

NTPC LIMITED
(A Government of India Enterprise)



INVITATION FOR BIDS (IFB)

NTPC LIMITED
(A Govt. of India Enterprise) CORPORATE

CONTRACTS, NOIDA

INVITATION FOR BIDS (IFB)

FOR

DPR preparation works of Kumbhe PSP (4X250 MW)

IFB No. - **BID NO: GEM/2024/B/5461141**

Bidding Document No.: CS-8701-350-9

- 1.0 NTPC invites GeM bids on Single stage two envelope basis for aforesaid Package, as per the Brief Scope of Work mentioned hereinafter.

Any 'Bidder from a country which shares a land border with India', as specified in the Bidding Documents, will be eligible to bid in this tender only if bidder is registered with the Competent Authority as mentioned in the Bidding Documents.

Further, any bidder (including bidder from India) having specified Transfer of Technology (ToT) arrangement with an entity from a country which shares a land border with India, will be eligible to bid only if the bidder is registered with the same competent authority.

However, the said requirement of registration will not apply to bidders from those countries (even if sharing a land border with India) to which the Government of India has extended lines of credit or in which the Government of India is engaged in development projects Class-I local suppliers only are eligible to participate in this tender, as defined in the bidding documents/ Public Procurement (Preference to Make in India), Order 2017 and its subsequent amendments/ revisions issued by DPIIT. The bidders may apprise themselves of the relevant provisions of bidding documents in this regard before submission of their bids.

- 2.0 The Bidding Documents for the aforesaid package has been uploaded on GeM Portal <https://gem.gov.in> and may be downloaded through the same.

3.0 BRIEF SCOPE OF WORK

The objective of this assignment is to engage an experienced consultant for preparation of bankable Detailed Project Report (DPR) of International Standards for Kumbhe PSP for maximum annual power generation with competitive tariff considering economical water usage & overall cost, commensurate for taking up the construction work of the Project. NTPC, the Client may intend to approach International funding agencies like World Bank, JICA, ADB, JBIC etc. for funding and therefore, DPR shall include all studies analysis and reports, which are usually required by such Agencies.

The DPR of the proposed scheme has to be prepared as per the latest guidelines of CEA/CWC/ MoEF&CC for obtaining requisite clearances.

- Drone based LIDAR Survey, Geological & Geotechnical Investigations,

Laboratory and In-situ tests for DPR preparation as per latest guidelines from CEA/CWC/GSI/CSMRS and other statutory bodies.

- Field studies, data collection, design and other studies required for the DPR and optimizing the layout of the Project components.
- Preparation of the Detail Project Report as per the guidelines of CEA/CWC/GSI/CSMRS and other statutory bodies.
- Carry out EIA/EMP studies as per latest guidelines of MoEF&CC.
- Other studies required for overall completion of DPR as per requirement CEA/CWC/GSI/CSMRS and other statutory bodies.

Detailed scope of work has been specified in the bidding documents.

4.0 NTPC intends to finance the subject package through Own Resources.

5.0 Dates for Bid Submission and Opening shall be as displayed in the GeMBid.

6.0 All bids must be accompanied by Bid Security for an amount of **INR 50,00,000/- (Rupees Fifty Lakh only)**. The Bid Security shall, at the Bidder's option, be in the form of Electronic Fund Transfer (EFT)/ irrevocable Letter of Credit or a bank guarantee from any of the banks specified in the Bid Data Sheets or an Insurance Surety Bond from an Insurer as per guidelines issued by Insurance Regulatory and Development Authority of India (IRDAI).

"The format of the Bank Guarantee shall be in accordance with the form of Bank Guarantee towards Bid Security/EMD/Performance security//^{*}Advance payment (if applicable) included in the Employer's Bidding Documents only. In addition, the format of the Insurance Surety Bond shall also be in accordance with the form of Insurance Surety Bond towards Bid security/Performance security/ included in the Employer's Bidding Documents only. Any bid not accompanied by an acceptable bid security in a separate sealed envelope shall be rejected by the Employer as being non-responsive.

"Any bid not accompanied by an acceptable bid security in a separate sealed envelope shall be rejected by the Employer as being non-responsive. IN CASE, THE BID SECURITY IS SUBMITTED THROUGH ELECTRONIC FUND TRANSFER (EFT), BIDDER TO SUBMIT THE PROOF OF E- PAYMENT OF BID SECURITY EITHER IN SEPARATE SEALED ENVELOPE OR IN THE GeM PORTAL."

Bidders may kindly note that as QCBS mode of evaluation is considered, **MSE benefits under PPP 2012 order are not applicable for the subject work.**

6.1 Detailed specification, scope of work and terms & conditions are given in the Bidding Documents, which are available for examination and sale at the address given below and as per the following schedule:

Issue of IFB	30.09.2024
Bidding Document No	CS-8701-350-9
Start of Documents download Date	30.09.2024
Last date for receipt of queries from bidders (if any)*	07.10.2024 up to 11:00hrs
Date for Pre-Bid conference	07.10.2024, 15:00 hrs (*)
Bid receipt date ["Submission of hard copy documents for Techno-	21.10.2024, 18:00 hrs

commercial Bid in Envelope-I - Offline” , “Uploading of ‘Envelope-II (Techno-commercial Bid)’ - Online” and “Uploading of ‘Envelope-III (Price Bid) in Template Format’ - Online”]	
Bid Opening Date & Time for Envelope-I and Envelope-II (Techno-Commercial) bid “online”	21.10.2024, 18:30 hrs
Cost of Bidding Document	Not Applicable
Bid Opening Date & Time for Envelope-III (Price) bid in Template Format	Shall be intimated after opening of Envelope-I (Techno-Commercial) Bids.

Note: (*) Please use following link and details for pre bid conference meeting:

https://teams.microsoft.com//meetup-join/19%3ameeting_NTdjYzk3NjltNTUxOC00YmFhLWlwOGQtNzY5NDgxOGRjNGQ1%40thread.v2/0?context=%7b%22Tid%22%3a%22c631f90-6a65-4bb3-a626-c0f6f5790a9a%22%2c%22Oid%22%3a%22893d8643-114e-41f0-a0bb-bedacab9c525%22%7d

Meeting ID: 477 208 473 76

Passcode: ZxhNhL

- 7.0** NTPC reserves the right to reject any or all bids or cancel/ withdraw the Invitation for Bids without assigning any reason whatsoever and in such case no Bidder / intending Bidder shall have any claim arising out of such action.
- 8.0** A complete set of Bidding Documents may be downloaded by any interested Bidder from the website <https://gem.gov.in>.The tender is invited under e-tendering process.
- 9.0** Issuance of Bidding Documents to any bidder shall not construe that such Bidder is considered to be qualified.
- 10.0** **Address for communication:**

Shipra Kumari/ Neeraj Kumar
Manager (CS)/AGM (CS)
NTPC Limited
Plot A-8A, Sector 24, Noida-
201301 State of U.P. India
Phone Nos:0120-4946555,
4948616, 4946577

E-mail: shiprakumari@ntpc.co.in
neerajkumar02@ntpc.co.in

Criteria for Evaluation of Technical Bids for Selection of consultants for preparation of DPR of a Pumped Storage Project:

Table-1: Technical Evaluation criteria

Parameter	Evaluation Criteria	Marks (Max.)	Minimum qualifying marks	Minimum combined Technical qualifying Marks
Technical Criteria	A. Experience of Bidder and its capability related to the similar work within last twenty (20) years	40	24	70
	B. Qualifications and competence of the key Experts for the work.	60	36	

Note: In Technical Criteria, the Bidders scoring minimum 60% against each sub-head (A&B) and 70 out of 100 marks in total shall only be considered for further evaluation for the award of the work.

(A) Experience of Bidder and its capability related to the similar work within last twenty (20) years

Table- 2: Technical Evaluation Criteria-1 for Experience of Bidder related to similar work

Sl. No	Criteria	Max. Marks
1	Prepared Detailed Project Report of Similar Works as defined below	Maximum 40 marks
a)	≥ 400 MW	10 for each Project
b)	≥300 MW and less than 400 MW	9 for each Project
c)	≥200 MW and less than 300 MW	8 for each Project
d)	≥100 MW and less than 200 MW	7 for each Project

Notes:

- Similar work means:
Preparation of Detailed Project Report for Hydro Electric Project/pumped storage project having installed capacity of 100 MW or above either executed / under execution in India or abroad. The project under reference should have obtained Techno Economic Concurrence (TEC) from CEA in India or from Government designated body for Projects located outside India.

(For projects executed outside India, DPR shall mean preparation of 'Feasibility Study Report' as an equivalent and will be considered if it is substantiated that the scope performed by the Consultant matches requirements of DPR in India. In case of non-applicability/ non-availability of TEC or equivalent certificate from Government designated Authority, the Project under reference shall be

considered if the same is under construction or commissioned as on the date of bid opening based on the certificate issued by client/ developer of the project.)

2. The cut-off date for evaluating the experience criteria shall be prior to the date of bid opening.
3. The Bidder shall be liable to the information furnished thereof and should furnish supporting proofs if requested by NTPC.
4. Completion and work experience shall be evidenced by the Client's/ Developer of the project certificate clearly indicating scope of work/services with client reference. Any certificates issued other than said Client/ Developer of the project shall not be considered for evaluation. Further, Bidders shall submit the copies of all purchase orders/work orders/contract agreements along with the certificate from Client/ Developer in support of work experience for Technical Evaluation criteria.
5. The experience of applicants in rehabilitation / upgrading / maintenance works/ review of detailed design/DPR review work shall not be considered for evaluation.
6. If the Bidder is an Indian subsidiary company of a foreign company, the bidder shall be allowed to use the credential of their Parent/Holding Company and/or any Group companies for eligibility and technical evaluation. However, in that case an undertaking shall be submitted with the bid from Parent/Holding company confirming full support for the technical requirements of the Bidder and commit to take up the work itself in case of non-performance by the Bidder in the event of award of the work.

Group Companies shall come under same ultimate holding Company as that of the Parent Company.

(B) Qualifications and competence of the key Experts for the work.

Table- 3: Technical Evaluation criteria-2 for Key Experts (Maximum 60 marks)

Level	Criteria	Marks (for each expert)
Key Experts		
1	Post Graduate in Engineering (Civil/ Mechanical/ Electrical/ Geology), with Experience \geq 20 years in design and engineering of Hydro Power projects/ Pumped Storage projects including experience of 07 years in related field as mentioned in Note-4. or Graduate in Engineering (Civil/ Mechanical/ Electrical/ Geology), with Experience \geq 25 years in design and engineering of Hydro Power projects/ Pumped Storage projects including experience of 07 years in related field as mentioned in Note-4.	7.5
2	Graduate in Engineering (Civil/Mechanical/Electrical/Geology), with Experience \geq 20 years in design and engineering of Hydro Power projects/ Pumped Storage projects including experience of 07 years in related field as mentioned in Note-4	7.0

3	Graduate, Experience \geq 15 years in design and engineering of Hydro Power projects/ Pumped Storage projects including experience of 05 years in related field as mentioned in Note-4.	5.0
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Notes:

1. In case of Levels 1 Expert with qualification as Postgraduate, if total experience in design and engineering of hydro power projects / Pumped Storage Projects is less than 20 years but more than 12 years, the marks shall be awarded on pro-rata basis for the number of completed years. For Example:
 - If an expert has total experience of 14 years in detailed design and engineering of Hydro Power projects/ Pumped Storage projects including 7 years experience in related field, he will be awarded $(7.5 \times 14 / 20) = 5.25$ marks.
2. For level 3, if total experience in design and engineering of hydro power projects / Pumped Storage Projects is less than 15 years but more than 12 years, the marks shall be awarded on pro-rata basis for the number of completed years. Example:
 - If an expert has experience of 12 years in Hydro Power projects / Pumped Storage projects including 5 years' experience in related field, he will be awarded $(5 \times 12 / 15) = 4$ marks.
3. Expert having total experience less than 12 years or less than 5 years experience in related field shall not be considered. Further, expert with experience of more than 5 years but less than 7 years in related field shall be considered under level 3.
4. The key experts may be in the following fields:
 - i. Dam Design Expert.
 - ii. Underground structure (Tunnel/Power House/Other Structures) Design Expert.
 - iii. Geologist
 - iv. Geotechnical Expert
 - v. Geophysical Expert
 - vi. Hydraulics Design Engineer
 - vii. Hydrology Expert
 - viii. Structural Design Expert
 - ix. Hydro Mechanical Design Expert
 - x. Electro-Mechanical Design Expert
 - xi. Mechanical Design Expert
 - xii. Hydro Project Execution Expert.
 - xiii. Construction Planning and Scheduling Expert
 - xiv. Electrical (Generation/ Transmission) Expert.
 - xv. Financial/Economic Analyst
 - xvi. BoQ/ Cost Engineer.
5. For Hydro Project Execution Expert, work experience in preparation of DPR/ execution of Hydro power projects/ Pumped storage projects shall be considered as total/ related field experience.
6. The Bidders shall submit details of experts available with them against the specialization/fields indicated above. An expert proposed under one level in a particular field shall not be considered for evaluation against any other level in same field. Following experts are mandatorily required and shall be considered for evaluation. Any proposal without these seven shall be summarily rejected.
 - i. Dam Design Expert
 - ii. Underground structure (Tunnel/Power House/Other Structures) Design Expert
 - iii. Geology Expert
 - iv. Hydrology Expert

- v. Hydraulics Design Engineer
- vi. Structural Design Expert
- vii. Electro-Mechanical Design Expert.

7. Total 8 key experts shall be considered for evaluation. Apart from above 7 mandatory experts, bidder has to propose 8th expert to be considered for evaluation under criteria - 2.
8. Only experts on the regular pay rolls of the Bidder or on employment for a period of 1(one) year or more in India shall be considered. In this regard, both the expert and the Bidder shall give undertaking that he/she shall continue in the assignment for at least 1(one) year from the date of bid submission.
9. If an expert is working in India and has been associated with foreign assignment, the same shall be considered.
10. Credentials of each of the proposed experts shall be evaluated based on the evaluation criteria given above in **Table-3**. The Table lists the maximum marks that will be awarded on meeting the prescribed qualifications for experts.
11. The Bidder must submit Curricula Vitae (CV) of key experts clearly mentioning nationality, qualifications, general experiences and specific experiences as per the format provided in the Bid. The experience acquired only after Bachelor's degree (or equivalent to Bachelor's degree) in related field of the experts shall only be counted for evaluation. Total and related field experience of the expert to be clearly mentioned year-wise in CV for each project. These details shall be accompanied by a Certificate, to the effect that the information provided in the CVs is true & correct and issued by the Key Managerial Personnel (KMP) of the company i.e. CEO/Managing Director/Company Secretary/Director /CFO/any other officer entrusted with substantial powers of the management of the affairs of the Bidder.
12. If the references are other than in English languages, then the Bidder shall submit its attested English translated copies from an authorized translators.

Qualifying Requirements for selection of Consultant for DPR preparation works of Kumbhe PSP (1000 MW)

The Bidder should meet the qualifying requirements stipulated under clause 1.0, 2.0 and 3.0 together with the requirements stipulated under section ITB.

1.0 Technical Qualifying requirements:

Bidder should be a registered Indian Company and should have experience of completion of Detailed Project Report of at least one hydroelectric project/ Pumped Storage Project of atleast 100 MW installed capacity within last fifteen (15) years prior to the date of bid opening.

Notes :

- i. The completed DPR of the projects by the bidder may be in India or abroad by its parent company. Completion of DPR means issuance of Techno-Economic Clearance (TEC) by CEA in India or equivalent certification by Govt. designated Authority for Projects located abroad. For works executed abroad, DPR means "Feasibility Report" as an equivalent.
- ii. If the Bidder is the subsidiary company of a foreign company and applies for the qualification on the technical and financial strength of the parent/holding company, the same shall also be considered. However, in that case, an undertaking shall be submitted by parent or holding company confirming full support for the technical and financial requirement of the subsidiary company and commit to take up the work itself in case of non-performance by the subsidiary company in the event of award of work to the subsidiary company. Such undertaking (as per the format enclosed in the bid documents) shall be supported by the parent/holding Company's Board Resolution.

2.0 Financial Qualifying Requirements:

a) Average Annual Turnover (AAT):

The average annual turnover of the bidder in the preceding three financial years as on the date of bid opening shall not be less than Rs 17.04 Crores.

In case the bidder does not satisfy the average annual turnover criteria, stipulated above on its own, its Holding Company would be required to meet the stipulated turnover requirements as above, provided that the net worth of such Holding Company as on the last day of the preceding financial year is at least equal to or more than the paid-up share capital of the Holding Company. In such an event, the bidder would be required to furnish along with its bid, a Letter of Undertaking from the Holding Company, supported by the Holding Company's Board Resolution as per the format enclosed in the bid documents, pledging unconditional and irrevocable financial support for the execution of the Contract by the Bidder in case of award.

b) Net worth

The Net Worth of the bidder as on the last day of the preceding financial year should not be less than 100% (hundred percent) of its paid-up share capital. In case the Bidder does not satisfy the Net Worth criteria on its own, it can meet the requirement of Net worth based on the strength of its Subsidiary (ies) and/or Holding Company and/or Subsidiaries of its Holding companies wherever applicable.

In such a case, however, the Net worth of the Bidder and its subsidiary (ies) and/or Holding Company and/or subsidiary (ies) of the Holding Company, in combined manner should not be less than 100% (hundred percent) of their total paid-up share capital. However individually, their Net worth should not be less than 75% (seventy five percent) of their respective paid- up share capitals.

Net worth in combined manner shall be calculated as follows: $\text{Net worth (combined)} = \frac{(X1+X2+X3)}{(Y1+Y2+Y3)} \times 100$

Where X1, X2, X3 are individual Net worth which should not be less than 75% of the respective paid up share capitals and Y1, Y2, Y3 are individual paid up share capitals.

- c) In case the bidder is not able to furnish its audited financial statements on standalone entity basis, the unaudited unconsolidated financial statements of the bidder can be considered acceptable provided the bidder further furnishes the following documents for substantiation of its qualification:
- i. Copies of the unaudited unconsolidated financial statements of the bidder along with copies of the audited consolidated financial statements of its Holding Company.
 - ii. A Certificate from the CEO/CFO of the Holding Company, as per the format enclosed in the bidding documents, stating that the unaudited unconsolidated financial statements form part of the consolidated annual financial statements of the Holding Company.

Notes:

- i. While computing the turnover other income shall not be considered.
- ii. Net worth means the sum total of the paid-up share capital and free reserves. Free reserve means all reserves credited out of the profits and share premium account but does not include reserves credited out of the revaluation of the assets, write back of depreciation provision and amalgamation. Further any debit balance of Profit and Loss account and miscellaneous expenses to the extent not adjusted or written off, if any, shall be reduced from reserves and surplus.
- iii. In case, where audited results for the last financial year as on the date of bid opening are not available, the financial results certified by a practicing Chartered Accountant shall be considered acceptable. In case, Bidder is not able to submit the certificate from practicing Chartered Accountant certifying its financial parameters, the audited results of three consecutive financial years preceding the last financial year shall be considered for evaluating the financial parameters. Further, a certificate would be required from the CEO/CFO as per the format enclosed in the bidding documents stating that the financial results of the company are under audit as on the date of bid opening and the certificate from the practicing Chartered Accountant certifying the financial parameters is not available.
- iv. "Holding Company and "Subsidiary Company" shall have the meaning ascribed to them as per Companies Act of India.
- v. For Annual Turnover indicated in foreign currency, the exchange rate as on seven (7) days prior to the date of bid opening shall be used.

3.0 Document to be submitted by Vendor in support of meeting QR:

- i. Completion and work experience evidenced by the Client's certificate clearly indicating scope of work/services with client reference.
- ii. Complete Audited Annual Reports along with Audited Balance Sheets, Profit and Loss Account & detailed Schedule and other financial statements for immediately preceding 3(three) financial years.