



DELHI METRO RAIL CORPORATION LTD.

(A Joint Venture of Govt. of India & Govt. of NCT, Delhi)

“ Work for Epoxy painting of condenser water pipelines, non-portable water pipelines and bottom areas of cooling towers installed at underground stations of L-2 & L-3 of DMRC”

TENDER DOCUMENT

No. O&M/E&M/UG/2015/Painting

- \* NOTICE INVITING TENDER
- \* INSTRUCTION TO TENDERER
- \* SPECIAL CONDITIONS OF CONTRACT
- \* OTHER TERMS AND CONDITIONS
- \* BILL OF QUANTITY

SECTION 1  
NOTICE INVITING TENDER

1.1 GENERAL

Delhi Metro Rail Corporation (DMRC) Ltd. Invites sealed e-open tenders in TWO PACKETS SYSTEM (Evaluation and Financial) from the eligible tenderes as per tender clause 1.2 of NIT for "Work for Epoxy painting of condenser water pipelines, non-portable water pipelines and bottom areas of cooling towers installed at underground stations of L-2 & L-3 of DMRC"

1.1.1 The details of the Tender are as per following:

Estimated cost of work	Rs. 14,31,548/- inclusive of all taxes
Tender Security amount	Rs. 28,631/-
Cost of Tender documents	INR 5250./- (inclusive of 5% DVAT) Non-Refundable
Completion period of the Work	One year (from 10 <sup>th</sup> day of issue of letter of acceptance)
Tender documents on sale	From 30.11.15 to 21.12.15 (upto 18:00 hrs) on e-tendering website <a href="http://www.tenderwizard.com/DMRC">www.tenderwizard.com/DMRC</a>  Tender document can only be obtained after registration of tenderer on the website <a href="http://www.tenderwizard.com/DMRC">www.tenderwizard.com/DMRC</a> . For further information on this regard bidders are advised to contact 011-49424307, 011-49424365 or 011-23417910
Pre-bid Meeting	N/A
Last date of Seeking Clarification	Upto 22.12.15 at 1500 hrs
Last date of issuing addendum	Upto 23.12.15 at 1500hrs
Date & time of Submission of Tender	Upto 28.12.15 at 1500hrs
Date & time of opening of Technical Bid	Upto 28.12.15 at 1530hrs
Date & time of opening of Financial Bid	Shall be informed after evaluation of technical bid through website <a href="http://www.tenderwizard.com/DMRC">www.tenderwizard.com/DMRC</a>
Authority and place for purchase of tender documents, seeking clarifications and submission of completed tender documents	DGM/E&M/UG  Delhi Metro Rail Corporation,  2nd floor, B-Wing, Metro Bhawan,

	Fire Brigade Lane, Barakhamba Road, New Delhi –110 001
<p>The tender cost and tender security will be in the form of demand draft/ banker's cheque / bank guarantee in favor of "Delhi Metro Rail Corporation Ltd" payable at New Delhi.)</p> <p>The same should be submitted in original up to 1500hrs on last date of submission of tender in the office of DGM/E&amp;M/UG at above mentioned address.</p> <p>NOTE: Failure of submission of tender cost &amp; tender security (in original) with in stipulated time as mentioned above, leads to rejection of offer submitted by the bidder.</p>	

## 1.2 Eligibility Criteria

### 1.2.1 Work Experience:

- a. Experience of having satisfactorily completed similar works carried out at Govt./Semi Govt organization/PSU during last five years ending last day of month previous to the one in which the Tenders are invited should be either of the following: -

Three similar works costing not less than the amount equal to 40% of the estimated cost put up to the tender.

or

Two similar works costing not less than the amount equal to 50% of the estimated cost put up to the tender

or

One similar work costing not less than the amount equal to 80% of the estimated cost put up to the tender

Similar nature of work means: "Painting of Electrical & Mechanical Equipments/ Pipe lines/ Tower/Mast/Panel etc. "

Following documents shall be considered for evaluating the criteria of work experience:

- i) Self attested copies of work order, BOQ along with completion certificate (indicating the name of work, final amount, completion date etc) issued by the client preferably on their letter head for completed work from the officer not less than rank of Executive Engineer

- b. Financial Standings:

Applicant should have average Annual Turnover of last three audited financial years not less than 80% of Estimated.

Financial data for latest last three audited financial years has to be submitted by the tenderer along with audited balance sheets.

- c. Self attested copy of VAT/Service tax registration certificate, PAN no.
- d. Applicant must not have been black listed or deregistered by any Govt or Public sector undertaking during last 5 years the contractor has to submit an undertaking on Rs. 10 stamp paper duly attested by Notary in format enclosed in annexure -D
- e. Tenderer shall submit last three years (2012-2013, 2013-2014, 2014-2015) audited financial statement duly attested by certified CA to work out net worth. The net worth must be positive.

- 1.2.2 The tender submission of bidders, who do not qualify the minimum eligibility criteria stipulated in the clauses 1.2.1 above, shall not be considered for further evaluation and considered rejected. The mere fact that the bidder is qualified as mentioned in sub clause shall not imply that his bid shall automatically be accepted. The same shall be subject to the data as required

for consideration of tender prescribed in the ITT. The same should contain all Financial & other details as required for the consideration of tender.

1.2.3 Tender document consists of the following:

Volume –I

- a. Notice Inviting Tender
- b. Scope of Work
- c. Tender prices and schedule of payment

Volume-II

- a. Instructions to Tenderers
- b. Technical Specifications
- c. Special Conditions of Contract
- d. Other terms and condition of Contract
- e. General Conditions of Contract
- f. Content of Bill of Quantities.

Volume –III

- a. Bill of Quantity

- 1.3 The tenderers may obtain further information in respect of these tender documents from the office of Deputy General Manager /E&M/UG office, 2<sup>nd</sup> Metro Bhawan Fire Brigade lane, Barakhamba Road New Delhi-110001
- 1.4 The contract shall be governed by the documents listed above along with latest edition of CPWD Specification, IRS Specifications & MORTH Specifications. These may be purchased separately from the market.
- 1.5 The intending bidders must be registered on e-tendering portal [www.tenderwizard.com/DMRC](http://www.tenderwizard.com/DMRC). Those who are not registered on the e-tendering portal shall be required to get registered beforehand. If needed they can be imparted training on 'online tendering process'. After registration the tenderer will get user id and password. On login tenderer can participate in tendering process and can witness various activities of the process.
- 1.6 The authorized signatory of intending bidder, as per Power of Attorney (POA), must have valid class-III digital signature. The tender document can only be downloaded or uploaded using Class-III digital signature of the authorized signatory.
- 1.7 Tender submissions will be made online after uploading the mandatory scanned documents towards cost of tender documents such as Demand Draft or Pay Order or Banker's Cheque from a Scheduled commercial bank based in India and towards Tender Security such as Bank Guarantee or Demand Draft or Pay Order or Banker's Cheque from a Scheduled commercial bank based in India and other documents as stated in the tender document.
- 1.8 Tenderer is cautioned that the tender containing any material deviation from the tender document which consists of NIT, Instructions to tenderes, General conditions of contract, Special conditions of contract, Bill of quantities is liable to be summarily rejected as non-responsive.
- 1.9 Late tenders (received after date and time of submission of bid) shall not be accepted under any circumstances.
- 1.10 Tenders shall be valid for a period of as per ITT clause 11 from the date of submission of Tenders and shall be accompanied with a tender security of the requisite amount as per ITT clause 12.
- 1.11 DMRC reserves the right to accept or reject any or all proposals without assigning any reasons. No bidder shall have any cause of action or claim against the DMRC for rejection of his proposal.

- 1.12 Bidders shall note that the maximum file size that can be uploaded is 5 MB. All the uploaded files in tender submission should be named properly and arrange systematically.
- i) The bidders are advised to keep in touch with e-tendering portal [www.tenderwizard.com/DMRC](http://www.tenderwizard.com/DMRC) for updates. Any corrigendum, addendum etc issued shall be part of this tender document and shall be made available on DMRC website [www.tenderwizard.com/DMRC](http://www.tenderwizard.com/DMRC)

(Arun Sharma)  
DGM/E&M/UG  
Delhi Metro Rail Corporation Ltd  
2<sup>nd</sup> floor, Metro Bhawan,  
Fire Brigade lane,  
Barakhambha Road  
New Delhi-110001

## SECTION 2

### SCOPE OF WORK

The contractor will execute the work i.e. "Work for Epoxy painting of condenser water pipelines, non-portable water pipelines and bottom areas of cooling towers installed at underground stations of L-2 & L-3 of DMRC"

#### 2.1 Detail Scope of Work

Supply of paint, consumables and tool including manpower and painting of surfaces of Electrical & Mechanical equipments, pipe lines exposed to the environment, installed at UG station from GTBN to CTST/L-2, BRKH & MDHS/L-3 & Khyber Pass Depot of DMRC.

#### 2.2 Surface Preparation:

Removal of rust, dust, old corroded paint, grease & oil by suitable remover (Emery Paper/scrubber/Metallic brush) and then clean the surface by surface cleaner (Reputed make) to finally remove the corrosion from the metal surface. Moisture shall be wiped out by cotton cloth before applying primer/paint.

#### 2.3 Priming and paint coat

- (a) Primer Coat: After surface preparation, epoxy based corrosion resistant (Approved Make- Asian, Nerolac, Burger) priming coat shall be applied as per IS2074 . Equipments and floors shall be covered by polyethylene sheets so that paint/primer splashes do not spoil surface of nearby equipments. The thickness of coat shall be 25-30 microns.
- (b) No coat shall be applied until the preceding coat dries off completely. The material shall be considered dry for re-coating when another coat can be applied without the development of any film irregularities such as lifting or loss of adhesion of undercoats. Drying time of the applied coat should not exceed maximum specified for it as a first coat; if it exceeds the paint material has possibly deteriorated or mixing is faulty.
- (c) Finishing Coat: Apply by brush /airless spray two coats of two pack based epoxy paint-Corrosion resistant paint (Approved Make- Asian, Nerolac, Burger) giving sufficient time gap between two coats to enable the first coat to become dry. Equipments and floors shall be covered by polyethylene sheets so that paint splashes do not spoil surface of nearby equipments. The thickness of each coat shall be DFT 90-110 microns. Digital Alkometer for thickness measurement shall be arranged by contractor. Thickness measurement report of each site duly counter signed by DMRC engineer shall be submitted at the time of submission of bills.
- (d) Color of paint for different equipments shall be as per annexure2 or engineer instruction.
- (e) Naming/Marking / identification signs shall be provided/written on dried painted surfaces of above installation/equipments.

#### 2.4 The paint manufacturer's instructions shall be followed as far as practicable at all times. Particular attention shall be paid to the following:

- (a) Instructions for storage to avoid exposure as well as extremes of temperature.
- (b) Surface preparation prior to painting.
- (c) Mixing of two packs of epoxy paint in recommended ratio.
- (d) Application of paints and recommended limit on time intervals between coats.

## 2.5 Condition for obtaining good painting

- a) Painting should be done in dry and reasonable warm conditions. The relative humidity should not be above 70%.
- b) Dew frequently condenses on a structure during night and hence painting at night and in the early hours of morning should be avoided.
- c) Painting should be avoided during rainy season and in adverse weather conditions (dust, storm, mist fog).

## 2.6 Guarantee:

The contractor shall guarantee for carrying out the rectification/repair/re-painting of the defects / failures of painting found during the execution of painting job and till the expiry of the defect liability period of total project as per the directions of DMRC Engineer-In-Charge.

2.7 Tools and consumables: The painting work may need to be carried out at height as well as in constrained spaces of low height. All Materials & Consumables such as old dhoti, cotton waste, cleaning agents, Brush, Primer, Paint, ladder/scaffold etc. required for painting of Electrical & Mechanical Equipments, Pipe lines etc. shall be arranged by the contractor. Trolley/Ladders available at particular site of DMRC may be provided to contractor under request to carry out the painting work. Cost of damage/breakage to DMRC property during painting work shall be borne by the contractor. After completion of painting work, contractor shall place the ladders/trolleys back in safe manner at the designated space as advised by DMRC Site Engineer-In-Charge. DMRC shall not be responsible for any delay of work for not having or providing ladders/Trolleys to contractor on this account.

## 2.8 Safety During Work:

- a) Contractor must provide safety equipment (PPE) to his workers during work at site.
- b) Contractor must depute a qualified supervisor at all times during the work. He shall be responsible for ensuring safety at site.

2.10 For every maintenance or servicing work progress, contractor shall prepare a work progress report, signed by contractor's service Engineer and DMRC engineer. First copy of it will be handed over to the DMRC engineer and second would be retained by contractor's service engineer.

## 3.0 Manpower deployment

3.1 The contractor shall deploy the manpower in consultation with Engineer in-charge and carry out the activities in hygienic manner.

3.2 The manpower can also be deployed during OFF days/holidays/night hours as per site requirements for which nothing shall be paid extra.

3.3 All the work associated with finishing complete in all respect shall be carried out by contractor for which nothing shall be paid extra.

4.0 DMRC is an ISO-14001 & OHSAS 18001 certified Organization for Environment, Health & safety. The work is to be carried out as per International Norms/Standards and in such a manner that all

premises always look Neat & Clean. Similarly, the waste disposal is also carried out in totally sealed manner without affecting the Environment.



## SECTION 3

### TENDER PRICES AND SCHEDULE OF PAYMENT

#### 3.1.1 Tender Prices

- a. Unless explicitly stated otherwise in the Tender Documents, the contractor shall be responsible for the whole works, based on the Bill of Quantities and payment shall be as per accepted rates based on the activities carried out as in the Schedule of work.
- b. The rate quoted by the tenderer shall be inclusive of all duties, taxes, fees, octroi and other levies, materials, labour to & for transportation of material and labour charges etc.

#### 3.1.2 Schedule of Payment

Payment shall be made on quarterly basis per accepted rates on submission of jointly signed report by DMRC engineer in-charge .

Payment shall be subjected to deduction of all T.D.S as per applicable law.