

**NTPC Limited**  
**(A Government of India Enterprise)**  
**(CORPORATE CONTRACTS, NOIDA)**  
**INVITATION FOR BIDS (IFB)**  
**FOR**

**Supply, Installation, Commissioning and Integration of VRFB (Vanadium Redox Flow Battery)**  
**Storage System of 600kw/3000kwhr at NETRA, NTPC Greater Noida**

**(Domestic Competitive Bidding)**

**GEPNIC Tender Ref. No: 2024\_NTPC\_87846\_1**

**Date: 14.06.2024**

**Bidding Document No: CS-0011-004L-9**

**1.0** NTPC invites on-line bids at Government e-procurement portal of NIC (GePNIC) at address <https://eprocurrentpc.nic.in/> on **Single Stage Two Envelope Basis (i.e. Envelope-I: Techno-Commercial Bid and 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**

Design and detailed engineering, Procurement, Fabrication, Supply, Packing, Loading, Forwarding, Transportation, Unloading, Storage, Preservation, Freight, Insurance, Clearances, Custom or any other duty, Construction, Erection, Commissioning, Shop, Field Quality Tests and PG Test of plant and O&M of the plant at NTPC-NETRA.

The detailed scope of work shall be as per specification and scope defined in the Bidding Document.

**3.0** NTPC intends to finance the aforesaid Package through Domestic Funds / Own Resources.

**4.0** Detailed specification, scope of work and terms & conditions are given in the Bidding Documents, which are available at the GeM (e-tender) portal at <https://gem.gov.in/>. The Bidding Schedule\* for the Tender is as under:

Issuance of IFB	14-06-2024
Documents Download Dates and Time	From 14-06-2024
Pre Bid Conference date & time	25-06-2024 at 1030 hrs (IST) at NTPC Netra
Last date for receipt of queries from bidders (if any)**	26-06-2024
Bid (both Techno-Commercial and Price) receipt date & time	Up to 1500 hrs (IST) on 08.07.2024
Date & Time for opening of Techno-Commercial bid	09-07-2024 at 1500 Hrs (IST)
Date & Time for submission and opening of Price bid	Shall be intimated after opening of Techno-Commercial Bid.
Cost of Bidding Documents in INR	5625/-

**\*Bidders are advised to visit the GePNIC (e-tender) portal of NTPC for updated bidding schedule of the Tender.**

\*\*It is to be noted that “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 at GePNIC portal of NTPC”.

- 5.0** All bids must be accompanied by Bid Security for an amount of **INR 20,00,000/- (Indian Rupees Twenty Lakh only)** in the form as stipulated in the Bidding Documents.

***ANY BID NOT ACCOMPANIED BY AN ACCEPTABLE BID SECURITY SHALL BE REJECTED BY THE EMPLOYER AS BEING NON-RESPONSIVE AND SHALL NOT BE OPENED.***

- 6.0** A complete set of Bidding Documents may be downloaded by any interested Bidder from the e-Tender Portal as per specified schedule. The tender is invited under e-tendering process. The bidders can enroll themselves on Government e-procurement portal of NIC (GePNIC) at address <https://eprocurementpc.nic.in/> (e-Tender Portal). The use of Digital Signature Certificate (DSC) Class-3 key is mandatory for e-tendering activities. Accordingly, bidders should have Digital Signature Certificate (DSC) key of Class 3 to participate in e-tendering. Bidders, if required, can obtain DSC Class-3 key from agencies authorized by Govt. of India. The e-Tender Portal also has the user manuals with detailed guidelines on enrolment and participation in the bidding process.

**No hard copy of Bidding Documents shall be issued. Bids shall be submitted ONLY at the e-Tender Portal i.e. Government e-procurement portal of NIC (GePNIC) at address <https://eprocurementpc.nic.in/> (e-Tender Portal).**

- 7.0** **Qualifying Requirements for Bidders:**

Qualifying Requirement (QR) for subject package is attached as **Annexure-I** to this IFB.

- 8.0** “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.”.

- 9.0** 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.

- 10.0** Transfer of Bidding Documents by one intending Bidder to another is not permissible.
- 11.0** Downloading/Issuance of Bidding Documents and /or submission of Bid shall not construe that bidder is considered qualified.
- 12.0** 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.

### **13.0 Address for Communication**

Sr. Manager (CS)/ AGM (CS)  
NTPC Limited  
Plot A-8A, Sector 24, Noida-201301  
State of U.P. India  
Contact: 6202628480/9650992301  
e-mail: lekrajsingh@ntpc.co.in / abhishekjain02@ntpc.co.in

Websites: [www.ntpctender.ntpc.co.in](http://www.ntpctender.ntpc.co.in) or [www.ntpc.co.in](http://www.ntpc.co.in)  
or <https://eprocurerntpc.nic.in/>

### **14.0 Registered Office**

NTPC Limited  
NTPC Bhawan, SCOPE Complex,  
7, Institutional Area, Lodi Road,  
New Delhi – 110003

Corporate Identification Number: L40101DL1975GOI007966,  
Website: [www.ntpc.co.in](http://www.ntpc.co.in)

## **Proposed Qualifying Requirements for “600kW/3000kWh of Vanadium Redox Flow Battery Energy Storage System”**

In addition to the requirements stipulated under section Instruction to bidder (ITB), the bidder should also meet the qualifying requirements stipulated hereunder.

### **1. TECHNICAL CRITERIA**

#### **1.1 Qualified manufacturers of VRFB System**

The bidder should have designed, engineered, manufactured/got manufactured, erected/got erected, commissioned VRFB Systems of cumulative capacity of 2400kWh in one or maximum 5 orders during last ten (10) years. At least one such reference project, having at least 400kWh capacity, should be in successful operation for at least 6 months prior to the date of techno-commercial bid opening.

OR

#### **1.2 EPC Route associated with Qualified manufacturers of VRFB System**

The bidder should have executed the “Grid-connected Solar PV” or “Off Grid Solar PV-BESS” Project on EPC basis during last ten (10) years, with a minimum value of one such project as ₹114 Million (INR One hundred Fourteen Million Only). The reference project should be in successful operation for at least 6 months prior to the date of techno-commercial bid opening.

AND

The bidder shall associate with “Qualified manufacturers of VRFB” who meets clause 1.1 above.

**1.3** The bidder, seeking qualification through Route 1.2 above, shall submit a letter of Undertaking from the associate for the “Qualified manufacturers of VRFB”, as per the format enclosed in the bidding documents, for the successful performance of the VRFB. The undertaking should be submitted along with the Techno-Commercial bid, failing which the Bidder shall be disqualified and its bid shall be rejected.

#### **Notes for Clause 1.0 Technical Criteria:**

In case the award for the reference work(s) has been received by the Bidder either directly from owner of plant or any other intermediary organization, a completion certificate from such owner of plant shall be furnished by the Bidder along with its techno-commercial bid in support of its claim of meeting requirement of QR.

If the Value of the reference works is in foreign currency, SBI Bill Selling exchange rate as on the date of award of the reference work shall be considered. In case the exchange rate as on the date of award is not available, the exchange rate as on the next available day shall be considered.

### **2. FINANCIAL CRITERIA**

**2.1** 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 ₹143 Million (Rupees One hundred forty three Million Only) or in equivalent foreign currency.

**2.2** In case a 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 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 for the execution of the Contract by the Bidder in case of award.

Net worth of bidder should not be less than 100% (hundred percent) of the bidder's paid up share capital as on the last day of the preceding financial year. In case the Bidder does not meet 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:

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.

**2.3** 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:

Copies of the unaudited unconsolidated financial statements of the Bidder along with copies of the audited consolidated financial statements of its Holding Company.

A Certificate from the CEO/CFO of the Holding Company, as per the format enclosed with the bidding documents, stating that the unaudited unconsolidated financial statements form part of the consolidated financial statements of the Holding Company.

In cases where audited results for the last financial year as on the date of Techno Commercial 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 a 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 for Clause 2.0 FINANCIAL CRITERIA:**

Net worth means the sum total of the paid-up share capital and free reserves. Free reserves means all reserves credited out of the profits and share premium account but do 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.

Other income shall not be considered for arriving at annual turnover.

"Holding Company" and "Subsidiary" shall have the meaning ascribed to them as per Companies Act of India.

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.



# NTPC Limited eProcurement

A Govt of India Undertaking



14-Jun-2024

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Tenders by Organisation

Tenders by Classification

Tenders in Archive

Tenders Status

Cancelled/Retendered

Debarment List

Downloads

Announcements

Awards

Site compatibility

## Tender Details

### Basic Details

<b>Organisation Chain</b>	NTPC Limited   Corporate Centre   Corporate Contracts		
<b>Tender Reference Number</b>	NTPC/EOC/9900282582		
<b>Tender ID</b>	2024_NTPC_87846_1	Withdrawal Allowed	Yes
<b>Tender Type</b>	Open Tender	Form Of Contract	Works
<b>Tender Category</b>	Works	No. of Covers	3
<b>General Technical Evaluation Allowed</b>	Yes [Compliance Required]	ItemWise Technical Evaluation Allowed	No
<b>Payment Mode</b>	Both(Online/Offline)	Is Multi Currency Allowed For BOQ	No
<b>Is Multi Currency Allowed For Fee</b>	No	Allow Two Stage Bidding	No

### Payment Instruments

Online Bankers	S.No	Bank Name
	1	SBI Bank

Offline	S.No	Instrument Type
	1	DD

### Covers Information, No. Of Covers - 3

Cover No	Cover Type	Description	Document Type
1	Fee	Tender Fee	.pdf
		Bid Security	.pdf
2	PreQual/Technical	Technical Commercial Bid	.pdf
		Attachment 3A1 for technical qualification	.pdf
		Attachment 3A2 for Financial qualification	.pdf
3	Finance	Price Bid	.xls
		Price Bid	.pdf



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#### Tender Fee Details, [Total Fee in ₹ - 5,625]

Tender Fee in ₹	5,625	Fee Payable At	Payable At New Delhi
Fee Payable To	NTPC Limited		
Tender Fee Exemption Allowed	No		

#### EMD Fee Details

EMD Amount in ₹	20,00,000	EMD Exemption Allowed	No
EMD Fee Type	fixed	EMD Percentage	NA
EMD Payable To	NTPC Limited	EMD Payable At	Payable At New Delhi
BG Required	Yes	Minimum Direct EMD Payment in ₹	0.00


#### Work Item Details

<b>Title</b>	<b>EPC Package for VRFB storage at NETRA</b>		
<b>Work Description</b>	<b>EPC Package for VRFB storage at NETRAAs per Bid Doc. No. CS-0011-004L-9</b>		
<b>NDA/Pre Qualification</b>	<b>As per tender documents</b>		
<b>Independent External Monitor/Remarks</b>	<b>Applicable As per tender documents</b>		
<b>Tender Value in ₹</b>	NA	<b>Product Category</b>	Miscellaneous Works
<b>Contract Type</b>	Tender	<b>Bid Validity(Days)</b>	120
<b>Location</b>	EOC Noida Office EOC, SECTOR-24, NOIDA 201301	<b>Pincode</b>	201301
<b>Pre Bid Meeting Address</b>	NETRA Greater Noida	<b>Pre Bid Meeting Date</b>	25-Jun-2024 10:00 AM
<b>Should Allow NDA Tender</b>	No	<b>Allow Preferential Bidder</b>	No
		<b>Sub category</b>	NA
		<b>Period Of Work(Days)</b>	365
		<b>Pre Bid Meeting Place</b>	NETRA Greater Noida
		<b>Bid Opening Place</b>	EOC Noida Office



#### Critical Dates

<b>Published Date</b>	14-Jun-2024 06:30 PM	<b>Bid Opening Date</b>	09-Jul-2024 03:00 PM
<b>Document Download / Sale Start Date</b>	14-Jun-2024 06:45 PM	<b>Document Download / Sale End Date</b>	08-Jul-2024 03:00 PM
<b>Clarification Start Date</b>	14-Jun-2024 06:55 PM	<b>Clarification End Date</b>	26-Jun-2024 06:00 PM
<b>Bid Submission Start Date</b>	01-Jul-2024 12:00 PM	<b>Bid Submission End Date</b>	08-Jul-2024 03:00 PM

## Tenders Documents

NIT Document				
S.No	Document Name	Description	Document Size (in KB)	
1	Tendernotice_1.pdf 	IFB	204.59	

Work Item Documents				
S.No	Document Type	Document Name	Description	Document Size (in KB)
1	Tender Documents	Bidding_Documents.pdf 	Tender Document	32201.17
2	BOQ	BOQ_91036.xls 	Price Bid BOQ	401.00

## Tender Inviting Authority

<b>Name</b>	NTPC Ltd
<b>Address</b>	EOC Noida Office EOC, SECTOR-24, NOIDA 201301

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**Visitor No:2015746**

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 Site best viewed in IE 10 and above, with a screen resolution 1024 x 768.

[Portal policies](#)





**NTPC**  
Tenders

A Maharatna Company

## NTPC Limited eProcurement Portal

## Tender Details

Date : 14-Jun-2024 06:41 PM

**Basic Details**

<b>Organisation Chain</b>	NTPC Limited  Corporate Centre  Corporate Contracts		
<b>Tender Reference Number</b>	NTPC/EOC/9900282582		
<b>Tender ID</b>	2024_NTPC_87846_1	<b>Withdrawal Allowed</b>	Yes
<b>Tender Type</b>	Open Tender	<b>Form of contract</b>	Works
<b>Tender Category</b>	Works	<b>No. of Covers</b>	3
<b>General Technical Evaluation Allowed</b>	Yes [Compliance Required]	<b>ItemWise Technical Evaluation Allowed</b>	No
<b>Payment Mode</b>	Both(Online/Offline)	<b>Is Multi Currency Allowed For BOQ</b>	No
<b>Is Multi Currency Allowed For Fee</b>	No	<b>Allow Two Stage Bidding</b>	No

**Payment Instruments**

Online Bankers	S.No	Bank Name
	1	SBI Bank

Offline	S.No	Instrument Type
	1	DD

**Cover Details, No. Of Covers - 3**

Cover No	Cover	Document Type	Description
1	Fee	.pdf	Tender Fee
		.pdf	Bid Security
2	PreQual/Technical	.pdf	Technical Commercial Bid
		.pdf	Attachment 3A1 for technical qualification
		.pdf	Attachment 3A2 for Financial qualification
3	Finance	.xls	Price Bid
		.pdf	Price Bid Attachment

**Tender Fee Details, [Total Fee in ₹ \* - 5,625]**

<b>Tender Fee in ₹</b>	5,625		
<b>Fee Payable To</b>	NTPC Limited	<b>Fee Payable At</b>	Payable At New Delhi
<b>Tender Fee Exemption Allowed</b>	No		

**EMD Fee Details**

<b>EMD Amount in ₹</b>	20,00,000	<b>EMD Exemption Allowed</b>	No
<b>EMD Fee Type</b>	fixed	<b>EMD Percentage</b>	NA
<b>EMD Payable To</b>	NTPC Limited	<b>EMD Payable At</b>	Payable At New Delhi
<b>BG Required</b>	Yes	<b>Minimum Direct EMD Payment in ₹</b>	0.00

**Work /Item(s)**

<b>Title</b>	EPC Package for VRFB storage at NETRA
--------------	---------------------------------------

<b>Work Description</b>	EPC Package for VRFB storage at NETRAAs per Bid Doc. No. CS-0011-004L-9				
<b>Pre Qualification Details</b>	As per tender documents				
<b>Independent External Monitor/Remarks</b>	Applicable As per tender documents				
<b>Tender Value in ₹</b>	NA	<b>Product Category</b>	Miscellaneous Works	<b>Sub category</b>	NA
<b>Contract Type</b>	Tender	<b>Bid Validity(Days)</b>	120	<b>Period Of Work(Days)</b>	365
<b>Location</b>	EOC Noida Office EOC, SECTOR-24, NOIDA 201301	<b>Pincode</b>	201301	<b>Pre Bid Meeting Place</b>	NETRA Greater Noida
<b>Pre Bid Meeting Address</b>	NETRA Greater Noida	<b>Pre Bid Meeting Date</b>	25-Jun-2024 10:00 AM	<b>Bid Opening Place</b>	EOC Noida Office
<b>Should Allow NDA Tender</b>	No	<b>Allow Preferential Bidder</b>	No		

**Critical Dates**

<b>Publish Date</b>	14-Jun-2024 06:30 PM	<b>Bid Opening Date</b>	09-Jul-2024 03:00 PM
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**Tender Documents**

NIT Document	S.No	Document Name	Description	Document Size (in KB)
	1	Tendernotice_1.pdf	IFB	204.59

Work Item Documents	S.No	Document Type	Document Name	Description	Document Size (in KB)
	1	Tender Documents	Bidding_Documents.pdf	Tender Document	32201.17
	2	BOQ	BOQ_91036.xls	Price Bid BOQ	401.00

**View GTE Details - CS Common-1**

S.No	Particulars	Expected Value	Mandatory
1.0	Do you accept the Fraud Prevention Policy of NTPC	Yes	Yes
2.0	Do You certify full compliance of Integrity Pact	Yes	Yes
3.0	Do you certify full compliance on clause as per tender documents on Restrictions on procurement from a Bidder of a country which shares a land border with India	Yes	Yes
4.0	Do you certify full compliance on Qualifying Requirements	Yes	Yes
5.0	Do you certify full compliance to all provisions of Bid documents	Yes	Yes

**Tender Inviting Authority**

<b>Name</b>	NTPC Ltd
<b>Address</b>	EOC Noida Office EOC, SECTOR-24, NOIDA 201301

