

NTPC Tamilnadu Energy Company Limited
Vallur Thermal Power Project

PO: Vellivoyal Chavadi, Ponneri Taluk, Dist :Thiruvallur, Chennai – 600 103

Tel. No.044 - 27995838 Fax: 044 - 27966033 / 27966065

NOTICE INVITING TENDER (NIT)

(Domestic Competitive Bidding)

SECTION - I

Ref. NTECL/C&M/CS-3492

Dt: 09.01.2019

NTPC Tamilnadu Energy Company Limited (NTECL), a JV of NTPC & TANGEDCO invites sealed bids for its **2 X 500 MW + 1 X 500 MW** Thermal Power Project at Vellivoyal Chavadi Post, Ponneri Taluk, Thiruvallur Distt., Chennai, Tamilnadu from eligible bidders who fulfill the Qualifying Requirements stipulated below, for the following package:

Description of work	Bid Security (EMD)	Contract period
Supply and application of RTV silicone high voltage insulator coating in 400kv Switchyard	Rs. 50,000/-	18 (Eighteen) Months

BRIEF SCOPE OF WORK:

The scope of the subject package envisages “**Supply and application of RTV silicone high voltage insulator coating in 400kv Switchyard at NTECL**”.

QUALIFYING REQUIREMENTS:

(a)	The average annual turnover of the bidder in the last 03 financial years ending 31/03/2018 should not be less than Rs.34.38 Lakhs.
(b)	<ol style="list-style-type: none">1. The bidder should be a manufacturer or authorized dealer of the manufacturer of RTV silicon high voltage insulator coating material.2. The bidder should have supplied and applied (application by the bidder or his authorized applicator) RTV silicon high voltage insulator coating material suitable for 220kv or above Transmission Systems in India in preceding 5 years.<ol style="list-style-type: none">a. The bidder must have executed,<ol style="list-style-type: none">(i) Single (01) order, of executed value not less than Rs. 27.50 Lakhs<li style="text-align: center;">OR(ii) Two (02) orders, each of executed value not less than Rs. 17.19 Lakhs<li style="text-align: center;">OR(iii) Three (03) orders, each of executed value not less than Rs. 13.75 Lakhs3. The bidder shall have Point of Presence/set up in India for any after sales service of the offered RTV silicon high voltage insulator coating material.

(c)	The bidder/applicator should have Provident Fund code (PF code) number allotted by concerned Regional Provident Fund Authority
(d)	The bidder/applicator should have GSTIN number / provisional registration number issued by concerned authorities

Note :- The work “executed” means that the bidder should have achieved the progress specified in the QR even if the total contract is not completed / closed. The same shall be supported by documentary evidence issued by concerned authority.

Also the bidder/s should have the following and should submit copy of these documents along with QR Documents (in Envelope - I) as statutory requirement:

- (i) Employees State Insurance Code (ESI Code) as having registered with ESI authorities. If the same is not available, then the bidder should register with concerned authorities before the commencement of contract.
- (ii) Income Tax Permanent Account Number (PAN).

TECHNICAL REQUIREMENTS

Bidder shall clearly indicate compliance against each point in the technical specification as given below. The compliance shall be evaluated by NTECL for qualifying the bidders against the Technical Requirements.

(A) Technical Requirements of the Coating Material

SI No	NTECL Specification	Agency's Compliance
1	The offered product should not get affected by UV light, corona discharge, chemical contaminants, salt, extreme temperatures or corrosive environments at least during the warranty period.	
2	The product type shall be one part RTV (Room temperature vulcanizing) silicon rubber insulator coating to suppress leakage current, thereby preventing power outages due to contamination in the severely polluted switchyard porcelain and glass insulators.	
3	Product must contain Alumina Tri-Hydrate (ATH) or Quartz or Both for imparting tracking and erosion resistance to RTV coating.	
4	The hydrophobicity of virgin sample of the product shall be HC1.	
5	The product shall recover hydrophobicity to HC2 or better within 48 hours after being subjected to corona test as per REC76/2006 specifications.	
6	Product must not develop tracking marks longer than 100 milli meters till completion of expected life.	
7	Product must never erode in areas greater than 500 sqmm.	
8	Product must not peel or chalk; product must not crack or craze; product must not blister or bubble.	
9	Product must have strong adhesion to porcelain, glass or non-ceramic insulators.	
10	Product must NOT require use of primers in order to achieve adhesion.	
11	Application must be performed by adequately trained and certified applicator of the supplier.	
12	Product must eliminate appreciable leakage current over the long term : the performance characteristic will be verified through a) The elimination of audible noise due to surfaces discharges b) The elimination of visible discharges (under nightfall)	
13	The verification given in sl no: 12 will be done jointly with vendor representative immediately and after one year of application of coating. Subsequent inspections shall be based on mutually agreed frequency between bidder and NTECL depending on NTECL requirement. No separate payment shall be made by NTECL towards such visits by vendor for above verification.	

(B) TYPE TESTS

SI No	Specification	Agency's Compliance
1	The RTV coating offered should have been type tested in reputed international / Indian test laboratories and test reports shall be submitted for the following tests along with the offer.	
2	Accelerated ageing test on RTV coating in accordance with IEC – 61109.	
3	Inclined plane tracking and erosion test report in accordance with IEC – 60587 on RTV coating	
4	Artificial pollution test by Salt – Fog method on a 132 / 220 / 440 kV String consisting coated insulator as per IEC 60507.	
5	Hydrophobicity recovery by corona test in accordance with REC76/2006	
6	Volume resistivity test.	
7	The type test reports shall not be more than 10 years old as on date of bidding.	

(C) Technical Requirements of Silicon coating

SI No	Specification	Agency's Compliance
1	Surface preparation of the insulators has to done before application of coating to make them free from dirt, oil grease and foreign matter etc and making them dry before the application of RTV HVIC coating on the insulator surfaces as per the application procedure of the HVIC Manufacturer. The entire insulator shall be coated with a minimum 0.5 mm dry thickness of silicon coating material.	
2	The coating shall be uniform all over the insulator surface and free from all defects such as scratches, peeling-off, incomplete curing, bare spots, foreign material etc., Vendor shall at his own cost, arrange for necessary calibrated test instrument like ultrasonic thickness gauge, for measurement of finished coating thickness (the calibration certificate to be submitted for the above at the time of thickness measurement).	
3	The offered unit price for application of RTV Compound shall be inclusive of the required quantities of suitable cleaning aids as per the manufacturer's standard procedure for HVIC.	
4	The other consumables with expired shelf life shall not be used in this work.	
5	HVIC coating workmanship shall be of the best quality and coating shall be guaranteed for hydrophobicity properties and resistance to atmospheric and chemical degradation properties for a minimum of five years from date of application.	

(D) Desired technical properties of RTV Silicon Coating

Sl No	Specification		Agency's Compliance
	Parameter	Requirement	
1	Application Area	Glass, Porcelain, Insulators , Bushings, Instrument Transformer Insulators etc	
2	Dielectric strength after curing	> 25Kv / mm or (as per ASTM D 149)	
3	Loss tangent at 50 Hz	< 0.006	
4	Volume resistivity , ohm/cm	> 9 * 10 ¹⁴	
5	Specific gravity @ 25 deg C	1.1 to 1.4	
6	Percentage of solids by volume	>= 57%	
7	Filler type	ATH (Alumina Tri – hydrite) or Quartz or Both	
8	Colour	Grey	
9	Method of Application	Spray	
10	Skin over time at standard condition	15 minutes	
11	Track free at 25 deg C & 50% RH	30 Minutes	
12	Tracking resistance { AST D2303 test } at 25 Kv	> 800 Minutes	
13	Tracking and Erosion resistance	Minimum grade 1A4.5 as per IEC 60587	
14	Shelf life	Minimum one year from date of Receipt	
15	Dry Thickness of coating.	0.5mm or more	
16	Primer / solvent requirement	No	
17	Maximum full cure /cure through time	Not more than 24 hours. (Equipment charging shall be possible after 24 hours)	
18	Resistant to	Marine salt fog, Water, Industrial dust, fly ash, Acid emissions.	
19	Performance guarantee	Minimum 5 years from date of application	

BRIEF DETAILS

Bid Document No.	NTECL/C&M/CS-3492 Date. 09.01.2019
Description of Work	Supply and Application of RTV Silicone High Voltage Insulator coating in 400kV Switchyard
Bid Document Sale Period	From 09.01.2019 to 28.01.2019
Cost of Bidding document	Rs. 1197/- (Non-Refundable)
Last Query date (Queries shall be entertained up to this date only)	02.02.2019
Submission of Bids (Both Techno-Commercial Bid and Price Bid) i.e. Envelope – I & II together.	11.02.2019 Up to 14:30 Hours.
Techno – Commercial Bid Opening (Envelope – I)	11.02.2019 at 15:00 Hours.
EMD	Rs. 50,000/-
After Techno-commercial bid opening, the bids submitted shall be evaluated for meeting both the Qualifying Requirements & Technical Requirements and only those bids meeting the Qualifying Requirements and complying with the Technical Requirements shall be considered for Price Bid Opening.	
The date of opening of Price Bid (Envelope - II) shall be intimated separately.	
Address for bid submission of Bids	Addl. General Manager (C&M), Contracts and Materials Dept., NTPC Tamilnadu Energy Company Ltd, Vallur Thermal Power Project, Site Office: Vellivoyal Chavadi Post, Ponneri Taluk, Thiruvallur District Chennai - 600103, Tamilnadu. Fax: 044 - 27966065 / 27966033
Location of Tender box in NTECL Site office premises	Contracts & Materials Dept. Hall, NTECL Office Complex. (Site Office)
Contact Persons.	Ms. Sumitha Babu G Sr.Manager (C&M), NTECL Mob. No : 9445002574 Email: gsumithababu@ntpc.co.in (OR) Ms. Nitya V Manager (C&M), NTECL Mob. No : 9650990468 Email: nithyav@ntpc.co.in

OTHER TERMS AND CONDITIONS:

1. Detailed specifications, Scope of work, Terms & conditions etc., are given in the bidding documents. Bid documents can be downloaded from NTECL website, www.ntpcnteccljv.co.in/tenders.htm, against online payment or can be obtained on request with cost of Bid document in the form of DD in favour of 'NTECL' payable at Chennai or documentary evidence to the effect that the bidder is exempted from submission of EMD (Please refer clause 8 (d)).
2. **It is deemed that bidder shall accept all the terms and conditions mentioned in the tender documents without any deviation. For that the bidders are requested to accept the no deviation certificate for fulfillment of technical/commercial compliance. NO DEVIATION IS ACCEPTABLE TO NTECL.**

Any Clarification related to the scope, terms & conditions of contract may please be sought before 02.02.2019. Clarifications received after 02.02.2019 from the agencies will not be entertained. Suitable reply will be given to agencies based on their clarification before scheduled BOD. After this stage, no deviation is acceptable to NTECL.

3. The bids shall be received up to due date & time of bid opening at the Site Office of NTECL and shall be opened on the date and time as stipulated above in the presence of bidders who wish to be present. **Only one authorized representative of the bidder shall be allowed for attending the tender opening.**
4. The bidding documents shall be issued to all bidders upon their depositing the requisite cost of bidding documents along with request letter without prima-facie examination of qualification status. However, such issue of tender documents will not automatically mean that the bidders are considered qualified.
5. The qualification status shall be examined by NTECL during the process of evaluation and the decision of NTECL in this regard shall be final.
6. For fulfilling the Qualifying Requirements, intending bidder shall be required to submit the following documents along with their bid (duly attested at least by authorized signatory of the tenderer) :
 - a. **Income Tax Assessment order / Up to date copy of Profit & Loss Account and Balance Sheet of last three financial years ending 31st March 2018** duly audited by Chartered Accountant. 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 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.
 - b. **Copies of Work Orders / Award Letters** covering awarded value, detailed scope of work / terms and conditions / bill of quantities along with **proof of execution such as completion certificate clearly showing the value of work executed during the period of contract, Bill Copy, Final Deviation Copy etc.** in support of above Qualifying requirements. The bidder shall also provide the reference list of the organizations with contact address and phone numbers.
 - c. Copy of Permanent Account Number (PAN) issued by Income Tax authorities.
 - d. Copy of GSTIN Number issued by concerned authorities.
 - e. **No Deviation Statement (As per Schedule-A)**

8. Earnest Money Deposit :-

A. The **EMD** offered shall, at bidders option, be in the form of **(i) Demand Draft/Pay Order/Bankers Cheque in favour of NTECL payable at Chennai or (ii)** an unconditional and irrevocable Bank Guarantee (BG) from any of the banks specified in the bidding documents. The format of Bank Guarantee towards bid security shall be in accordance with the 'Proforma for BG' included in the bidding documents. While getting the Bank Guarantee issued, Bidders are requested to ensure compliance to the points mentioned in **Bank Guarantee Verification Check List** in the bidding documents. Bidders are required to fill up this check list and enclose the same along with the bank guarantee. EMD for an amount less than or equal to **Rs. 50,000.00** shall not be accepted in the form of bank guarantee.- EMD shall not be accepted in any other form.

B. The bid security shall remain valid for a period of Two Hundred Twenty Five (225) days from bid opening date (i.e 180 days BG validity period + 45 days claim period)

C. 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 RETURNED TO THE BIDDER WITHOUT BEING OPENED.

D. **EMD/Tender Fees Exemption for MSEs :** Micro and Small Enterprises (MSEs) registered with District Industries Centres or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts and Handloom or any other body specified by Ministry of Micro, Small and Medium Enterprises as per MSMED Act 2006, for goods produced and services rendered, **shall be issued the bidding documents free of cost and shall be exempted from paying Earnest Money Deposit.**

The benefit as above to MSEs shall be available only for goods / services produced & provided by MSEs for which they are registered.

MSEs seeking exemption and benefits should enclose an attested / self certified copy of valid registration certificate, giving details such as validity, stores/ services etc. failing which they run the risk of their bid being passed over as ineligible for the benefits applicable to MSEs.

9. THE PRICE BID/S OF ONLY THOSE BIDDERS SHALL BE OPENED WHO MEETS BOTH THE QUALIFYING REQUIREMENTS AND TECHNICAL REQUIREMENTS.

10. The Bidder or duly authorized representative/s of the Bidder/s, who are present during Bid opening shall sign in the Bid opening register. Only one authorized representative of the bidder shall be allowed for attending the tender opening.

11. NTECL shall not be responsible for any postal delays resulting in non-receipt of request for tender documents/ original tender documents, bids etc. sent by post / courier.

12. Notwithstanding anything stated above, NTECL reserves the right to assess bidder's capability and capacity to perform the contract, should the circumstances warrant such assessment in the overall interest of NTECL and decision of NTECL in this regard shall be final.

13. NTECL reserves the right to accept / reject any or all bids or Cancel / withdraw the Notice Inviting Tender (NIT) without assigning any reason whatsoever and in such case no bidder / intending bidder shall have any claim arising out of such action.
14. Tender documents are not transferable.
15. NTECL reserves the right to extend the date for submission & opening of bids at its Sole discretion.
16. Any change in Bidder's company name, address etc should be communicated separately to NTECL with proof of change, reference etc well before the due date for submission of tender.
17. The laws applicable to the contract shall be the law in force in India. The courts of Chennai alone shall have the exclusive jurisdiction in all matters arising under the contract.

Address for Communication:

The AGM (C&M)
Contracts & Materials Dept,
NTPC Tamilnadu Energy Company Ltd
Vallur Thermal Power Project
Vellivoyal Chavadi Post,
Ponneri Taluk, Thiruvallur District,
Chennai - 600 103.
Tel. No.044 - 65351052 Fax: 044 –
27966033 / 65

OR The Sr. Manager (C&M)
Contracts & Materials Dept,
NTPC Tamilnadu Energy Company Ltd
Vallur Thermal Power Project
Vellivoyal Chavadi Post,
Ponneri Taluk, Thiruvallur District,
Chennai - 600 103.
Tel. No.044 - 65351017 Fax: 044 –
27966033 / 65

Ms. Sumitha Babu G, Sr.Manager (C&M)
Contracts & Materials Dept,
NTPC Tamilnadu Energy Company Ltd
Vallur Thermal Power Project
Vellivoyal Chavadi Post,
Ponneri Taluk, Thiruvallur District,
Chennai - 600 103.
Tel. No.044 - 65351017 Fax: 044 –
27966033/65