



**दिल्ली मेट्रो रेल कॉरपोरेशन लिमिटेड**  
**DELHI METRO RAIL CORPORATION LTD.**

**CONTRACT NO: CCM-160/2015**

**Repair to damaged bituminous road with overlaying thin white  
topping-TWT i.e. Portland Cement Concrete overlay concrete on  
top of existing Bituminous Road at Shastri Park**

***VOL-I***

**DELHI METRO RAIL CORPORATION LTD.**

**6<sup>TH</sup> FLOOR, C-WING, METRO BHAWAN,  
FIRE BRIGADE LANE, BARAKHAMBA ROAD,  
NEW DELHI 110001**

## SECTION 1 NOTICE INVITING TENDER

### 1.1 GENERAL

Delhi Metro Rail Corporation (DMRC) Ltd. invites open e-tenders in two bid packet system for **“Repair to damaged bituminous road with overlaying thin white topping-TWT i.e. Portland Cement Concrete overlay concrete on top of existing Bituminous Road at Shastri Park”** of DMRC LTD.

1.1.1 Delhi Metro Rail Corporation (DMRC) Ltd. invites open e-tenders in two bid packet system for the above-mentioned work (clause 1.1.1).

Approximate cost of work	Rs. 1,75,22,880/-(inclusive of all taxes)
Tender Security amount	Rs. 1,75,230/- Tender Security Amount i.e. D.D./Banker's cheque/BG/FDR, in favour of “Delhi Metro Rail Corporation Ltd” payable at New Delhi. in original, shall be accepted only upto 15:00 hours on 29/04/16 in the office of DGM/C&S at below mentioned address.
Completion period of the Work	120 days
Tender documents on sale	07/04/16 to 28/04/16 (upto 17:00 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
Cost of Tender documents	INR 5,250/- (inclusive of 5% DVAT) Non-Refundable (Demand Draft /Banker's cheque) in favour of “Delhi Metro Rail Corporation Ltd” payable at New Delhi.) Cost of tender documents i.e. D.D./Banker's cheque, in original, shall be accepted only upto 15:00 hours on 29/04/16 in the office of DGM/C&S at below mentioned address.
Date of Pre-Bid Meeting	20/04/16 at 15:00 hrs at DGM /civil office D.O. building Shastri Park Train Depot, Delhi
Last date of issuing addendum	26/04/16 up to 17:00 hrs
Last Date & time of Submission of Tender (both technical and financial bid)	29/04/16 up to 15:00 hrs
Date & time of opening of Tender ( Technical Bid)	29/04/16 at 15:05 Hrs.
Authority and place for purchase of tender documents, seeking clarifications and submission of completed tender documents	DGM/C&S Delhi Metro Rail Corporation, 6 <sup>th</sup> floor, C-Wing, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi –110 001

The tender documents (non-transferable) can only be obtained after registration of tenderer on the website [www.tenderwizard.com/DMRC](http://www.tenderwizard.com/DMRC). Downloaded tender document will not be entertained. All D.D. should be drawn in favour of “**Delhi Metro rail Corporation Ltd.**”, payable at New Delhi.

**NOTE:** 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)

### 1.1.2 **Minimum Eligibility Criteria**

#### **(a) Work Experience:**

Experience of having satisfactorily completed similar works during last 5 years period ending last day of the month previous to the one in which the tenders are invited should be either of the following:

(i) Three similar completed works each costing not less than the amount equal to Rs. **70.09** lakh

or

(ii) Two similar completed works each costing not less than the amount equal to Rs. **87.61** lakh

or

**(b)** One similar completed work costing not less than the amount equal to Rs. **140.18** lakhs

#### **Financial Standing (Annual Turnover) :**

The annual average turnover of applicant during the last three audited financial years should not be less than Rs. **140.18** lakh.

Tenderer shall submit last three years audited financial statement duly attested by certified Chartered Accountant to work out net worth and turnover. The net worth must be positive.

**(C)** The tenderer should have minimum three years experience of civil works in any Central Govt./state Govt./PSU's/DMRC or any private Limited company of repute, (relevant documentary proof has to be submitted).

**(d)** Definition of similar work: The work analogous to that defined in scope of work and any civil work involving cement concrete or road work etc .

**(e)** 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.

**NOTE:** 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)

### 1.2 **POINTS TO BE NOTED**

1.2.1 Works envisaged under this contract are required to be executed in all respects within the period of completion mentioned above.

1.2.2 The mere fact that the tenderer is short listed as mentioned in sub clause 1.1.2 shall not imply that his bid shall automatically be accepted. The same should contain all technical, 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 - consisting of
  - i. Notice Inviting Tender
  - ii. Scope of Work
  - iii. Tender prices
- b. Instructions to Tenderers

- c. General Conditions of Contract
- d. Checklist for technical qualification

**Volume II**

- a. Bill of quantities
- 1.2.4 The Contract shall be governed by the documents listed in para 1.2.3 above.
  - 1.2.5 The tenderers may obtain further information in respect of these tender documents from the office of DGM/Civil, 6<sup>th</sup> floor, Metro Bhawan, Fire Brigade lane, Barakhamba Road, New Delhi-01
  - 1.2.6 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.
  - 1.2.7 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.
  - 1.2.8 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 or FDR from a Scheduled commercial bank based in India and other documents as stated in the tender document.
  - 1.2.9 Late tenders (received after date and time of submission of bid) shall not be accepted under any circumstances.
  - 1.2.10 All Tenderers are hereby cautioned that tenders containing any material deviation or reservation as described in Clause 24.0 of "Instructions to Tenderers" and / or minor deviation without quoting the cost of withdrawal shall be considered non-responsive & shall be summarily rejected.
  - 1.2.11 DMRC reserves the right to accept or reject any or all proposals without assigning any reasons. No tenderer shall have any cause of action or claim against the DMRC for rejection of his proposal.
  - 1.2.12 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.
  - 1.2.13 The bidders are advised to keep in touch with e-tendering portal [www.tenderwizard.com/DMRC](http://www.tenderwizard.com/DMRC) for updates.

DGM /Civil

DMRC, New Delhi

## SECTION 2

### SCOPE OF WORK

#### SCOPE OF WORK

The contractor will execute the work i.e. **“Repair to damaged bituminous road with overlaying thin white topping-TWT i.e. Portland Cement Concrete overlay concrete on top of existing Bituminous Road at Shastri Park”**.

- 2.0 Contractor shall prepare the drawing/work method/bar chart for the approval of the DMRC as per requirement.
- 2.1 The above mentioned work shall be carried out with contractors own material & labour as per the specification & drawing.
- 2.2 The Brief scope of work is mentioned in DSR/BOQ and as per site requirement.
- The work under this contract shall consist of, but not limited to, all materials, labour, equipment's, tools, plants and necessary machinery as required to completely execute following works:
- a) Milling/Scarifying upto 50mm of existing bituminous road
  - b) Providing /laying dense bituminous macadam with tack coat in depressed / pot holes
  - c) Overlaying Thin White Topping( 100-200mm thick Portland Cement Concrete) of strength more than M-40 to M-45 reinforcing with High Performance Polypropylene Fibres and some quantity of fly ash for additional durability with concrete paver finisher with atleast 40 HP Motor and Senser, on existing bituminous pavement
  - d) Other allied works of road i.e repair & replacement of damaged curve stone, cover paver blocks with new one and raising the road gully chambers with replacement of damaged frames & covers etc
  - e) Providing expansion joints, painting runway marking etc
  - f) Work should be done as per technical specifications.
  - g) Other associated works like safety aspects shall be done by contractor.
  - h) Other miscellaneous items as per instructions of engineer in charge.
- The contractor shall plan & execute the work in such a way that the work proceeds smoothly to the satisfaction of engineer.
  - The Contractor shall attend regular coordination meetings convened by the employer/engineer for interface and adhere to the decisions taken in the meeting.
  - Access will be provided to the staff of the contractor appointed by employer for carrying out their works and bringing materials and Equipments at site. However, the security of materials and Equipments brought at the site will be the responsibility of the Contractor.
  - The Contractor shall take all necessary precautions to ensure safety of the staff, adjoining structures, materials & equipments and the work in progress as per the directions of engineer-in-charge.

2.3 In case of discrepancy among Standard codes of Practice, Technical Specifications and provision in sub-clause in this NIT, the order of precedence will be as below:

- (i) Provision in NIT/BOQ.
- (ii) Technical Specifications
- (iii) CPWD Specifications
- (iv) Standard Code of Practice.

In case of discrepancy among Standard Codes of Practice, the order of precedence will be IRS, IRC, IS, BS, DIN.

2.4 Time Schedule:

The contract period for execution of the above mentioned work is 120 days from the date of commencement of work. The works should start immediately 7 days of issuance of work orders by the competent authority. However the emergency works arisen should be attended promptly.

2.5 Specifications:

CPWD Specifications / IS code are applicable.

## 2.6 Material

### 2.6.1 Quality

All materials used in the works shall be of the quality of their respective kinds as specified in CPWD specifications, obtained from sources and suppliers approved by the Engineer and shall comply strictly with the tests prescribed in the Technical Specifications/Codes of Practice.

**All materials used in DMRC stations during construction stage are approved materials.** In addition, to materials used to construct DMRC stations. Some of the additional approved sources/vendors of materials are as follows:

#### VENDOR LIST

S.No.	Details of Materials/ Products	Manufacturer's Name / or Equivalent specification
1.	Adhesive	Pidilite, Araldite ,
2.	Flush Doors	Samrat, Kanchan Prima Swastik, Kutty, Diamond, Raveela, Alpro.1
3.	Gypsum Board	India Gypsum Limited , GYPROC, Saint Gobain or equivalent
4.	Aluminium Sections	Indian Aluminium Co./Hindustan Aluminium/Jindal
5.	Float Glass	Float Glass India Ltd/Asahi Float/Modiguard Reliable Safety Glass Ltd/Glaverbell/Saint Gobain/Tata Float.
6.	Powder Coatings	Berger/Nerocoat/Jenson and Nicholson
7.	Tile Joint Filler	Bal Adhesives and Grouts/"Roff Rainbow Tile Male" of Roff Construction Chemicals Pvt. Ltd/Winsil 20/Silicon Sealant of CE Bayer Silicon/"Zentrival FM" or MC Bauchemie (India) Pvt.Ltd/Laticrete, Ferrous Crete.
8.	Ceramic Tiles	Kajaria/Bell/Johnson/Nitco/Naveen/Somany/ Orient
9.	Vitrified Tiles	"Naveen Diamontile" of Murudeshwar Ceramics Ltd./"Granamite of Restile Ceramics Limited/"Marbo Granit" of Bell Granito Ceramica Ltd./Kajaria, NITCO.

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10.	Synthetic Enamel	ICI Dulux Gloss/Berger/Asian/Nerolac/Jenson and Nicholson
11.	Interlock Paving Tiles	Unistone/CCC Builders Merchant Delhi Pvt. Ltd./Nimco Prefab.
12.	Door Fittings	Dorma, Hafele, Doorset, Dline./Godrej/Classic
13.	Cement	L&T, ACC, GRASIM, Gujrat Ambuja, Birla (Ordinary Portland Cement of Grade 43.
14.	Reinforcement Bars	TISCO, SAIL, RINL, IISCO
15.	Admixture	FORSOC, MBT, Asian Lab, MC Bauchemie, Chembond.
16.	Structural Steel	TATA, SAIL, ESSAR, JINDAL, RINL, IISCO
17.	Welding Electrodes	ADVANI, ESAB-MODI-ARC/Weld Excel India
18.	Ready-Mix Concrete (RMC)	ACC, Unitech, Grasim, LandT, Jindal
19.	Internal and External Paints	Berger/Asian/Nerolac/Jenson and Nicholson.
20.	PVC Doors	M/s. Rajashri Forex Ltd. or equivalent, SYNTEX, CACTUS.
21.	Plastic Emulsion Paint	Berger, Asian, Nerolac, Jenson and Nicholson, ICI, Dulux
22.	Sanitary Installations	Hindustan Sanitary Wares and Industries Ltd, CERA
23.	G.I. Pipes	Jindal Pipes Ltd, TATA, Prakash, Surya
24.	G.I. Pipe Fittings	UNIK make or equivalent.
25.	Water supply Fittings	Heavy Duty Industrial fittings of Jaguar or equivalent make, Parko, Hindware, Pariware, Cera, Roca ETC

**In case of non-availability of specified materials the alternative material should be used with the prior approval of Engineer in charge. The approval should be obtained in writing. If any material is used without approval it will not be paid by DMRC.**

**2.7 Sampling and Testing**

In addition to Test certificates, samples of all materials proposed to be employed in permanent works shall be submitted to the Engineer when called for. In such cases, materials will not be brought to the site without prior approval of the Engineer.

Samples provided to the Engineer are to be labeled in boxes suitable for storage. Materials or workmanship, not corresponding in character and quality with approved samples, will be rejected by the Engineer.

Samples required for approval and testing must be supplied at least 45 days in advance to allow for testing and approval. Delay to the works arising from the late submission of samples will not be acceptable as a reason for delay in completion of the works.

The contractor will bear all expenses for sampling and testing, whether at the manufacturer's premises at source, at site or at any testing laboratory or institution as directed by the Engineer.

**2.8 Rejection**

Any materials that have been found not to conform to the specifications will be rejected forthwith and shall be removed from the site by the contractor at his own cost within 15 days

**2.9 Workmanship**

All works shall be true to level, plumb and square and the corner, edges and arises in all cases shall be unbroken and neat and shall be as per provisions in the relevant Technical

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Specifications / Standard Codes of Practices. Contractor shall also submit Quality Assurance Programme and Methods Statements for special works to be done within MC within 7 days of acceptance of tender before the start of work for approval of Engineer-in-Charge.



### **SECTION 3**

#### **TENDER PRICES AND SCHEDULE OF PAYMENT**

##### **3.1 Tender Prices**

- 3.1.1 a. Unless explicitly stated otherwise in the Tender Documents, the contractors shall be responsible for the whole works, based on the work orders issued by the competent authority and payment shall be as per accepted rates based on the items carried out as per the work orders issued by the competent authority as and when required.
- b. The rate quoted by the tenderer is inclusive of all duties, taxes, fees, octroi and other levies, materials, labour etc.

##### **3.1.2 Schedule of Payment**

The payment will be made on actual basis as per the accepted rates based on the activities carried out as per the work orders issued by the competent authority as and when required. The payment will be made as per measurement recorded in the measurement sheet & on account bill submitted by the contractor and verified by the engineer.