b>05<sup>th</sup> April'2021</b> 11:00 Hrs (prospective Bidders are advised to mail their queries, at least by <b>03<sup>rd</sup> April'2021</b> to Email: <a href="mailto:prakash.c@greenkogroup.com">prakash.c@greenkogroup.com</a> ; 040-4030 1700
17.	Bid Submission closing Date	<b>26<sup>th</sup> April'2021 (17:00) Hours</b>
18.	Bid Submission	<p>Part 1: Technical Bids shall be submitted thru Electronic Transfer (Sign &amp; Scanned copies by e-mail) and Hard Copies by Courier/In person</p> <p>Part 2: Commercial Offers shall be submitted in Sealed Envelope (in person) only.</p>
19.	Bid Validity	180 days from the date of bid submission due date

20.

**Eligibility Criteria**

Minimum Eligibility Criteria: The Bidder should satisfy **ALL** the following.

**A) TECHNICAL CRITERIA:**

1. The Bidder should have satisfactorily completed/Substantially completed (i.e. more than 75% work) similar works of value not less than **Rs. 1,400 crores** as a prime Bidder or Lead Partner in joint venture in the same name and style during any one year in the last Five Financial Years (2016-17 to 2020-21 or up to 21-22-Provisional Financial also shall be considered) and upto bid due date. The similar works means, Civil and Hydro-Mechanical Works for RCC/Concrete Dams / Barrages, Earth dams, Rock fill dams, Water Conductor Systems, Gates, Hoists, Penstocks, Powerhouse for Hydro Projects / Barrages/Lift Irrigation Projects.
2. The Bidder should have satisfactorily completed / Substantially completed (i.e. more than 75% work) one similar Project of value not less than **Rs. 700 crores** as a prime Bidder or Lead Partner in joint venture in the same name and style during any one year in last Five Financial Years (2016-17 to 2020-21 or up to 21-22-Provisional Financial also shall be considered) and upto bid due date. The similar works means, Civil and Hydro-Mechanical works for RCC/Concrete Dams / Barrages, Earth dams, Rock fill dams, Water Conductor Systems, Gates, Hoists, Penstocks, Powerhouse for Hydro Projects / Barrages/Lift Irrigation Projects
3. The Lead Bidder should have executed the following Minimum quantities in any **one year** during last Five Financial Years
  - a) **Excavation Works (Soil/Rock) - 24 Lakh Cum**
  - b) **Concrete Works - 1.2 Lakh Cum**
  - c) **Steel Liner Works - 6,000 MT**  
(including MS Pipe Works or Structural works)
  - d) **Gates, Hoist and other structures - 1,000 MT**

**Note: This is to clarify that the Lead Bidder may propose a JV Partner / Consortium Member /Sub-Contractor for H&M works and Earth Works.**
4. As individual / firm / Lead Member in case of J.V, shall have completed/ **Substantially completed (i.e. more than 90% work)** at least one work of concrete dam / rock fill dam/ earth dam / Earth cum rock fill dam having a minimum height not less than **30 m** during last **Seven Financial Years and upto bid due date** as a prime Bidder or as a Lead Member in the JV in the same

name and style.

5. Lead Bidder should engage reputed Engineering Consultancy firm of International repute having design experience of "**Pumped Storage Projects**" of capacity not less than **300 MW** completed in last 10 years. Letter of consent along with their experience details to be submitted by Design consultant in this regard.

**B) FINANCIAL CRITERIA:**

1. The Bidder should have annual financial turnover in all Civil and Hydro-Mechanical works of not less than **Rs. 2,500 Crores** in consecutive two financial years during the last 3(Three) Financial Years (2016-17 to 2020-21 or up to 21-22-Provisional Financial also shall be considered).
2. In case of Joint Venture (JV), Lead Member should have minimum annual financial turnover in all Civil and Hydro-Mechanical works not less than **Rs. 1,250 Crores** in consecutive two years during the last 3(Three) Financial Years (2016-17 to 2020-21 or up to 21-22-Provisional Financial also shall be considered)
3. In case of Joint Venture (JV) each member of joint venture (other than Lead Member) should have minimum annual financial turnover in all Civil and Hydro-Mechanical works not less than **Rs. 450 Crores** in consecutive two years during last 5 (Five) Financial Years (2016-17 to 2020-21 or up to 21-22-Provisional Financial also shall be considered)
4. The Bidder or Lead member of the JV should be **Net Profit** making in at least 3 (Three) financial years during last 7 (Seven) financial years.
5. The Bidders/or any of the 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 Bid are not eligible to participate in this bid.
6. The Bidder should have adequate financial capacity to meet the financial obligations (as mentioned elsewhere) pursuant to the scope of the works. The Bidders should submit their Audited Financial Statements for the last five years.
7. Bidder should have Liquid assets, Line of Credit facilities and /or solvency in their name for present work of an amount not less than



**Rs 150 Crores**

8. The Bidder should have adequate Equipment, Machinery, Plant and Tools & Tackles available to perform the works properly and expeditiously within the time period specified in the Bid document with necessary supporting documents for evidence
9. The Bidder should have established quality assurance systems and organization designed to achieve high levels of quality and reliability during execution and Construction of Civil and Hydro-Mechanical Works
10. The Bidder has to furnish details of their technical capability along with their Bid as set out in Bid document with necessary supporting documents for evidence.
11. The above stated requirements are minimum and the Employer (Greenko KA01 IREP Private Limited) reserves the right to call for any additional information and data besides reserving 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.
12. The Bidders members who are Blacklisted by any Govt. Department/Agency in India as on the date of submission of bid are not eligible to participate in this bid.
13. The Bidder member should submit a certificate from their principal statutory auditor declaring all the above.
14. In case of joint venture, JV members should be limited to **Two (2)** and all JV members should combinedly meet the above qualifying requirements. The joint venture partners should have a legally valid agreement among themselves and shall be "**Jointly and Severally responsible**".
15. The joint venture group members must be a Civil and /or Hydro-Mechanical Engineering company and having experience in Hydro Power Project/Irrigation Projects / Barrages.

21.	Officer Inviting Bids	AVP-C&P (IREP Projects) Greenko KA01 IREP Private Limited
22.	Address	<b>Greenko KA01 IREP Private Limited</b> #1131/A, Road No.36 Jubilee Hills, Hyderabad - 500 033, Telangana, India
23.	Bids submission to	Bids to be addressed to: Mr K Prakash, AVP(C&P).

		<p><b>Greenko KA01 IREP Private Limited</b> #1131/A, Road No.36 Jubilee Hills, Hyderabad - 500 033, Telangana, India</p>
24.	Procedure for bid submission	<ol style="list-style-type: none"> <li>1) The Bidder should read and understand clearly 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 <b>List of the documents</b> to be submitted is given in the Annexure.</li> <li>3) The Bids shall be quoted in Indian Rupees (<b>INR</b>) only</li> <li>4) The Bidder shall submit the bid and all related correspondence in English language only.</li> </ol>
25.	Statutory Requirements	<p>The Bidders shall fulfil and furnish the following statutory requirements:</p> <ol style="list-style-type: none"> <li>a) Income tax Clearance Certificate: Bidder shall furnish copies of Permanent Account Number (PAN) card, latest IT returns and latest IT assessment orders.</li> <li>b) The Bidder should furnish the valid registration certificate along with Corporate Identity Number (CIN).</li> <li>c) The Bidder should furnish valid GST Registration Certificate</li> <li>d) Valid Explosive License for Blasting- Certificate from Chief controller of Explosives from Nagpur / Zonal Offices to be submitted by successful bidder before commencement of work.</li> </ol>
26.	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. 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>
27.	Other relevant information	<ol style="list-style-type: none"> <li>1) GREENKO KA01 IREP PRIVATE LIMITED reserves the right to reject any or all the tenders without assigning any reasons thereof.</li> <li>2) GREENKO KA01 IREP PRIVATE LIMITED reserves the right to amend or</li> </ol>

		<p>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 stamping and signing each and every page of the bid.</p> <p>For all clarifications and guidance, the Bidders may contact the AVP (C&amp;P), GREENKO KA01 IREP PRIVATE LIMITED, #1131/A, Road No.36 Jubilee Hills, Hyderabad - 500 033, Telangana, India # 040- 4030 1700</p>
28.	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> <ul style="list-style-type: none"> <li>i) Tender Specification No.</li> <li>ii) Name of the Work</li> <li>iii) Due Date and Time of Opening</li> <li>iv) EMD/BG PARTICULARS</li> <li>v) Validity of the Tender</li> </ul>
29.	Downloading the Bid Documents  Our Website:	<p>After remittance of payment, the Bidder shall provide their official mail id for obtaining the link for downloading the Tender Documents.</p> <p><a href="http://www.gseplirep.com">www.gseplirep.com</a></p>

**For Greenko KA01 IREP Private Limited**

**Sd/-  
Authorized Signatory**