



DELHI METRO RAIL CORPORATION LTD.

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

" supply, Installation, testing & commissioning of panel gas
flooding system with NOVEC 1230 at Mandi House/L-3 & GTBN
Underground station of DMRC "

TENDER DOCUMENT

No. O&M/E&M/UG/2016/Fire/NOVEC

- * 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 “**supply, Installation, testing & commissioning of panel gas flooding system with NOVEC 1230 at Mandi House/L-3 & GTBN Underground station of DMRC**”

1.1.1 The details of the Tender are as per following:

Estimated cost of work	Rs. 32,47,635/- inclusive of all taxes
Tender Security amount	Rs. 64953/-
Cost of Tender documents	INR 5250./- (inclusive of 5% DVAT) Non-Refundable
Completion period of the Work	Four(4) months (from 10 th day of issue of letter of acceptance)
Tender documents on sale	From 25.01.16 to 16.02.16 (upto 18:00 hrs) on e-tendering website www.tenderwizard.com/DMRC Tender document can only be obtained after registration of tenderer on the website www.tenderwizard.com/DMRC . 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 17.02.16 at 1500 hrs
Last date of issuing addendum	Upto 18.02.16 at 1500hrs
Date & time of Submission of Tender	Upto 18.02.16 at 1500hrs
Date & time of opening of Technical Bid	18.02.16 at 1530hrs
Date & time of opening of Financial Bid	Shall be informed after evaluation of technical bid through website www.tenderwizard.com/DMRC
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&M/UG at above mentioned address.</p> <p>NOTE: Failure of submission of tender cost & 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/OEM for NOVEC system 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: " SITC fire protection/ fire suppression system in rooms or panels"

NOTE:

1. **this includes works related to Co₂/NOVEC/FM200 gas flooding system for rooms or panels.**
2. **Works related to fire alarm, fire detection, fire fighting system shall not be considered for this purpose.**

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

- a) 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, 2nd 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. 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 tenderers, 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 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

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

SECTION 2

SCOPE OF WORK

The contractor will execute the work i.e. **“supply, Installation, testing & commissioning of panel gas flooding system with NOVEC 1230 at Mandi House/L-3 & GTBN Underground station of DMRC”**

1.1 The work shall be carried out as per the BOQ at underground station of Delhi Metro Rail Corporation.

1.2 Works shall be carried out at following stations

- I. Mandi House/ L-3
- II. GTB Nagar/L-2

1.3 All the new NOVEC 1230 installation shall be provided in existing electrical panels of Auxiliary Sub Station of both stations as per the direction of engineer in-charge so that the overall efficiency of the system will not be affected.

1.4 Contractor shall follow the NFPA 2001 while executing the NOVEC 1230 system.

1.5 Contractor shall integrate the NOVEC 1230 system with existing Notifier system after providing necessary cable and monitor module of Notifier make installed at stations.

1.6 Cable used for system integration with existing Notifier system shall be of specification: Heat resistance cable 2C x 1.5 sqmm cable, color Red, Non armored, BS 8434-1.2003 BSEN50200.2006 PH120 BS7629-1.1997(H) BS6387.1994 CWZ 300/500V-2

1.7 All the necessary clamps, hooks etc required for holding of tube, cylinder or MCU etc shall be provided by contractor,

1.8 The contractor shall made all the necessary arrangement and machinery for drilling, welding, brazing required nothing shall be paid extra.

1.9 Electrical wiring connection including cables, wire, connectors and installation accessories shall be in scope of contractor

1.10 Electrical cables or wiring installed outside the electrical panels shall be protected by metallic flexible conduit.

1.11 Contractor shall carry out the wiring/cable etc. as required with proper dressing and saddle as direction of engineer in-charge.

1.12 Contractor shall follow the relevant IE rules / acts etc. during execution of work

1.13 Proper safety shall be responsibility of the contractor during work on HV and LV electrical system.

1.14 If gas releases due to any defect of mal-operation the cost shall be bear by contractor during the completion period and DLP.

1.15 The contractor shall submit the scheduled planning for execution of work at least two days in advance to the engineer in-charge.

1.16 All the work shall be executed in non-revenue hours (night) for that nothing shall be paid extra.

1.17 Contractor shall clean & dispose the released scrap/material etc. as per DMRC environmental policy.

1.18 Contractor shall bring all tools & tackles required to carry out the work, no T&P etc. shall be provided by DMRC

1.19 Contractor shall provide on site training for operation and maintenance of above system.

- 1.20 Contractor shall also submit 2 copies in hard and one soft copy the station wise layout plan for system.
- 1.21 Any defects of Workmanship, materials, performance, maladjustment, non-compliance with this specification or other irregularities which become apparent during the tests or commissioning shall be rectified by the Contractor, at its own expense, Installation shall be free from defects and in full working order to the complete satisfaction of the Engineer.
- 1.22 The contractor shall also be responsible to repair the defects / faults arise during the defect liability period after the completion of work
- 1.23 Contractor shall clean & dispose the released scrap/material etc. as per DMRC environmental policy.
- 1.24 Any other minor work required for completion of job shall be in scope of contractor, nothing shall be paid extra.
- 1.25 If there is any other technical requirement for system completion the same shall be explained by the contract to Engineer in-charge.

if there is any deviation in the technical specification, same should be highlighted at the time of tendering only

2 Corrective maintenance During Defect liability period.

Corrective Maintenance shall be for One years from the date of completion of work: The Corrective/Breakdown Maintenance is to be carried out any time during 24 hrs x 365 days inclusive of all Sundays & Holidays.

Response Time (Max):	06 hrs
A. To attend the Minor Repair	
Attending time (Max.)	48 hrs
B. To attend the Major Repair	
Attending time (Max.)	4 days

However, the decision regarding minor/major maintenance shall be of DMRC, which will be binding on the contractor. . if fault not rectified in stipulated time, the work shall be carried out by DMRC on the risk & cost of contractor

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 after completion of 100% work as 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.