

GVK RATLE HYDRO ELECTRIC PROJECT PRIVATE LIMITED

**RATLE HYDRO ELECTRIC PROJECT
(850 MW)**

BIDDING DOCUMENT

FOR

**"APPOINTMENT OF CONSULTANT FOR
PROJECT PLANNING, MONITORING AND
CONTROLS (PMC)"**

(This document is meant for the exclusive purpose of bidding against this Bid Document No. GVKRHEPPL/RATLE/CONSULTANT/04 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/CONSULTANT/04 Dated: 21/11/2011

Package Title: Contract Package for appointment of consultant for Project Planning, Monitoring and Controls for 850 MW* ({4x205} MW+1x30MW) Ratle Hydroelectric Project located in Kishtwar District of Jammu & Kashmir, India.

Package No.: GVKRHEPPL/CONTARCT/RATLE/CONSULTANT/04

1. GVK Power and Infrastructure Limited (GVKPIL) is one of the fastest growing integrated power utility companies in the private sector in India. 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 850 MW Ratle Hydro Electric Project (Project) for implementation on build, own, operate and transfer (BOOT) basis by Jammu & Kashmir State Power Development Corporation Limited (Authorized representative of Government of J&K) on the Chenab river in Kishtwar district of Jammu & Kashmir State through tariff based competitive bid in May 2010. GVKRHEPPL, intends to implement the Project with a configuration of 4X205 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 Paigah 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 (Bid/Bids) from eligible bidders **through International Competitive Bidding** as per the brief particulars of scope of work mentioned hereinafter.
3. BRIEF SCOPE OF WORK: The brief scope of this Contract Package for the Project shall comprise the preparation of integrated construction schedule, reviewing and monitoring the construction schedule, reviewing the progress at site, carrying out quality audits, reviewing of capital budget, providing expert advice to the Owner and assisting Owner during performance testing and commissioning etc. Detailed Scope of work is attached at Annexure-I.

Note: * The Installed Capacity is subject to final approval from CEA.

4. The Works under the Contract shall have to be **completed within 60 (sixty) months** from the date of issue of Notice to Proceed (NTP) and the rates/prices shall have to be kept **valid for 66 months** from NTP date.
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 the said 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 issuance of Bid Document for Appointment of Consultant for Project Planning, Monitoring and Controls for RATLE H.E. PROJECT**". The Bid Documents shall be available on payment of a non-refundable fee of INR 25,000. (Indian rupees twenty five thousand) or US Dollar 600 (US Dollar six 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 **28.11.2011** upto **09.12.2011 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 **16.01.2012** at 10:00 Hrs. In the event there is a change in date or venue, the same shall be notified at GVK web site.
9. Bids must be submitted in 2 (two) sealed envelopes, (ONE CONTAINING TECHNICAL OFFER AND THE OTHER ONE HAVING PRICE OFFER) which must be either delivered by hand or by registered mail to the undersigned not later than **15.30 Hrs. (IST) on 15.02.2012.**
10. The Bidder who wishes to participate in the Bid for the said Contract Package of the Project shall satisfactorily establish the Qualifying Requirements attached herewith as Annexure-II.

- 11 Late submissions of Bids are liable to be rejected. Price Bids of only Qualified Bidders will be opened.
- 12 GVKRHEPPL reserves the right to reject any or all Bids, without assigning any reason. Such decision / rejection by GVKRHEPPL shall not be open to challenge / question by any Bidder(s) and GVKRHEPPL shall not bear any liability whatsoever, for such a decision.
- 13 Bidder(s) in their own interest are advised to visit the Project site, to appraise of themselves adequately, to the extent required for preparation and submission of Bids, well in time.
- 14 Any corrigendum/modification to the documents shall be available on website www.gvk.com and the Bidder's are advised to visit the web site regularly before the deadline for any changes.
- 15 GVKRHEPPL will not be liable for any costs or expenses incurred by the Bidders in connection with the delivery or preparation of Bids.

For & on behalf of GVL RHEPP Ltd.

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

Annexure-1

SCOPE OF WORK

The scope of work shall comprise but not limited to the following:

1.1 General

The scope of work to be executed by Consultant is as outlined below but not limited to the following: (However the scope may be reviewed any time during pendency of the Contract)

A	Construction Schedule
	<p>Review of the proposed construction schedule (with intermittent Milestones) for the project and determine that adequate time, resources etc provisions have been made for design, construction activity, equipment procurement, equipment fabrication, shipment / transportation, installation, start-up, testing.</p> <p>Compile and analyze of construction schedules of various EPC contractors; Prepare an overall integrated project schedule and further re-scheduling during execution.</p> <p>To determine the critical path(s) considering project deadlines, analyse the likely delays and suggest measures to achieve projects implementation milestones.</p>
	<p>Identification of all activities falling on the critical path of the Project, notification of any likely event affecting or going to affect the execution of critical activity. Early recognition of any act of EPC Contractor going to delay the works including the procurement of Equipment. Recommending the alternatives to mitigate the delay.</p>
	<p>Review Construction Drawing schedule and Engineering progress as per the scheduled progress of construction and ensure availability of construction drawings at site at least 30 days ahead of the scheduled construction</p>

	program on a continuous basis and to further ensure that work at site is not held up due to non availability of the approved Construction Drawings at any point of time.
B	Site
	During the construction phase of the project, review the progress of the project and related construction activities. Submit daily/weekly/ monthly & quarterly reports on the Project's construction progress, reviewing the EPC Contractor's progress and other related issues such as design, procurement, fabrication and construction etc.
C	Quality Audit
	Quality audits of quality control reports of EPC Contractor including the review and recommendation for approval of final quality control reports.
D	Review of Capital Budget
	Comments on the level of performance guarantees and liquidated damages for delays and performance deficiencies available to the project. Review of same with respect to the liquidated damages payable by the Owner under PPA to JKSPDC.
	Review the drawdown schedule and comment on whether each drawdown amount is consistent with the Project schedule and contract requirements.
E	Expert Advice
	Expert advice shall be provided on Dam & Diversion works, Underground & Power House works and Electro-Mechanical works as and when required.
F	Monthly review activities will cover review, comment and confirmation of construction progress and general compliance with final design and approved quality assurance plans.
	Review of annual capital expenditure budget (including Monthly break up) keeping in view the overall construction schedule of the project submitted by the EPC Contractors in the month of March for each subsequent financial year and reviewed monthly.
	Review Monthly construction project cost summary based on the milestone schedule.

	Observe and verify construction progress is proceeding according to prudent industry practice and approved quality assurance plans.
	Review the progress of the evacuation arrangement.
	Review of Milestone compliance report.
	Advising SPV Director on possible problems and delay that may arise in the future, to enable timely action to be taken
	Advise Director/Management on any dispute that may arise between the owner and EPC contractors, to the extent specifically instructed by Owner to do so.
	Maintain a summary of all change orders planned, approved and pending approval
	Generation of all Project-monitoring reports for the Project including exception reports highlighting delays and suggest mid course correction. Monitoring of Contractor's logistics for sufficiency of Construction Equipment
	Prepare the list of the pending points in each package. After every review and at least once a quarter, a report will be prepared outlining all activities completed and those scheduled for the coming half year for an independent review of the status.
G	Testing & Commissioning
	Owner shall provide the Testing and commissioning procedures submitted by EPC Contractors. Consultant shall review the Testing and commissioning procedures in consultation with Owner's Engineer. Owner's Engineer shall recommend the Testing and commissioning procedures for approval by the Independent Engineer. Commissioning and start-up is to be carried out with assistance from all other EPC Package Contractors.
	Consultant shall organize a start-up team to supervise and monitor the commissioning, start-up, performance test and initial operation of the facilities (which shall be carried out in presence of Independent Engineer) consisting of representatives of Owner's operating personnel, EPC Contractors and equipment suppliers.

	Report to Owner on a weekly basis on the progress and status of commissioning and start-up work.
	Ensure that all commissioning records and log sheets are properly documented and submitted to Owner as part of Contractors' Mechanical / Electrical erection completion certificate, approval documents and provisional acceptance documents as relevant.
	Assist the Owner to comply with the entire requirement related to Testing & Commissioning as specified in PPA.
H	Environmental site Review / Environmental Impact Assessment/R&R
	Review of the environmental permit and licenses required for the construction and operation of the facility and ensure the observation /conditions (if any) as required under the various permits and licenses are complied with by the Owner/ EPC Contractors' etc including storage and handling of hazardous chemicals.
	Monitoring the compliance to obligations as prescribed by MOEF, Power Development Department Government of J&K, Government of India specially pertaining to EIA/EMP.
	Review the progress of Rehabilitation and Resettlement work activity schedule is in line with obligation as prescribed by MOEF, Govt. of India and Govt. of J&K.
	Review of compliance with health, safety and other regulatory requirements of various departments.
I	PPA Monitoring
	Preparing progress reports as per the PPA conditions.
	Follow up of the PPA Terms and Conditions and Organize meetings with the State Government including preparation of presentations.
	Review warranty for major equipment components and major operational systems
	Confirmation that required governmental permits and licenses have been obtained for construction and operation.
	Confirmation of certification of performance test results, as per PPA terms & conditions.

Other Terms

For rendering the services, for scope of work specified herein, the consultant shall appoint apart from other supervisory staff the following specialists as a minimum requirement of the Owner at the Project site till commissioning.

- 1) Dam & Diversion works Expert Cum "Team Leader"
- 2) Underground & Power House Works Expert
- 3) Electro-Mechanical expert for Testing & Commissioning

All the aforesaid three experts shall have a minimum of 15 years of Experience in the relevant field. The CVs for all the experts shall be submitted by PMC consultant to Owner for approval.

In the event the "Team Leader" proceeds on leave, he will be replaced immediately by a substitute and till such time he is replaced, the Underground & Power House Expert shall be responsible as "Team Leader".

Expert at Sl. no. 1 & 2 above shall be required immediately on award of the Contract and expert at Sl. no. 3 shall be required after award on E&M Works and/or based on the requirement as given by Engineer In Charge.

1.2 Assistance for the Testing and Commissioning of the plant:

Experienced Personnel & Specialists of Consultant shall witness the specified testing and commissioning during the testing and commissioning of the Equipment/units at site. The Consultant shall also witness all the test results and final setting of the control/protection system, alarm and trips and shall prepare the records for the same during the testing and commissioning.

1.3 REPORTING

For the project Consultant will design a clear reporting system for monitoring: Progress reporting will cover the actual progress at various services fronts vis-à-vis the planned/scheduled progress. However essence of each progress report will be to arrive at proactive actions required to meet the schedules/ milestones rather than giving historical events.

1.3.1 Frequency of Reporting

- i) Daily Progress Report
- ii) Weekly Progress Report
- iii) Monthly Progress Report

1.3.2 Cut Off Dates & Time

- i) Daily Progress Report – By 8.00 AM of next day
- ii) Weekly Progress Report – By Monday morning
- ii) Monthly Progress Report – By 1st of every month, covering period up to 25th of previous month

1.3.3 Contents

All progress reports shall have executive summary highlighting areas of concern, and an analysis of deviations. The detailed report shall consist of the following as a minimum:

- Salient Features of the Project
- S-Curve-Overall Component wise, unit wise, system wise, discipline wise for all stages of the project and also for the Cash flows.
- Quantitative reports of all disciplines depicting planned vs. actual progress, analysis of deviations and recovery plans for all shortfalls to meet the schedules/milestones.
- Program of work to be completed during the next 3 months on a rolling basis.

1.4 Meetings:

The progress review meeting shall be held on weekly and monthly basis at site and on quarterly basis at corporate office. The consultant shall prepare the presentation for meetings which includes the achieved progress Vs scheduled progress, reasons for delays, agency responsible for delay and means to mitigate the delays etc and shall make record notes of the meetings.

Annexure-2

QUALIFICATION CRITERIA

To achieve the objective of setting up a Hydro Power Project with a state-of-the-art technology, the Bidders themselves or with their Joint Venture partners should have previous experience and expertise in providing consultancy services for Project Planning, Monitoring and Controls of at least three Hydro Electric Power Projects in last 20 years, and at least one of them should be in the last five years and one in last 10 years. Further, the Consultant should have completed consultancy services specifically in the area of PMC as specified in the scope, as under:

- i. Experience as Consultant for Project Planning, Monitoring and Controls of at least 3 Hydro Power Stations out of which at least one should be Underground power station with Installed capacity of 500 MW and above and single generating unit rating not less than 150 MW and at least One (1) Hydro Power station should be commissioned. Further, the Consultant should have completed the consultancy work for Project Planning, Monitoring and Controls of at least one Underground power station with Installed capacity of 500 MW and above which has been completed and commissioned in a period of four to five (4 to 5) years.
- ii. Experience of as consultant for Project Planning, Monitoring and Controls of at least 3 Concrete Gravity / Arch Dams of height 70m and above, out of which at least one Dam should be of 100m height. Out of the three dams one should be in operation. Further, the Consultant should have completed the consultancy work for Project Planning, Monitoring and Controls of at least one Concrete Gravity / Arch Dams of 100m height or has completed the concrete quantity of one (1) million cum in a period of four to five (4 to 5) years.

General

- 1.1 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.
- 1.2 The Qualification of a Consortium/ Joint Venture does not necessarily Qualify any of its partners individually or as a partner in any other Consortium/ Joint Venture.
- 1.3 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.
- 1.4 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.