

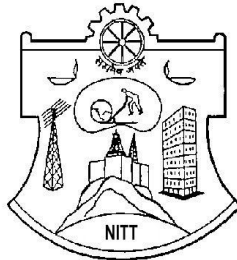
NATIONAL INSTITUTE OF TECHNOLOGY

TIRUCHIRAPPALLI – 15

Department of Metallurgical & Materials Engineering

Web: www.nitt.edu

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TENDER DOCUMENT

Tender Notification No.: NITT/R&C/MME/SN/NITT-NLC/2011-12/4

Date: 25.5.2011

- Name of the Job : Thermal Spray Coatings for Storm water control pumps
- Number of Pumps to be coated : 6 Pump Casings with accessories
- EMD Amount : Rs.75,000/-
- Delivery : Two weeks from the date of receipt of pumps
- Last Date of submission of Tender : **16.6.2011 upto 3.00 p.m.**
- Address for submission of Tender : The Director
National Institute of Technology – Tiruchirappalli - 15

Kind Attention:

Prof.S.Natarajan,

Principal Investigator

NITT-NLC Project

Dept. of Metallurgical & Materials Engineering

National Institute of Technology

Tiruchirappalli – 620 015

E-mail: sn@nitt.edu, Mobile: 9486001125

- Date of opening of technical bid : **16.6.2011 at 3.30 p.m.**



**NATIONAL INSTITUTE OF TECHNOLOGY
TIRUCHIRAPPALLI – 15**

DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING

Tender Notification No.: NITT/R&C/MME/SN/NITT-NLC/2011-12/4

Date: 25.5.2011

NOTICE INVITING TENDER

The National Institute of Technology, Tiruchirappalli (NITT) is an autonomous body under MHRD, GoI, imparting Technical Education and engaged in Research Activities. It is proposed to identify suitable coaters to carry out thermal spray coating for storm water control pumps for NITT – NLC Collaborative project.

Sealed Quotations are invited for the following work order under two cover systems subject to the following terms and conditions, from the reputed coaters so as to reach this office on or before scheduled date and time. The **Cover `A`** should contain the following details:

1. Performance credentials (Refer SI.No 1 of section I)
2. EMD for Rs.75,000.00 (Refer SI.No 19 & 20 of section I)
3. Technical specifications (Refer SI.No 2,3,4 & 5 of section I)

The **Cover `B`** should contain price aspects (Refer section IV). The quotations will be opened on a date which will be intimated to the qualified bidders.

Scope of the work : Thermal Spray Coatings for Storm water control pumps
Number of pumps to be coated : 6 Pump Casings with accessories
EMD Amount : **Rs.75,000/-**
Delivery : Two weeks from the date of receipt of pumps
(Refer SI.No.10 of Section 1)
Last Date of submission of Tender : 16.6.2011 upto 3.00 p.m.
Address for submission of Tender : The Director
National Institute of Technology – Tiruchirappalli – 15

Kind Attention:

Prof.S.Natarajan,

Principal Investigator

NITT-NLC Project

Dept. of Metallurgical & Materials Engineering

National Institute of Technology

Tiruchirappalli – 620 015

E-mail: sn@nitt.edu, Mobile: 9486001125

Place, Date and time of opening of bid:

Date: - 16.6.2011

Time: 3:30 pm

Venue: Dean (R&C) office/Admin Block

Note : The Institute shall not be responsible for any postal delay about non-receipt / non delivery of the bids or due to wrong addressee.

SECTION: I General Terms and Conditions

1.	The bidders should have executed and completed thermal spray coatings of hydro-turbo machinery components in a single order of not less than Rs.5 Lakhs in the last five years and work order details and performance certificate from the clients shall be enclosed.
2.	The bidder should have in house testing and characterization of coatings
3.	The bidder should have demonstrated experience in the coating of complicated contours such as vanes, turbine blades, volute casings, curved parts and three dimensional contours
4.	The bidder should enclose the original test certificate of the powder provided by the supplier as per ASTM/DIN/EN standards.
5.	The bidder should furnish the certificates for the following parameters of the coatings: Hardness Porosity Adhesion Chemical composition of the coating
6.	The bidder should furnish at least six free samples (of size 50mmx50mmx10mm) of each type of coating in the same run of coating in the component.
7.	As the Components to be coated are heat sensitive appropriate fixtures/jigs should be developed by the coater to avoid shrinkage/eccentricity/ovalty of seating areas/rings during coating process in consultation with NITT/NLC officials and in conformance with the fits and tolerances of components. The coater shall also indicate the inaccessible areas of components that can not be coated.
8.	The bidders should furnish guarantee/warranty for a period of one year for the coatings from the date of commissioning of these components in the mines field. Abnormal wear/damage if any should be rectified by the bidder at his cost including transportation of components after providing Indemnity bond/Bank guarantee.
9.	The bidder should execute Indemnity bond/Bank guarantee valid for 3 months from the date of work order towards NLC-NITT for a value of Rs 4 Lakhs for each set of pump casing.
10.	The bidder should take diligent care for safe custody, handling and working on the pump casing so that no damages are caused to contours of the pump casing <i>and cost of each such damage shall be deducted from the bidder.</i>
11.	NLC – NITT authorities shall have the right and access to inspect the firms with due intimation at the time of work.
12.	The work should be executed within 15 days after the receipt of pump casing at the bidder's premises and it should be kept ready for dispatch through the Transport Agency authorized by the NLC. Delay in delivery will attract penalty @ 0.5% per week on the value of undelivered portion of the goods subject to a maximum of 10% of the total value of the contract.
13.	The details of the company should be furnished along with the copy of all related documents. 1 <u>Documents to be submitted in the Bid:</u> The agency should furnish Income Tax PAN number Catalogue of the product with detailed product specifications EMD may be remitted in the form of bank DD original form valid for minimum six months,

	through Bank guarantee (validity for 6 months) drawn on any scheduled bank in favour of “ The Director, NIT, Trichy ” payable at Trichy should be submitted. EMD shall bear no interest. Any bid not accompanying with EMD will be summarily rejected.
14.	The company should submit their rate as per the format given in Section 4 of the Notice Inviting Tender in this cover. The rate should be quoted both in words and figures. All the pages of the bid should be signed affixing the seal. All corrections and overwriting should be initialed.
15.	<i>The bid cover should be duly superscribed with the following details.</i> <i>(1) Tender Notification Number (2) Tender for the coating of (3) Date of opening</i> <i>Mention “Kind Attention: Contact’s person’s name and phone number”, and submit at the address given in the Notice Inviting Tender.</i>
16.	The tender will be acceptable only from the authorized coating company.
17.	The bid shall be in the format of price schedule given in Section 4. The contract form as per format given in section 5 shall be submitted. Incomplete or conditional tender will be rejected.
18.	Details of quantity and the specifications are mentioned in Section 3 appended to this Notice Inviting Tender.
19.	The item to be used is strictly according to the specification and subject to test by the Institute/concerned authorities. It must be delivered and installed in good working condition.
20.	The Institute reserves the right to cancel or reduce the quantity included in the schedule of requirements at any time after acceptance of the tender with a notice. The Contractor/Supplier shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the work/supply in full but he did not derive in consequence of the foreclosure of the whole or part of the works.
21.	The EMD of the successful bidder will be converted into security deposit towards performance guarantee, which will be returned after the satisfactory performance of the supplier.
22.	<u>Validity of bids:</u> The rate quote should be valid for a minimum of 90 days. No claim for escalation of rate will be considered after opening the Tender.
23.	<u>Clarification of Tender Document:</u> A prospective bidder requiring any clarification of the Tender document may communicate to the contact person given in this notice inviting tender.
24.	Amendment of tender document: At any time prior to the last date of receipt of bids, Institute may for any reason, whether at its own initiative or in response to a clarification requested by prospective bidder, modify the Tender document by an amendment.
25.	<i>The Institute may at its own discretion extend the last date for the receipt of bids.</i>
26.	The bids shall be written in English language and any information printed in other language shall be accompanied by an English translation, in which case for the purpose of interpretation of the bid, the English translation shall govern.
27.	The Institute reserves the right of accepting any bid other than the lowest or even rejecting all the bids. The decision of the Institute Purchase Committee is final in all matters of tender and purchase.
28.	The bidder should give the following declaration while submitting the Tender.

DECLARATION

I/we have not tampered/modified the tender forms in any manner. In case, if the same is found to have been tampered/modified, I/we understand that my/our tender will be summarily rejected and full Earnest Money Deposit (EMD) will be forfeited and I/we am/are liable to be banned from doing business with NIT, Trichy and /or prosecuted.

Signature of the Bidder :

Name and Designation :

Business Address :
.....
.....

Place :

Date :

Seal of the Bidder's Firm

29. Any other details required may be obtained from the contact person given in the notice inviting tender during the office hours.

SECTION : II CONDITIONS OF CONTRACT

1. The rates should be quoted inclusive of transport F.O.R. NLC, Neyveli and on 'to and fro' basis.
2. The pump casings will be loaded and unloaded at NLC premises by NLC. The transit insurance will be arranged by NLC.
3. The bidder shall indicate the excise duty exemption for the goods if applicable
4. The Institute is eligible for customs duty and excise duty exemption.
5. The rate quoted should be on Sq.m basis. Taxes and other charges should be quoted separately, considering exemptions if any.
6. **Payment:** No advance payment will be made. 90% payment will be made after installation and rest 10% after the satisfactory completion of the work.
7. Warrantee period should be specified for the complete period conforming to the section 3 of this tender document.
8. The bidder shall submit road transport Porforma to the transporter of NLC for check post needs.
9. In case of dispute, the matter will be subject to Tiruchirappalli, Tamil Nadu Jurisdiction only.

SECTION: III SCHEDULE OF REQUIREMENTS, SPECIFICATIONS AND ALLIED DETAILS

Components: Pump upper & lower casing made of Cast Iron BIS 210, Fe 260, with 2% Ni along with other accessories like stuffing boxes, rings, impellers etc

Approximate areas to be coated for each pump casing along with components:

High Pressure Area (Up to 15 Kg/cm ²)	:	2.1180 Sq.m (Approximately)
Low Pressure Area (Up to 2 Kg/cm ²)	:	1.0690 Sq.m (Approximately)

Kindly give us the quotations for the following combination of coatings per square meter.

1. WC-Co-Cr/Ni by HVOF
2. Ni-Cr-B-Si by HVOF
3. Al₂O₃ - TiO₂ by Plasma Spray Process or any other process
4. Ni-Al by Wire Arc /Plasma Spray Process
5. Ni-Cr by HVOF or any other process

Note:

- High pressure Area - To minimize both Erosion & Corrosion Problems.
- Low Pressure Area- To minimize Corrosion Problems.
- Post treatment applicable parts should be grinded / surface finished at the bidders end.
- Coating surface should be free from defects such as blowholes, cracks and imperfections.
- Coating thickness should be maintained uniform all over the surface.

Quantity : 6 Nos.

Any other details/requirement : Coating thickness should be 300 to 350 Microns

Warranty period required : 12 months from the date of commissioning

Delivery schedule expected after release of work order : 15 days (Refer Sl.No.10 of Section I)

EMD (in Rupees) : Rs. 75,000/-

Performance Security to be given by Successful bidder after release of work order : 5% value of the work order

SECTION: IV PRICE SCHEDULE

[To be used by the bidder for submission of the bid]

1.	Coating Component Name	:	
2.	Specifications (confirming to Section 3 of Tender document-enclose additional sheets if necessary)	:	
3.	Price per Sq.m 1. 2. 3. 4. 5	:	
4.	Quantity	:	
5.	Coating cost	:	
6.	Taxes and other charges (i) Specify the type of taxes and duties in percentages and also in figures (ii) Specify other charges in figures	:	
7.	Warranty period (conforming to the Section 3 of Tender document. This should be mentioned in Technical bid also in order to get qualified for Financial bid)	:	
8.	Delivery Schedule (conforming to the Section 3 of Tender document)	:	
9.	Name and address of the firm for placing work order	:	
10.	It is the responsibility of the successful bidder to ensure safety and safe delivery of material. Insurance for the transportations of pumps from the NLC site to contract's site and back and during the custody of contractor shall be borne by the contractor.	:	
11.	Name and address of Indian authorized agent (in case of imports only)	:	

Signature of the Bidder :

Name and Designation :

Business Address :
.....
.....

Place :

Date :

Seal of the Bidder's Firm