

TENDER NO.DMRC/20/II-288/ARCH/CHANDIGARH

# **DELHI METRO RAIL CORPORATION**

(A JOINT VENTURE OF GOVT. OF INDIA AND GOVT. OF DELHI)

## **ARCHITECTURAL PLANNING of STATIONS**

**FOR**

**DETAILED PROJECT REPORT (DPR)**

**PROPOSED PHASE - I OF CHANDIGARH  
METRO RAIL PROJECT**



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

METRO BHAWAN, FIRE BRIGADE LANE,  
BARAKHAMBA ROAD, NEW DELHI – 110 001

# NOTICE INVITING TENDER

TENDER NO.DMRC/20/II-288/ARCH/CHANDIGARH

Date: 22.06.2011

## 1.1 GENERAL

DMRC invites sealed tender in prescribed proforma on open Tender basis, for the following works of preparation of DPR for proposed Phase-I of Chandigarh Metro Rail Project (approx 33 km)

Description of work	Estimated value of the Work	Earnest Money Deposit (EMD)	Period of completion	Last date for submission of tenders
Architectural functional planning of metro stations (Elevated and Underground)for the DPR of the proposed Phase-I of Chandigarh Metro Rail Project (Approx 28 stations)	15.44 Lacs	30,900	2 (two) Months	As per para 1.2.5 below

## 1.2 POINTS TO BE NOTED

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

1.2.2 The agencies qualifying as per eligibility criteria mentioned the clause 1.2.3 should only quote.

1.2.3 The qualifying criteria is as under :-

- i.) The agencies would have done in the last 5 years (The year ending on the last day of previous month to the month in which application is invited) the planning of metro stations costing
  - a.) One work of 80% of estimated cost of the work.
  - or
  - b.) Two works of each costing 50% of the estimated cost of the work.
  - or
  - c.) Three works of each costing 40% of the estimated cost of the work.

Note: agency to submit the certificate of completion such works from the clients.

- ii.) The agencies should have the average annual financial turnover during the last 3 years, ending 31<sup>st</sup> March of previous financial year of at least 80% of the estimated cost.

The offer of the agency not qualifying the above criteria will summarily be rejected without assigning any reason

1.2.4 Tender document consists of following sections:

- i) Notice Inviting Tender
- ii) Instructions to Tenderers
- iii) Scope of work
- iv) Technical Specifications
- v) Special Conditions of Contract
- vi) Bill of Quantities

The cost of the Tender document is **Rs.5250/- inclusive of 5% DVAT**, which has to be paid in the form of DD at the time of submission of offer along with EMD.

**1.2.5** Completed tender should be submitted to the office of ED/Civil, DMRC, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi – 110001, Telefax No.011-23418412 by **29.07.2011 at 15:00 Hrs. Tender will be opened on the same date by 15:30 Hrs.**

1.2.6 The contract shall be governed by the documents listed in para 1.2.4 above.

1.2.7 Conditional offer or offer with deviations from the Conditions of Contract or other requirements stipulated in this tender document is likely to be rejected as non-responsive.

1.2.8 DMRC reserves the right to accept or reject the tender offer without assigning any reasons. Tenderer shall not have any cause of action or claim against the DMRC for rejection of his proposal.

**(sd)**  
**ED/Civil**  
**Delhi Metro Rail Corporation.**

## SECTION 1.0

# INSTRUCTIONS TO TENDERERS

### 1.0 INTRODUCTION

1.1 DMRC Limited hereinafter called the 'Employer' for works in accordance with this tender. The tender papers consist of the following sections in the tender document:

Notice Inviting Tender (NIT)  
Instructions to Tender's (ITT)  
Scope of work  
Technical specifications  
Special conditions of Contract (SCC)  
Bill of Quantities

1.2 Tender shall be prepared and submitted in accordance with the instructions given herein.

1.3 Relevant address for correspondence relating to this tender is given below:

ED/Civil, DMRC, Metro Bhawan, 13 Fire Brigade lane, Barakhamba Road, New Delhi – 110001, Telefax No. 011-23418412.

1.4 Some essential data/requirements pertaining to this Tender are detailed below:

- a. Earnest Money Deposit (EMD) to be furnished by the Tenderer for the amount as mentioned in NIT in favour of *DMRC Limited* in the form of demand draft drawn on any Scheduled bank payable at New Delhi. The cost of the Tender document is Rs.5250/- inclusive of 5% DVAT, which has to be paid in the form of DD in favour of DMRC Ltd, payable at New Delhi at the time of submission of offer along with EMD
- b. Tender will be accepted in the office of ED/Civil, DMRC, Metro Bhawan, Fire Brigade Lane, Barakhamba Road, New Delhi – 110001, Telefax No.011-23418412 as per time and date of opening of tender given in para 1.2.5 of NIT.
- c. Period for which the tender is to be kept valid is 60 days from the opening date of Tender.
- d. Period of commencement of work will be 3 days from the date of issue of "Letter of acceptance".

- e. Period of completion as indicated in para 1.1 of NIT and para 2.3 from the date of issue of "Letter of acceptance". However progress of work to be furnished weekly from 1st week.
  - f. The following documents will be required to be submitted by the tenderer along with tender:
    - i) Tender Documents duly signed and stamped on each page.
    - ii) List of equipments proposed to be deployed on work.
    - iii) List of staff proposed to be deployed on work.
- 1.5 Tenderer, or any associate will be required to confirm and declare in the tender submittal that no agent, middleman or any intermediary has been, engaged to provide any services, for award of this contract.
- 1.6 **SITE VISIT**
- 1.6.1 Any site information given in this tender document is for reference only. The tenderer is advised to visit and examine the Site of Works and its surroundings at his/their cost and obtain all information that may be necessary for preparing the tender and entering into a contract.
- 1.6.2 The agency shall be deemed to have inspected the Site and its surroundings beforehand and taken into account all relevant factors pertaining to the site in the preparation and submission of the Tender.
- 1.7 **CONTENTS OF TENDER DOCUMENTS.**
- 1.7.1 The tenderer is expected to examine carefully all the contents of the tender documents including instructions, conditions, terms, specifications and drawings and take them fully into account before submitting his offer. Failure to comply with the requirements as detailed in these documents shall be at the tenderer's own risk. Tenders which are not responsive to the requirements of the tender documents will be rejected.
- 1.8 **CLARIFICATION ON TENDER DOCUMENTS.**
- 1.8.1 While all efforts have been made to avoid errors in the drafting of the tender documents, the tenderer is advised to check the same carefully. No claim on account of any errors detected in the tender documents shall be entertained.

## **1.9 AMENDMENT TO TENDER DOCUMENTS.**

- 1.9.1 At any time prior to the deadline for the submission of tenders, the Engineer may, for any reason, whether at his own initiative or in response to a clarification or query raised by a prospective tenderer, modify the tender documents by an amendment.

The said amendment in the form of an addendum will be sent to all prospective tenderers who have received the tender documents, to reach them 2 days prior to the deadline for the submission of tenders. This communication will be in writing or by telefax and the same shall be binding upon them. Prospective tenderers should promptly acknowledge receipt thereof by telefax to the Engineer.

In order to afford prospective tenderers reasonable time for preparing their tenders after taking into account such amendments, the Engineer or the Employer may, at his discretion, extend the deadline for the submission of tenders.

## **1.10 LANGUAGE OF TENDER.**

- 1.10.1 The tender prepared by the tenderer and all correspondence and documents relating to the tender exchanged between the tenderer and the Employer/Engineer shall be in the English language.

## **1.11 TENDER PRICES**

- 1.11.1 The tenderer is required to quote for all the items as per tender documents.
- 1.11.2 The rate for each item shall be reasonable and not unbalanced. If the Engineer comes across any unbalanced rates, he may require the tenderer to furnish detailed analysis to justify the same. Should the tenderer fail to comply with this, his tender shall be liable to be rejected by the employer, who may award the contract to any other tenderer.
- 1.11.3 The tenderer shall keep the contents of his tender and rates quoted by him confidential.

## **1.12 CURRENCIES OF THE TENDER**

Tender prices shall be quoted in Indian Rupees only.

## **TENDER VALIDITY**

The tender shall remain valid and open for acceptance for a period of 60 days as specified in para 1.4(c).

### **1.13 EARNEST MONEY DEPOSIT (EMD)**

- 1.13.1 The tenderer shall furnish, as Earnest Money Deposit (EMD) as specified in para 1.4 (a) above.
- 1.13.2 The Earnest Money Deposit (EMD) shall be in the form of a bank draft on any Scheduled bank payable at New Delhi.
- 1.13.3 The Earnest Money Deposit (EMD) shall be returned after successful completion of work.
- 1.13.4 Earnest Money Deposit (EMD) will be forfeited in the following cases
  - a. If the Tenderer withdraws / modifies his tender during the period of tender validity
  - b. If the tenderer does not accept the correction of his tender in pursuance to clause 1.22
  - c. If the tenderer after award of work, does not start the work within the stipulated time period as per letter of award
- 1.13.5 No interest will be payable by the Employer on the Earnest Money Deposit (EMD) amount cited above

### **1.14 Signing of the Tenders**

- 1.14.1 Entries to be filled in by the Tenderer shall be typed or written in indelible ink. Each page of the documents should be signed in full at the bottom by the person submitting the Tender along with the date of signing.
- 1.14.2 The person signing/initiating the documents shall be one who is duly authorised in writing by or for and on behalf of the Tenderer and/or by a Statute Attorney of the Tenderer. Such authority in writing in favour of the person signing the tender and/or notarially certified copy of the Power of Attorney as the case may be, shall be enclosed along with the tender.
- 1.14.3 The complete tender shall be without alterations, overwriting, interlineations or erasures except those to accord with instructions issued by the Employer, or as necessary to correct errors made by the tenderer. All amendments/corrections shall be initialed by the person or persons signing the tender.

### **1.15 SUBMISSIONS OF TENDERS**

- 1.15.1 Tender must be delivered at the place and time as indicated in para 1.4 (b) above in a sealed envelope duly marked on top with Tender Number and Name of work. The Employer/Engineer may, at his discretion, extend this date for the submission of tender by amending the Tender Documents. If such nominated date for submission of tender is subsequently declared as a Public Holiday by the Employer, the next official working day shall be deemed as the date for submission of tender.
- 1.15.2 Tender shall be submitted in time to the office of ED/Civil, DMRC. The Engineer/Employer cannot take any cognisance and shall not be responsible for delay in transit.
- 1.15.3 Tender sent telegraphically or through other means of transmission (telefax etc.) which cannot be delivered in a sealed envelope shall be treated as defective, invalid and shall stand rejected.
- 1.16 Tenderer will quote his rate only in single percentage above or below the rates furnished in Bill of Quantity (BOQ) given in section-5.

#### **1.17 TENDER OPENING**

- 1.17.1 The employer or his authorised representative will open the tender in the presence of tenderers or their representatives who choose to attend on the date and time indicated in para 1.4 (c) above in the office of the ED/Civil, DMRC, Metro Bhawan, 13 Fire Brigade lane, Barakhamba Road, New Delhi - 110001. If such nominated date for opening of tender is subsequently declared as a Public Holiday, the next official working day shall be deemed as the date of opening of Tender.
- 1.17.2 The Employer/Engineer will examine the tenders to determine whether they are complete, whether the requisite Earnest Money Deposit (EMD) has been furnished, whether the documents have been properly signed and whether the tenders are in order in all respects.
- 1.17.3 The tenderer's name, the presence or absence of the requisite Earnest Money Deposit (EMD) and such other details will be announced at the time of tender opening by the Employer or his authorised representative.

#### **1.20 PROCESS TO BE CONFIDENTIAL**

- 1.20.1 Except the public opening of Tender information relating to the examination, clarification, evaluation and comparison of tenders and recommendations concerning the award of contract shall not be disclosed to tenderers or other persons not officially concerned with such process.



- 1.20.2 Any effort by a tenderer to influence the Employer/Engineer in the process of examination, clarification, evaluation and comparison of tenders and in decisions concerning award of contract, may result in the rejection of his tender.

## **1.21 CLARIFICATION OF TENDERS**

- 1.21.1 To assist in the examination, evaluation and comparison of Tenders, the Engineer / Employer may ask tenderers individually for clarification of their tenders, including breakdowns of prices. The request for clarification and the response shall be in writing or by telefax but no change in the price or substance of the tender shall be sought, offered or permitted except as required to confirm correction of arithmetical errors discovered by the Engineer during the evaluation of tenders.

- 1.21.2 Prior to the detailed evaluation of tenders, the Engineer will determine whether each tender is responsive to the requirements of the tender documents.

- 1.21.3 The Employer/Engineer will award, the contract to the tenderer, whose tender has been determined to be substantially responsive, complete and in accordance with the tender documents and whose evaluated Price has been determined to be the lowest. Negotiations, if any, shall be carried out with lowest responsive tenderer.

## **1.22 EMPLOYER'S RIGHT TO ACCEPT ANY TENDER AND TO REJECT ANY OR ALL TENDERS**

- 1.22.1 Notwithstanding Clause 1.21.3, the Employer reserves the right to accept or reject any tender, and to annul the tender process and reject all tenders, at any time prior to award of contract, or to divide the contract between / amongst tenderers without thereby incurring any liability to the affected tenderer or tender's or any obligations to inform the affected tenderer or tender's of the grounds for the Employer's action.

## **1.23 NOTIFICATION OF AWARD**

- 1.23.1 Prior to the period of tender validity prescribed by the Engineer / Employer, the Engineer / Employer will notify the successful tenderer by telegram or telefax to be confirmed in writing by registered letter, that his tender has been accepted. This letter (hereinafter and in the conditions of Contract called the Letter of Acceptance) shall indicate the accepted tender amount, which the Employer will pay to the contractor in consideration of the execution and completion of the works by the contractor as prescribed by the contract (hereinafter and in the conditions of contract called the Contract Price). The "Letter of acceptance" will be sent in duplicate to the successful tenderer, who will return one copy to the Employer duly acknowledged and signed by

the authorised signatory, within two days of receipt of the same by him. No correspondence will be entertained by the Employer from the unsuccessful Tenderers.

1.23.2 The “Letter of Acceptance” will be a part of the contract.

#### **1.24 SIGNING OF AGREEMENT**

1.24.1 The Engineer/Employer shall prepare the Agreement in the Proforma included in this Document, duly incorporating all the terms of agreement between the two parties. However, the successful tenderer shall arrange the necessary Non-judicial stamp papers of requisite value and attend the DMRC office to execute the agreement within two weeks of the date of receipt of the “Letter of acceptance” duly acknowledged and signed by the successful tenderer. Up on executing the agreement the original agreement will be retained by the employer and one copy of the Agreement duly signed by the Employer and the Contractor through their authorised signatories, will be supplied by the Employer to the contractor.

## FORM OF AGREEMENT

(TO BE EXECUTED ON A RS.100/- NON-JUDICIAL STAMP PAPER)

**Name of the work: Architectural work of the DPR of the proposed Phase-I of Chandigarh Metro Rail Project.**

This Agreement is made on the ----- day of ----- 2011 between DMRC, hereinafter called “the Employer” of the one part and M/s \_\_\_\_\_, hereinafter called “the contractor” of the other part.

Whereas the Employer is desirous that “Architectural work as Detailed in “Section 2.0 - Scope of work” hereinafter called the “the Works” and has accepted a Tender by the contractor for the execution and completion of such works.

NOW THIS AGREEMENT WITNESSETH as follows:

1. In this Agreement words and expression shall have the same meanings as are respectively assigned to them in the conditions of contract hereinafter referred to.
2. The following documents shall be deemed to form and be read and construed as part of this Agreement viz.
  - a. TENDER NO.DMRC/20/II-288/ARCH/CHANDIGARH: comprising of Notice Inviting Tender, Instructions to Tenderers, and Scope of work, Technical Specifications, Special Conditions of Contract and Bill of Quantities.
  - b. Your offer through your letter No. -----.
  - c. Our Letter of acceptance NO.DMRC/20/ARCH/CHANDIGARH/11, dated ----

In consideration of the payment to be made by the Employer to the contractor as hereinafter mentioned, the contractor hereby covenants with the Employer to execute and complete the works by ----- and remedy any defects therein in conformity in all respects with the provisions of the contract.

The Employer hereby covenants to pay the contractor in consideration of the execution and completion of the works and the remedying of defects therein, the Contract price of Rs. ----- being the sum stated in the letter of acceptance subject to such additions thereto or deductions there from as may be made under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS WHEREOF the parties hereto have caused their respective Common Seals to be hereunto affixed / (or have hereunto set their respective hands and seals) the day and year first above written.

For and on behalf of the Contractor

For and on behalf of the Employer

Signature of the authorised Official

signature of the authorised official.

Name of the official  
Stamp/Seal of the contractor

Name of the official  
Stamp/Seal of the Employer

SIGNED, SEALED AND DELIVERED

By the said

By the said

-----

-----

Name \_\_\_\_\_  
On behalf of the contractor in  
The presence of \_\_\_\_\_

Name \_\_\_\_\_  
On behalf of the Employer  
in the presence of \_\_\_\_\_

Witness  
Name  
Address

Witness  
Name  
Address

## SECTION 2

# SCOPE OF WORK

### 2.0 GENERAL

The work mainly comprises of Architectural planning of stations for the DPR of the proposed Phase-I of Chandigarh Metro Rail Project. Stations shall be designed in adequate detail so that there are no major changes during the detailed design stage. Agency will make the requisite number of trips to Chandigarh at its own cost for studying the station locations proposed by DMRC.

### 2.1 WORK CONTENT

#### 2.1.1 Architecture

- a. Based on alignment, site conditions, traffic projections, design criteria and any other specific requirement of DMRC, provide designs for all interchange stations, underground and elevated stations (including ancillary buildings). Unique type of station means only space arrangement and plan to be unique. For repetitive stations, the exit/entries will be planned suiting to the site and to be location specific.
- b. Based on traffic projections provided by DMRC calculate sizing for stations ensuring that station designs meet DMRC's criteria for emergency evacuation ( NFPA 130 for underground station and National Building Code for elevated stations).
- c. Provide all operational rooms as per DMRC requirements and arrange them logically at appropriate locations on stations based on past experience.
- d. Design entry/exist structure as per site conditions in a way that it meets emergency evacuation criteria, responds to other modes of transportation (existing and proposed) and merges into the local urban fabric. Realign existing roads where essential, to enable better functioning of the station.
- e. Provide sections indicating clear heights available at all levels.
- f. Assessment of land requirement for permanent structures at ground level and parking.
- g. Preparation of chapter on station planning to be incorporated in the DPR.

#### 2.1.2 Structure:

- a. Designs shall be resolved based on past experience. Designs shall indicate the intended structural system for which geometry and sizing can be done during the detailed design stage.
- b. For the purpose of presentation, sizing of structural elements shall be based on past experience and information provided by DMRC for stations already constructed.

### **2.1.3 E&M Design:**

- a. Spaces provision for E&M services shall be provided based on the design criteria of DMRC.
- b. Designs shall be resolved conceptually, based on past experience.
- c. Station design shall incorporate shafts for each utility, cable and pipe routing shall be indicated in plan and section with single lines, to give a workable idea of the scheme based on past experience. Sizing of cables/pipes and other details for each utility can be worked out during the detailed design stage.
- d. For underground stations, sizing of spaces and there general locations shall be based on designs of stations already constructed.

### **2.1.4 Items of Submission for each Station:**

- a. Plans:
  - i. Site plan
  - ii. Road level plan indicating permanent land requirement for station parking area
  - iii. Concourse level plan
  - iv. Platform level plan
  - v. Roof level plan
  - vi. Ancillary building plans
- b. Sections & Elevations:
  - i. Two short sections
  - ii. One long section
  - iii. Section through interchange provision
  - iv. One long elevation, for elevated stations only
  - v. One short elevation, for elevated stations only
- c. Documents
  - i. Calculations for emergency evacuation for each station design
  - ii. Calculation for platform width, Ticket gates, POM, BOM, etc.
  - iii. Covered areas statement
  - iv. Chapter on station planning

### **2.1.5 Format for Submission:**

- |   |        |
|---|--------|
| a. All drawings shall be submitted in A3 size prints    | 3 sets |
| b. All documents shall be submitted on A4/A3 size paper | 3 sets |
| c. Soft copies in .dwg, .doc, .xls, .pdf formats        | 3 sets |

## **2.2 MATERIALS**

### **2.2.1 Quality**

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

### **2.2.2 Rejection**

Any material found not to conform to the specifications shall be rejected forthwith and shall have to be removed from the site by the contractor at his own cost.

Any work not to the satisfaction of the engineer or his representative will be rejected and same shall be rectified, or removed and replaced with work of required standard of workmanship at no extra cost.

## **2.3 TIME SCHEDULE**

The Contractor shall submit all deliverables as per the tender "Time Schedule" for completion of various items of work. This schedule is to be within the overall completion period of 2 months from the date of Topo survey sheets are handed over to him in soft. The tentative location of station will also be marked by DMRC in these Topo sheets.

The site visit, submission of calculation for platform width, ticket gates, POM, BOM based on traffic projections is to be completed in 3 weeks time from commencement of work with all corrections and checking. The processed data in electronic copy shall be supplied to engineer in charge after 3 weeks in stages and shall be completed within 6 weeks.

The detailed programme in the form of a quantified bar chart or CPM network shall include all activities starting from beginning to completion.

Any extension of time required for final design of stations due to finalisation of alignment shall be considered by Engineer-in-charge on the request of agency.

## **2.4 Data to be furnished by DMRC**

The following data shall be furnished by DMRC Ltd. without any cost to the agency

- i.) Soft copy of route alignment with marking of alignment and station locations.
- ii.) Traffic projections for various horizon years.
- iii.) Boarding/alighting loads of stations.
- iv.) Station load for each direction
- v.) Modal split of station traffic loads.



## **SECTION – 3**

### **SITE INFORMATION**

#### **WORK SITE**

The project site is located in the area of Chandigarh Urban Complex, which includes Mohali and Panchkula also.

The tentative route alignment is shown as follows.

- (i) Line 1 – from Sector 15, Panchkula to Mullanpur via Sector 5 (Panchkula), Dhillon Complex, Chandigarh Railway Station, Transport Nagar, Sector 19, PGI, Punjab University..
- (ii) Line 2 – from Secretariat to Aerocity (Mohali) via Rock Garden, Sector 9, Aroma Chowk, Sector 43, Sector 52 (Mohali), Sector 72 (Mohali) Aerocity.

## **SECTION 4.0**

### **SPECIAL CONDITIONS OF CONTRACT**

#### **4.1 Work Program**

The contractor shall submit the work program before the start of work and submit 2 copies of weekly progress report to DMRC, clearly indicating the target achieved and programme for next week.

#### **4.2 Safety precautions during progress of works**

The contractor shall take all precautions to ensure safety of the staff, existing utility services, adjoining structures etc., during progress of work. The contractor shall also make necessary arrangement for the safety of his workers, if any accident occurs, the entire responsibility fall on the part of the contractor.

#### **4.3 Damage to Government property or private life & property.**

The contractor shall be responsible for all risks to the works and for trespasses and shall make good at his own expense all loss or damage whether to the works themselves or to any other property of the Government (including Utility Services). DMRC is not responsible for the lives of persons or property of others whatsoever may be the cause in connection with or as a result of the execution of works even though all reasonable and proper precautions may have been taken by the contractor. Such cost, loss or damages or compensation (including that payable under the provisions of the Workmen's Compensation Act or any statutory amendments thereof) to any person or persons sustaining damage as omission on the part of the contractor, is to be borne by the contractor.

The amount of any costs or charges (including costs and charges in connection with legal proceedings), which may incur in reference thereto, shall be charged to the or to defend or comprise any claim or threatened legal proceedings or in anticipation of legal proceedings being instituted consequent to the action or default of the contractor to take such steps as may be considered necessary or desirable to ward off mitigate the effect of such proceedings, charging to the contractor as aforesaid any sum or sums of money which may be paid and any expenses whether for reinstatement or otherwise which may be incurred and the propriety of any such payment, defense or comprise and the incurring of any such expenses shall not be called in question by the contractor.

#### **4.4 Risks and Cost**

In case contractor fails to complete work as per schedule, DMRC has discretion to get the work done completed by any other agency at risk and

cost of the agency to which the work has initially been awarded by giving seven days notice.

#### **4.5 Deleted**

#### **4.6 Taxes and Levies**

All statutory liabilities as per applicable laws and act at site will be borne by contractor, DMRC will not entertain any claim in this regard. Income tax as per rules shall be deducted from each bill.

#### **4.7 Liquidated Damages**

Time is essence of the contract and it shall be strictly adhered to. In case of any delay not attributed to DMRC in the execution of work beyond stipulated time period, DMRC may recover as liquidated damage from contractor at the rate of 1/2 (half) percent of contract value per week of delay or part thereof, limited to 10 (ten) percent of total value of the contract.

#### **4.8 Force Majeure**

War, invasion, revolution, riot, sabotage, lockouts, strikes, work shut down imposed by Government, acts of legislative or other authorities, stoppage in supply of raw materials, fuel or electricity, break down of machinery by mob or mass, act of God, epidemic, fires, earthquakes, floods, explosives, accidents and navigation blockages, or any other acts or events whatsoever, which are beyond reasonable controls of contractor and which shall directly or indirectly prevent completion of project within the time specified in the agreement, will be considered Force Majeure. DMRC shall grant necessary extension of completion date to cover the delays caused by Force Majeure without any financial repercussions.

#### **4.9 Settlement of disputes.**

Matters will be finally determined by DMRC. All disputes and differences of any kind whatsoever arising out of or in connection with the contractor, whether during the progress of the works or after their completion and whether before or after the determination of the contract shall be referred by the contractor to and DMRC shall within a reasonable time after their presentation made and notify decisions thereon in writing. The decisions, directions, classification, measurements drawings and certificates with respect to any matter the decision of which is specially provided for by these or other special conditions, given and made by the DMRC or a by the Engineer on behalf of the DMRC, are matters which are referred to hereinafter as accepted matters and shall be final and binding upon the contractor and shall not be set aside on account of any infirmity, omission, delay or error in proceedings, In or about the same or any other ground or for any other reasons and shall be without appeal.

In the event of any dispute or differences between the parties hereto as to the construction or operation of this contract or the respective rights and liabilities of the parties on any matter in question, dispute or differences on any account, or as to the withholding by DMRC of any certificate to which the contractor may claim to be entitled to or if the DMRC fails to make a decision within a reasonable time, then and in any such case, the contractor after 30 days of presenting his final claim on disputed matter may demand in writing that the dispute or differences be referred to arbitration. Such demand for arbitration shall specify the matters which are in question dispute or differences and only such disputes or differences of which the demand has been made and no other, shall be referred to arbitration, obligations during tendency of arbitration work under the contract, shall unless otherwise directed by the Engineer, continue during the arbitration proceedings and no payment due or payable by DMRC. shall unless withheld on account of such proceeding, provided however, it shall be open for the arbitrator or arbitrators to consider and decide whether or not such work should continue during arbitration proceedings.

#### **4.10 Arbitration**

Matters in question, dispute or differences to be arbitrated upon shall be referred to for decision to a sole arbitrator who shall be a nominated person appointed by Management of DMRC, whose decision shall be final and binding to the contractor.

The work shall be continued as per programme during pendency of arbitration.

#### **4.11 Schedule of payment.**

Payment shall be made as per the following schedule:

S.No.	Description	% of total remuneration
1	On completion of first site visit, submission of calculation for platform width, ticket gates, POM, BOM based on traffic projections.	10
2	On submission of draft station design.	40
3	On submission of final designs.	20
4	On submission of draft chapter on station planning.	20
5	On final submission of chapter on station planning.	10
Total %		100

#### **4.12 DELIVERABLES**

The following drawings, reports, documents etc. shall be submitted by the Contractor/Sub-consultant as per time frame indicated below:

a) Completion of first site visit, submission of calculation for platform width, ticket gates, POM, BOM based on traffic projections	2 weeks from the date of commencement of work.
b) Submission of preliminary station design	4 weeks from the date of commencement of work.
c) Submission of final designs and documents.	6 weeks from the date of commencement of work.
d) Submission of final chapter on station planning	8 weeks from the date of commencement of work.

#### **4.13 On Account Payment**

The Contractor shall be entitled to take from time to time by way of on account Payments only for such works as in the opinion of DMRC he has executed in terms of the Contract. A certificate of measurement shall be subject to any deduction which may be deemed necessary by DMRC for non-execution of any work or any part of the work.

#### **4.14 Running payments not prejudicial to final settlement**

Running payment made to the contractor shall be without prejudice to the final payment of accounts (except where measurements are specifically noted in the measurements book as final measurements and as such have been signed by the contractor) and shall in no respect be considered or used as evidence of any facts stated or in or to be inferred from such accounts not of any particular quantity of works having been executed nor of the manner of its execution being satisfactory.

#### **4.15 Certificate of completion of work**

As soon as in the opinion of the Engineer-in-Charge, the work shall have been substantially completed the Engineer-in-Charge shall issue a certificate of completion in respect of work.

#### **4.16 Escalation**

No escalation in rates shall be allowed on any account.

#### **4.17 Performance Security**

Performance Security 10% of contract award value is to be deposited within 10 days from the award of the contract either in the form Demand Draft or Bank Guarantee valid upto completion period plus two months.

Engineer in Charge will refund the security deposit only after the completion of work in all respects by the contractor and formal issue of completion certificate by the Engineer.

#### **4.18 Alteration to scope of work**

DMRC Engineers or representative shall have power to make any alteration, omission addition substitution for the original work. No claim whatever on account of above shall be entertained except the payment for the actual work done.

#### **4.19 DELETED**

#### **4.20 Other Conditions**

In case of premature termination, no extra compensation shall be payable. Payment of remuneration in that case will be made to the extent the services rendered till that time can be made use of by DMRC limited to the period for which the agency had actually rendered the service and subject to the intermediate targets being adhered to as per the work schedule mutually agreed to. No notice of termination or remuneration thereof will be necessary and continuance shall be solely at the discretion of DMRC.

All the documents and drawings created out of the assigned work will become the sole property of the DMRC and DMRC will be free to use the same in any manner deemed fit.

The agency will exercise all responsible skill, care and diligence in the performance of the service under this work and shall carry out all the responsibilities with recognized latest professional standards.

## SECTION 5.0

### BILL OF QUANTITIES

Item No.	Description of items	Unit	Quantity	Rate	Amount
1	Design of unique elevated stations	Each	1	75000	75000
2	Design of repetitive elevated unique station	Each	15	40000	600000
3	Design of unique underground stations	Each	1	100000	100000
4	Design of repetitive underground unique station	Each	10	50000	500000
5	Design unique interchange station				
6	a) New - UG, New - UG	Each	1	125000	125000
Total					1400000
Add service tax @10.3%					1544200

Quoted percentage above/below (i) In Digits -----

(ii) In Words -----

#### Note:

1. Tenderer will quote only single % age below/above, in figures as well as in words. Where there is a discrepancy between figures and words, the rate in words will govern.
2. The Quoted rates shall be inclusive of all cost of labour, materials, equipment, preparation of drawing, all incidentals of any kind for proper completion of the work.