GVK RATLE HYDRO ELECTRIC PROJECT PRIVATE LIMITED

RATLE HYDRO ELECTRIC PROJECT
(810 MW)

BIDDING DOCUMENT
FOR
"ENGINEERING, PROCUREMENT AND
CONSTRUCTION (EPC) CONTRACT" PACKAGE
FOR “CIVIL & HYDRO MECHANICAL WORKS”

Volume - I

(This document is meant for the exclusive purpose of bidding against this Bid Document No. / Specification and shall not be transferred, reproduced or otherwise used for purposes other than that for which it is specifically issued).
Volume - I

INVITATION FOR BIDS (IFB)
INVITATION FOR BIDS

(INTERNATIONAL COMPETITIVE BIDDING)

Notice No. GVKRHEPPL/RATLE/EPC/01 Dated: ____

Package Title: EPC Contract Package for 810 MW (780MW+30MW) Ratle Hydroelectric Project located in Kishtwar District of Jammu & Kashmir, India – (Civil & Hydromechanical Works)

Package No.: GVKRHEPPL/CONTARCT/RATLE/EPC/01(Civil Works)

1. GVK Power and Infrastructure Limited (GVKPIL) is India’s one of the fastest growing integrated power utility company in the private sector. It has started to make a significant presence through its affiliates and subsidiaries in Power Generation in the States of Uttarakhand, Punjab, J&K and Andhra Pradesh.

GVK Ratle Hydro Electric Project Pvt. Ltd. (GVKRHEPPL ) a group company of GVKPIL has been awarded 810 MW Ratle Hydro Electric Project (Project) on the Chenab river in Kishtwar district of Jammu & Kashmir State through tariff based competitive bid in May 2010 for implementation on BOOT basis by Jammu & Kashmir State Power Development Corporation Limited (Authorized representative of Government of J&K). GVKRHEPPL, intends to implement the Project with a configuration of 4X195 MW + 1X 30 MW, located in Kishtwar district of J&K, India.

2. GVK Ratle Hydro Electric Project Pvt. Ltd (GVKRHEPPL), having its registered office at Paighah House, 156-159, Sardar Patel Road, Secunderabad –India-500 003 and one of the Principal place of business at 2nd Floor, Building No-10, Tower-C, DLF Cyber city, Gurgaon, Haryana, India ("the Owner / GVKRHEPPL") invites sealed bids from eligible bidders for the Construction of Civil and Hydromechanical Works of the Project on **EPC mode through International Competitive Bidding** as per the brief particulars of scope of work mentioned hereinafter.

3. **BRIEF SCOPE OF WORK:** The Brief scope of EPC Contract Package of the Project shall comprise (but not limited to);

   (i) Planning, Design, Engineering and Execution of all Civil structures such as Diversion dykes, Coffer Dams, Diversion Tunnels, Concrete Gravity Dam, Inlet Structure, Pressure Shaft, Pressure Tunnels, Penstocks, Power House, Transformer cavern, Surge Chamber and Tail Race Tunnels etc. including compliance of Environment Management
requirements. The Project is also governed by the provisions of Indus Water Treaty.

(ii) Design, Engineering, Manufacturing, Supply, Erection, Testing & Commissioning of Hydro Mechanical Plants & Equipments such as Spillway radial gates, vertical lift gates/ Stop logs, intake trash racks, , Valves, hoists, lifting beams and gantry cranes etc.

(iii) Design, Engineering, Supply, Fabrication of Penstock Liner from steel plates, its Accessories and Specials, Transportation of Penstock Liner to Project site/site of Erection, Erection, Testing, Painting and Commissioning of complete Penstock.

Based upon preliminary stage design, the Project envisages the following main civil works components, which may change based upon the Detailed Engineering and Design of the Project by the Contractor:

- 27m high Up stream and 17m high Down stream Coffer dams
- Two 11m dia gated Circular Diversion Tunnels for passing 2500 cu mecs non Monsoon flow
- A 133m high (from deepest foundation level) Concrete Gravity Dam, with 5+1 radial gates, with 3 construction sluices of 12.5 m(W) x 12 m(H).
- Four numbers of 6.6m dia steel lined pressure tunnels and one number 3m dia steel lined pressure tunnel
- One 168 m (l) x 24.5m (w) x 48m (h) Under ground powerhouse to accommodate Four nos. Francis turbines of 195 MW each and one 30 MW Francis Turbine.
- One 127m(l) x 14.3m (w) x 22m (h) transformer Cavern to house 14 single phase Transformers, switchyard and associated equipments.
- One under ground surge chamber/draft tube gate operation chamber of size 27m x 22m x 45.4m
- Four numbers Tail race tunnels of size 8.6m dia. circular and 1 number 4.7m dia TRT.

4. The Works under the Contract shall have to be completed within 54 (fifty four) months from the date of issue of Notice to Proceed. Defect Liability Period of 24 (twenty four) months shall commence after completion/ commissioning of works.

5. Bid is open to any person (individual or juristic) (Bidder) from any country or area in the world provided the said person is not prohibited or barred by any law, rule, treaty or otherwise to bid for EPC Contract Package of the Project.

6. Eligible Bidders may obtain the Bid Document from the office of undersigned on submission of formal request along with the specified non-refundable fee.

7. The request must clearly state "Request for Bid Document of EPC Contract Package for Civil Works & Hydro Mechanical works of RATLE H.E. PROJECT ". The Bid documents shall be available on payment of a non-
refundable fee of INR 100,000. (Indian rupees one hundred thousand) or US Dollar 2,500 (two thousand five hundred) only. The non-refundable fee is to be paid in the form of a Demand Draft in favour of “GVK Ratle Hydro Electric Project Pvt Ltd.” payable at Hyderabad (A.P.), India. The Bidder’ may collect the documents in person or through an authorized agent on all working days (except Saturdays and Sundays and holidays) from 02.08.2011 upto 16.08.2011 between 10:00 Hrs. to 1600 Hrs. To obtain Bidding Documents and for further information, Bidders should Contact:

DIRECTOR (HYDEL),  
2nd FLOOR, BUILDING No 10,TOWER-C,  
DLF CYBER CITY- PHASE-II,  
GURGAON-122002, HARYANA, INDIA  
Ph.+91(124 6155500) Extn: 5519  
Fax: +91(124) 6155515, Email: mm.madan@gvk.com

Note: Owner will not dispatch the bid documents through courier and needs to be collected in person or through an authorized agent as above.

8. A pre-bid conference will be held at the above address on 15/09/2011 at 10:00 Hrs.

9. Bids must be submitted in 2 (TWO) sealed envelopes, (ONE CONTAINING TECHNOCOMMERCIAL BIDS AND BID SECURITY AND THE OTHER ONE HAVING PRICE BIDS) which must be either delivered by hand or by registered mail to the undersigned not later than 15.30 Hrs. (IST) on 30.11.2011 together with a Bid Security of INR 50,000,000 (INR Fifty Million Only) or USD 1,200,000 (One Million Two hundred only)either in the form of Demand Draft or Bank Guarantee taken from any scheduled commercial bank.

10 The Bid opening date for Techno commercial Bids - Stage-I, bid shall be intimated separately. Accordingly, the date of opening of Stage-II - (Price) bid shall be intimated separately.

11 The bidder who wishes to participate in the bid for EPC Contract Package of the Project shall satisfactorily establish the Qualifying Requirements attached herewhit as Annexure-1.

12 Late submissions of Bids are liable to be rejected. Financial bids of only Qualified Companies/ Consortium will be opened.

13 GVKRHEPPL reserves the right to reject any or all Bids without assigning any reason.

14 Bidder(s) in their own interest is advised to visit the Project site, to apprise themselves adequately to the extent required for preparation and submission of bids, well in time.
15 Any corrigendum/modification to the documents shall be available on website www.gvk.com only and the Bidder’s are advised to visit the web site regularly before deadline for any changes.

16 GVKRHEPPL will not be liable for any costs or expenses incurred by bidders in connection with the delivery or preparation of bids.

17 Any bid not accompanied by an acceptable Bid Security in a separate sealed envelope shall be rejected by GVKRHEPPL as being non-responsive and returned to the bidders without being opened.

For & on behalf of GVLRHEPP Ltd.

DIRECTOR(HYDEL),
2nd Floor, Building no 10, TOWER-C,
DLF CYBER CITY- PHASE-II,
GURGAON-122002HARYANA, INDIA
Ph.+91(124 6155500)Extn: 5519
Fax: +91(124) 6155515
Email: mm.madan@gvk.com
Annexure-1

1. Qualification Criteria

1.1 The Qualification will be subject to Bidder’s fulfilment of the Qualification Criteria set and stipulated hereunder, substantiated by authentic and relevant information and details in the prescribed formats. Additional information in support of their claims of achievements may be furnished.

1.2 The Bidder’s should have proven experience as contractors in execution of any project with responsibility for Design & Engineering, Civil Works, Hydro-mechanical works of type, magnitude and nature similar to the items listed hereunder. Experience in Hydel Power Projects in North India will be an added qualification. Only such experienced and capable contractors shall be the Eligible Bidders.

2. Technical Criteria

2.1 Applicant / Bidder shall mean and comprise of any of the following arrangements.

   a) An Individual.

   b) A Company incorporated under companies Act in India.

   c) A Joint venture among various companies or individuals with one of the partner as lead partner (whose company is registered in India) with joint and several responsibilities by all the partners for all the responsibilities under the bid / contract. For the purpose of evaluation of qualification criteria, the lead partner shall alone meet the Financial Eligibility Criteria. Any of the partners shall individually qualify for the Eligibility Criteria under civil works or Hydro Mechanical works or Planning, Design and Engineering works. The partner satisfying the Eligibility Criteria under civil works shall at least have 50% share in the joint venture arrangement.

   d) A company incorporated in India (Lead Company) with support arrangements from reputed firms / companies having relevant experience in the fields of Design and Engineering works and/or Hydro Mechanical works only. Such arrangement is termed as Loose Knit consortium.
with the lead company assuming total responsibility for all aspects of EPC work. The lead company shall satisfy the Qualification Criteria under Civil works and Financial Criteria. Only technical credentials of support arrangement companies / firms in the fields of Design and Engineering works and/or Hydro Mechanical works will be considered for evaluation.

2.2 The Qualification will be subject to Bidder’s fulfilment of the Qualification Criteria set and stipulated hereunder, substantiated by authentic and relevant information and details in the prescribed formats. Additional information in support of their claims of achievements may be furnished in any form of their device and design.

2.2.1 CIVIL WORKS

The applicant shall satisfy the following requirements in the preceding five financial years from the date of notification of this bid.

a) Shall have Substantially completed civil works of any single Hydel Power plant involving total contract value of civil works (excluding materials costs for cement, steel and aggregate) not less than Rs 1000 crores. Substantial completion shall mean completion of earthworks in all types of soils / rocks (includes excavations and embankments considered together) not less than 90% of the total quantum of work in the said project and not less than 50% of the total quantum of concrete works envisaged for the applicant in the said project.

b) Shall have Substantially completed tunnels involving size of 9.0m (finished dia) and at least for a length of 2km in any single project. Substantial completion shall mean completion of underground excavation not less than 90% of the total envisaged length of the tunnel in the said project and concrete lining works not less than 50% of the total length of tunnel envisaged for the applicant in the said project. Excavation of caverns will be an added qualification to the applicant.

c) **DAM:** Shall have Substantially completed civil works of dam in any single project involving overall height of not less than 80m from the deepest foundation level and total quantum of concrete not less than 5 lakh cum. Substantial completion shall mean completion of all excavation works envisaged in the said project and not less than 50% of the total concrete quantity envisaged in Dam for the applicant in the said project.
d) **POWER HOUSE:** Shall have Substantially completed civil works of Power House in any single project with a rated capacity of not less than 300MW. Substantial completion shall mean completion of all excavation works envisaged in the Power House of the *said project* and not less than 50% of the total concrete works envisaged in the Power House for the applicant in the *said project*.

2.2.2 **HYDRO MECHANICAL WORKS:** Shall have substantially completed Hydro Mechanical works of any single Hydel Power plant including Dam and Power House with a minimum of 1500 MT of steel fabrication and erection with Hydraulic hoist arrangements, gantry cranes, trash racks. The minimum of size of spillway gate executed in a particular Dam shall be 10m x 14m (H). Substantial completion shall mean completion of not less than total 90% of fabrication works and not less than 2/3rd of total erection works envisaged for the applicant in the *said project*.

2.2.3 **PLANNING, DESIGN AND ENGINEERING:** Shall have substantially completed Design and Engineering for a single Hydel project for a project not less than 300MW rated capacity. Substantial completion shall mean completion of Design of all components of the *said project* and issue of not less than 90% of total construction drawings envisaged in the *said project*.

2.2.4 *said project* means a single project which is executed or being executed by the Bidder and credentials of which is being offered for Qualification for a particular component of work. In case the *said project* was executed/ being executed by a consortium, and one of the partners applies for the present bid then the proportionate qualification as per their share in the joint venture/ consortium agreement will be considered for the Technical evaluation.

3. **Financial Capacity**

**Turnover:**

The Cumulative Gross turnover of the Bidder in the preceding five financial years ending 31st March, 2011 shall not be less than Rs 9000 Million or US$ 200 million and shall have a minimum gross turnover of one third of the said cumulative gross turnover in any one of the financial year during the above period.

**Net worth:**
Networth for the Bidder as well as each member of the Consortium should be more than the Paid up equity and share premium account in any one of the five preceding financial years from the financial year in which the RFQ document has been issued. The above computation shall be derived from any of the past five years’ audited annual accounts.

The Networth shall be computed in the following manner

\[
\text{Networth} = \text{Equity share capital} + \text{Reserves} - \text{Revaluation reserves} - \text{Intangible assets} - \text{Miscellaneous expenditures to the extent not written off and carry forward losses.}
\]

**Profitability:**

The Bidder should have earned net profit in at least 3 out of the preceding 5 financial years.

The bidder should submit the Audited balance sheets and other financial statements for the last five years to demonstrate the financial eligibility of the bidders.

**Working capital:**

The Sole Bidder/Lead Partner of JV shall demonstrate their capability to organize working capital requirements not less than Rs 250 million or US$ 5.55 million by themselves or submit a project specific financial commitment of Banks/Financial institutions of international repute equivalent to the value specified for working capital. The Bidders shall provide an undertaking with their Bid, from their bankers valid for the entire construction period including extensions/ delays etc. The undertakings from the Bidders shall be accompanied with letter(s) of comfort from the proposed banker(s).

Note: The Bidder’s financial evaluation vis-à-vis the requirement stipulated above shall be done on the basis of the duly audited financial statements (Balance Sheets, Profit & Loss Accounts etc.) for the immediately preceding five (5) financial years, to be submitted by the Bidder. The latest Annual Accounts shall not be more than 18 months old. In case the Annual Accounts are more than 18 months old, then a Statement of Account as on the closing date of immediately preceding Financial Year depicting Turnover, Profitability and Net Worth (calculated as per Criteria
laid down in the Document) duly certified by their Chartered Accountant /Certified Public Accountant carrying out the Audit shall also be considered with the Bids.

4.0 **General**

4.1 In case of a Bidder’ is a Company, formed after merger and/or acquisition of other companies, past experience and other antecedents of the merged/acquired companies will be considered for qualification of such Bidder’ provided such Bidder’ continues to own the requisite assets and resources of the merged/ acquired companies relevant to the claimed experience.

4.2 Bidder’ proposing to associate a HM manufacturer as a sub-contractor shall ensure that the proposed sub-contractor does not participate as a Consortium partner with another Bidder’. In case it is done so, the HM manufacturer’s experience will not be considered for evaluation of the Bidder’ proposing him/her/it as a sub-contractor.

However, the same sub-contractor can be proposed by more than one Consortium under any of the HM works.

4.3 The Qualification of a Consortium does not necessarily Qualify any of its partners individually or as a partner in any other Consortium.

4.4 If the present performance of the Bidder’ or any of the members in case of a Consortium, in a current contract for any major work is unsatisfactory as certified by the project authority of the relevant project, the Bidder’ is liable to be disqualified.

4.5 The GVKRHEPPL without assigning any reasons thereof reserves the right to:

(a) amend the scope of work to be tendered,

(b) reject or accept any Bid for reasons including national defence and security considerations, and

(c) cancel the Bidding process and reject all Bids.

The GVKRHEPPL will neither be liable for any such actions nor be under any obligation to inform the Bidder’ of the ground of his decision.