

DETAILED INVITATION FOR BID

**NTPC Limited
(A Government of India Enterprise)**

CONTRACTS SERVICES - RE

INVITATION FOR BIDS (IFB)

FOR

**GREEN HYDROGEN FUEL CELL LOCOMOTIVE (S)
FOR OPERATION AT THE MGR OF NTPC SIPAT**

(Domestic Competitive Bidding)

BIDDING DOCUMENT No.: CS-5858-GreenH2LOCO-9

Date: 21.06.2024

1.0 NTPC Limited invites **online bids** on **Single Stage Two Envelope bidding basis (Envelope-I: Techno-Commercial Bid & Envelope-II: Price Bid)** from eligible bidders for aforesaid package, as per the Scope of Work briefly mentioned hereinafter.

2.0 BRIEF SCOPE OF WORK

Scope of work covers basic design of retro fitment into the old locomotive / designing new locomotive, detailed engineering, procurement, fabrication, inspection, packing, forwarding, supply of materials, transportation and handling, custom duty (and any other duties as applicable), freight, insurance, unloading, storage, commissioning, testing, PG test, training including 20 years of maintenance works of all systems on turnkey basis.

3.0 Employer intends to finance the subject package through Domestic/ Own Resources.

4.0 Detailed specification, scope of work and terms & conditions are given in the bidding documents, which are available at Government e-procurement portal of NIC (GePNIC) at website- <https://eprocurementpc.nic.in/> and as per the following schedule:

Issuance of IFB	21.06.2024
Documents Download Date and Time	From 02.07.2024
Pre-Bid Conference date & time	16.07.2024 from 1100 hrs (IST)
Last Date of receipt of queries from prospective bidders	16.07.2024
Last Date and Time for Bid submission (both Techno-Commercial and Price)	Up to 1500 hrs (IST) on 30.07.2024

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Techno-Commercial Bid Opening Date & Time	31.07.2024 at 1500 hrs (IST)
Price Bid Opening Date & Time	Shall be intimated after opening of Techno- Commercial Bid
Cost of Bidding Documents in INR	INR 22,500/- (Indian Rupees Twenty-Two Thousand Five hundred only)

No Queries from Bidders, whatsoever, shall be entertained by the Employer beyond the last date of receipt of Queries/ Pre-Bid Conference (if applicable) as specified above.

- 5.0 All bids must be accompanied by Bid security for amount as specified below, in the form as stipulated in Bidding Documents:

Bidder's participation	Bid Security value
Only for Retro-fitting of old Locomotive	INR 50 Lacs
Only for New Locomotive	INR 50 Lacs
For both Retro-fitting of old Locomotive and New Locomotive	INR 1 Crore

ANY BID NOT ACCOMPANIED BY AN ACCEPTABLE BID SECURITY IN A SEPARATE SEALED ENVELOPE SHALL BE REJECTED BY THE EMPLOYER AS BEING NON-RESPONSIVE AND SHALL NOT BE OPENED. 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 E-TENDERING PORTAL.

- 5.1 Acceptable Tender Fee payment proof shall be uploaded by all the bidder in the "Fee Cover" at the GePNIC Portal.
- 6.0 **Qualifying Requirements for Bidders:**
Qualifying Requirement (QR) for subject package is attached as **Annexure-I to IFB**.
- 7.0 Notwithstanding anything stated above, NTPC reserves the right to assess the capabilities and capacity of the Bidder/ his collaborators / associates/ subsidiaries/ group companies to perform the contract, should the circumstances warrant such assessment in the overall interest of the Employer.
- 8.0 NTPC reserves the right to reject any or all bids or cancel/withdraw the Invitation for Bids (IFB) without assigning any reason whatsoever and in such case no bidder / intending bidder shall have any claim arising out of such action.
- 9.0 A complete set of Bidding Documents may be downloaded by any interested Bidder from the website <https://eprocurmentpc.nic.in/>. The tender is invited under e-tendering process. The bidders can enroll themselves on the website <https://eprocurmentpc.nic.in/> using the option "online Bidder Enrolment". The said website also has the detailed guidelines on

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enrollment and participation in the bidding process including Bidder Manual for online fee payment.

10.0 'Class-I local suppliers' and 'Class-II 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.

11.0 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.

12.0 Issuance of Bidding Documents to any Bidder shall not construe that such Bidder is considered to be qualified.

13.0 Transfer of Bidding Documents by one intending Bidder to another is not permissible.

14.0 Address for Communication:

Addl. General Manager (CS) / Senior Manager (CS)

Contracts Services
NTPC Limited,
Renewable Energy,
4th Floor, NETRA Building
E-3, Ecotech-II, Udyog Vihar, Greater Noida
Gautam Buddha Nagar, Uttar Pradesh, India, Pin – 201306

Tel. No.: +91-9650997390, +91- 9427110744

E-mail: rchaudhury@ntpc.co.in / hemants@ntpc.co.in

Websites: <https://eprocurementpc.nic.in/> or

www.ntpc.tender.ntpc.co.in or

www.ntpc.co.in

15.0 Registered Office of Employer

NTPC Limited
NTPC Bhawan, SCOPE Complex,

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7, Institutional Area, Lodi Road,
New Delhi – 110003

Corporate Identification Number: L40101DL1975GOI007966,
Website: www.ntpc.co.in

Approved Qualifying Requirements for Development and Supply of Hydrogen Locomotive (s)

In addition to the requirements stipulated under section Instructions to Bidder (ITB), the Bidder should also meet the qualifying requirements stipulated hereunder in clause 1.0 and clause 2.0 asbelow:

1.0 Technical Criteria

- 1.1 The bidder should have designed/ engineered, manufactured/got manufactured, supplied and commissioned/supervised commissioning new or retrofitted locomotive or self-propelled carriage on rail tracks and operated with diesel/electric/any gaseous fuel (natural gas, hydrogen etc.) in a single contract within the preceding five (5) years prior to the date of Techno-Commercial bid opening.

The systems mentioned above should have been in operation for at least six (6) months prior to the date of techno commercial bid opening.

NOTES:

- (i) The bidder can also participate along with Collaborator(s) / Associate(s) provided the Collaborator(s) / Associate(s) should meet the criteria at Clause 1.1 above. In such a case, the bidder should be manufacturer of propulsion system of the locomotive or self-propelled carriage on rail tracks or have track record of certification & homologation of new/ retrofitted locomotive. Here propulsion system means Vehicle Control Unit / Train control & monitoring system and Traction Converter. The Bidder shall be registered in India under the companies Act of India as on the date of the techno-commercial bid opening.
- (ii) In such an event, the Bidder along with its techno-commercial bid, shall furnish a letter of undertaking for performance of the contract, from above Collaborator(s)/ Associate(s), as per format enclosed in the bidding documents, failing which the bidder shall be disqualified and its bid shall be rejected.

2.0 Financial Criteria**2.1 Financial Criteria for the Bidder**

- 2.1.1 The average annual turnover of the Bidder, in the preceding three (3) financial years as on the date of techno-commercial bid opening, should not be less than:
- For the case of only a single retrofitted hydrogen locomotive, the amount is ₹ **11.68 Crores (Indian Rupees Eleven crores sixty eight lacs only)**
 - For the case of only a single new hydrogen locomotive, the amount is ₹ **14.12 Crores (Indian Rupees Fourteen crores twelve lacs only)**
 - For the case of a single retrofitted hydrogen locomotive and a new hydrogen locomotive. It amounts to ₹ **25.80 Crores (Indian Rupees Twenty-five crores eighty lacs only).**

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.

- 2.1.2 The Net Worth of the Bidder should not be less than 100% of the Bidder's paid up share capital as on the last day of the preceding financial year. In case the Bidder meets the requirement of Net Worth based on the strength of its Subsidiary(ies) and/or Holding Company and/or Subsidiaries of its Holding Company wherever applicable, the Net Worth of the Bidder and its Subsidiary(ies) and/or Holding Company, in combined manner should not be less than 100% of their total paid up share capital. However, individually, their Net Worth should not be less than 75% of their respective paid-up share capital.

Net worth in combined manner shall be calculated as follows:

Net worth (combined) = $(X1+X2+X3) / (Y1+Y2+Y3) \times 100\%$ 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.

- 2.1.3 In case the Bidder is not able to furnish its audited financial statements on standalone entity basis, the un-audited unconsolidated financial statements of the Bidder can be considered acceptable provided the Bidder further furnishes the following documents for substantiation of its qualification:

- (a) Copies of the un-audited unconsolidated financial statements of the Bidder along with copies of the audited consolidated financial statements of its Holding Company.
- (b) A Certificate from the CEO/CFO of the Holding Company, as per the format enclosed in the bidding documents, stating that the un-audited unconsolidated financial statements form part of the Consolidated Annual Report of the Company.

In cases where audited results for the last preceding financial year as on the date of opening of Techno-commercial bid are not available, certification of financial statements from a practicing Chartered Accountant shall also 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 Techno-commercial bid opening and the Certificate from the practicing Chartered Accountant certifying the financial parameters is not available.

2.2 Financial Criteria for the Collaborator(s) / Associate(s)

2.2.1 The average annual turnover of the Collaborator(s) / Associate(s), in the preceding three (3) financial years as on the date of techno-commercial bid opening, should not be less than:

- a) For the case of only a single retrofitted hydrogen locomotive, the amount is ₹ **1.17 Crores (Indian Rupees One crore seventeen lacs only)**
- b) For the case of only a single new hydrogen locomotive, the amount is ₹ **1.41 Crores (Indian Rupees One crore forty-one lacs only)**
- c) For the case of a single retrofitted hydrogen locomotive and a new hydrogen locomotive. It amounts to ₹ **2.58 Crores (Indian Rupees Two crores fifty-eight lacs only).**

In case the Collaborator(s) / Associate(s) 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 Collaborator(s) / Associate(s) would be required to furnish along with bidder's Techno-Commercial 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 by the Collaborator/Associate to honour the terms and conditions of the Deed of Joint Undertaking in case of award of the Contract to the Bidder with whom Collaborator/Associate is associated.

2.2.2 The Net Worth of the Collaborator(s) / Associate(s) should not be less than 100% of the Collaborator(s) / Associate(s) 's paid share capital as on the last day of the preceding financial year. In case the Collaborator(s) / Associate(s) meets the requirement of Net Worth based on the strength of its Subsidiary(ies) and/or Holding Company and/or Subsidiaries of its Holding Company wherever applicable, the Net Worth of the Collaborator(s) / Associate(s) and its Subsidiary(ies) and/or Holding Company, in combined manner should not be less than 100% of their total paid up share capital. However, individually, their Net Worth should not be less than 75% of their respective paid-up share capital.

Net worth in combined manner shall be calculated as follows:

Net worth (combined) = $(X1+X2+X3) / (Y1+Y2+Y3) \times 100\%$ 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.

2.2.3 In case the Collaborator(s) / Associate(s) is not able to furnish its audited financial statements on standalone entity basis, the un-audited unconsolidated financial statements of the Collaborator(s) / Associate(s) can be considered acceptable provided the Collaborator(s) / Associate(s) further furnishes the following documents for substantiation of its qualification:

- (c) Copies of the un-audited unconsolidated financial statements of the Collaborator(s) / Associate(s) alongwith copies of the audited consolidated financial statements of its Holding Company.
- (d) A Certificate from the CEO/CFO of the Holding Company, as per the format enclosed in the bidding documents, stating that the un- audited unconsolidated financial statements form part of the Consolidated Annual Report of the Company.

In cases where audited results for the last preceding financial year as on the date of opening of Techno-commercial bid are not available, certification of financial statements from a practicing Chartered Accountant shall also be considered acceptable. In case, Collaborator(s) / Associate(s) 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 Techno-commercial bid opening and the Certificate from the practicing Chartered Accountant certifying the financial parameters is not available.

NOTES:

- (i) Net Worth means the sum total of the paid-up share capital and free reserves. Free reserves mean all reserves credited out of the profits and share premium account but does not include reserves credited out of the revaluation of assets, write back of depreciation provisions and amalgamation. Further, any debit balance of Profit & Loss account and miscellaneous expenses to the extent not adjusted or written off, if any, shall be reduced from Reserves & Surplus.
- (ii) Other income shall not be considered for arriving at annual turnover.
- (iii) "Holding Company" and "Subsidiary Company" shall have the meaning ascribed to them as per Companies Act of India.
- (iv) For annual Turnover indicated in foreign currency, the exchange rate as on seven (7) days prior to the date of Techno-Commercial bid opening shall be used.