



DELHI METRO RAIL CORPORATION LIMITED

(A Joint Venture of Govt. of India & GNCTD)
MASS RAPID TRANSPORT SYSTEM -PHASE III

**“Dismantling and construction of Delhi Fire Station building at Ashram
Chowk”**

**CONTRACT: CPM8(AHRM/DFS
BUILDING)**

TENDER DOCUMENTS

VOLUME -1

**NOTICE INVITING TENDER
INSTRUCTIONS OF TENDERERS
FORM OF TENDER**

DELHI METRO RAIL CORPORATION LTD.

Metro Bhawan, Fire Brigade Lane,
Barakhamba Road,
New Delhi - 110001

**CONTRACT: CPM8(AHRM/DFS BUILDING)
TENDER DOCUMENTS**

VOLUME 1

NOTICE INVITING TENDER

NOTICE INVITING TENDER (NIT)**1.1 GENERAL****1.1.1 Name of Work:**

Delhi Metro Rail Corporation (DMRC) Ltd. Invites open tender applicants, who fulfill qualification criteria as stipulated in Clause 1.1.3 of NIT, for the work “Dismantling and construction of Delhi Fire Station building at Ashram Chowk”

1.1.2 Key details :

Approximate cost of work	Rs. 12613715/- (inclusive of all taxes/duties GST as applicable)
Tender Security amount	Amount of Tender Security:- Rs.1,26,138/- Validity of Tender Security: - 180 days Payment of Tender Security is to be done only by RTGS,NEFT & IMPS and no other mode of payment will be accepted as per clause C18.1.4 of ITT. The bidder will be required to upload the scanned copies of transaction of payment of tender cost/tender fee at the time of bid submission.Details of bank as per clause C18.2 of ITT.
Completion period of the Work	Five months
Tender documents on sale	From 28.05.2019 to 21.06.2019 (upto 11:00 Hrs) on e-tendering website https://eprocure.gov.in/eprocure/app Tender document can only be obtained online after registration of tenderer on the website https://eprocure.gov.in/eprocure/app .
Cost of Tender documents	Rs. 5,900/-i/c of GST (Non-Refundable) Payment of Tender Cost/Tender fees is to be done only by RTGS,NEFT& IMPS and no other mode of payment will be accepted.The bidder will be required to upload the scanned copies of transaction of payment of tender cost/tender fee at the time of bid submission.Details of bank as per clause C18.2 of ITT.
Pre-bid Meeting	08.06.2019 at 11:00 Hrs
Last Date of Seeking Clarifications	10.06.2019 upto 17:30 Hrs. Queries/clarification from bidders after due date and time shall not be acknowledged.
Last date of issuing addendum	15.06.2019
Date & time of Submission of Tender	Tender submission start date: 27.05.2019 (15:00 hrs) Tender submission end date: 21.06.2019 (11:00 hrs)

Date & time of opening of Tender	22.06.2019 at 11:00Hrs.
Authority for issuing tender documents and seeking clarifications& place of pre-bid meeting	Chief Project Manager-8/DMRC ,Ground Floor, Mayur Vihar Phase-I Metro Station,New Delhi – 110091. Phone no-011-22754713 FAX no- 011-22754657

1.1.3 QUALIFICATION CRITERIA :

1.1.3.1 Eligible Applicants :

i. The tenders for this contract will be considered only from those tenderers (proprietorship firms, partnerships firms, companies, corporations, consortia or joint ventures) who meet requisite eligibility criteria prescribed in the sub-clauses of Clause 1.1.3 of NIT. In the case of a JV or Consortium, all members of the Group shall be jointly and severally liable for the performance of whole contract.

ii.Deleted

iii.A tenderer shall submit only **one bid in the same tendering process**, either individually as a tenderer or as a partner of a JV. A tenderer who submits or participates in, more than one bid will cause all of the proposals in which the tenderer has participated to be disqualified. No tenderer can be a subcontractor while submitting a bid individually or as partner of a JV in the same bidding process. A tenderer, if acting in the capacity of subcontractor in any bid, may participate in more than one bid, but only in that capacity.

iv. Deleted

v. (a)DMRC/any other metro organisation (100% owned by Govt.)/Ministry of Housing & Urban affairs/order of ministry of commerce, applicable for all ministries must not have banned business with the teneederer (including any member in case of JV/consortium) as on the date of teneederer submission. The tenderer should submit undertaking to this effect in Appendix-19 of form of tender.

v. (b) Also no contract of the value more than 10% of NIT cost of work, executed either individually or in JV/Consortium,should have been rescinded/ terminated by DMRC/any other metro organisation (100% owned by Govt.) after award during last 03 years (from the last day of the previous months of tenderer submission) due to non-performance of the tenderer or any of JV/Consortium member. The tenderer should submit undertaking to this effect in **Appendix-19** of Form of tender.

v. (c) The Overall performance of the tenderer (all members in case of JV/Consortium seperatly) shall be examined for all the ongoing civil engineering/~~Electrical/Signalling/System/Traction works~~ awarded by DMRC/any other metro organisation (100% owned by Govt.) of value more than 40% of NIT cost of work and also for all completed Civil engineering/ ~~Electrical/ Signalling/ System/ Traction works~~ awarded by DMRC/any other metro organisation (100% owned by Govt.) within last one year (from the last day of previous month of tender submission), of value more than 40% of NIT cost of work executed either individually or in a JV/consortium. The tenderer shall provide list of all such works in the prescribed performa given in **Appendix-19A** of the form of Tender. The tenderer (all members i case of JV/Consortium seperatly) may either submit satisfactory

performance certificate issued by the client/employer for the works or give an undertaking regarding satisfactory performance of work with respect to completion of work/execution of work (ongoing works) failing which their tender submission shall be considered non-responsive and non-compliant to the tender conditions. In case of non- submission of either satisfactory performance certificate from client/employer/ or undertaking of satisfactory performance of any of the above work, the performance of such work shall be treated as unsatisfactory while evaluating the overall performance of the tenderer in terms of note (b) of **Appendix-19A**. In case of performance certificate issued by the client, same should not be older than three month (from last day of previous month of tenderer submission for ongoing works.

V (d). Tenderer (Including any member in case of JV/consortium) for the works awarded by DMRC/any other metro organisation (100% owned by Govt.) must have been neither penalised with LD of 10% (or more) nor reimposed with LD of 10%(or more) of the contract value due to any other reason in any civil Engineering / Electrical / Signalling/ system / Traction works contract of value more than 10% of NIT cost of work, during last three years. the tenderer should submit undertaking to this effect in **Appendix-20** of Form of Tender.

V (e). If the tenderer or any of the constituent 'substantial member(s)' of JV/Consortium does not meet the criteria stated in the **Appendix 19, 19A or Appendix-20**, the tenderer including the constituent 'substantial member(s)' of JV/Consortium shall be considered ineligible for participation in tender process and they shall be considered ineligible applicants in terms Clause 1.1.3.1 of NIT.

V (f). If there is any misrepresentation of facts with regards to the undertaking submitted vide **Appendix-19** or performance in any of the works reported in **Appendix-19A or undertaking submitted vide Appendix-20**, the same will be considered as "fraudulent practice" under clause 4.33.1 a (ii) of GCC and the tender submission of such tenderers will be rejected besides taking further action as per clause 4.33.1 (b), (c) & 13.2.1 of GCC.

vi) Tenderer must not have suffered bankruptcy/ insolvency during the last 5 years. The tenderer should submit undertaking to this effect in **Appendix-21** of Form of Tender.

1.1.3.2 Minimum Eligibility Criteria:

A. Work Experience: The tenderers will be qualified only if they have completed work(s) during last five years ending 31.03.2019 as given below:

(i) At least one "similar work"* of value of **INR 1.01 crore** or more.

OR

(ii) Two "similar works"* each of value of **INR 63.07 lakhs** or more.

OR

(iii) Three "similar works"* each of value of **INR 50.45 lakhs** or more.

*The **Similar works** for above for this contract shall be works "Construction of building"

Notes:

- The tenderer shall submit details of works executed by them in the Performa of Appendix-17 of FOT for the works to be considered for qualification of work experience criteria. Documentary proof such as completion certificates from client clearly indicating the nature/scope of work, actual Completion cost and actual date

of completion for such work should be submitted. The offers submitted without this documentary proof shall not be evaluated. In case the work is executed for private client, copy of work order, bill of quantities, bill wise details of payment received certified by C.A., T.D.S certificates for all payments received and copy of final/last bill paid by client shall also be submitted.

- Value of successfully completed portion of any on-going work up to 31.03.2019 will also be considered for qualification of work experience criteria.
- For completed works, value of work done shall be updated to 31.03.2019 price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year. The exchange rate of foreign currency shall be applicable 28 days before the submission date of tender.
- In case of joint venture/Consortium, full value of the work, if done by the same joint venture shall be considered. However, if the qualifying work(s) were done by them in JV/Consortium having different constituents, then the value of work as per their percentage participation in such JV/ Consortium shall be considered.
- If the above work work(s) i.e.Framed Partition Work/ False Ceiling work & miscellaneous building Civil & Electrical works etc. for buildings comprise other works, then client's certificate clearly indicating the amount of work done in respect of the "similar work" shall be furnished by the tenderer in support of work experience along with their tender submissions.

B. - Financial Standing: The tenderers will be qualified only if have minimum financial capabilities as below:

- (i) **T1 – Liquidity:** It is necessary that the firm can withstand cash flow that the contract will require until payments received from the Employer. Liquidity therefore becomes an important consideration.

This shall be seen from the balance sheets and/or from the banking reference. Net current assets and/or documents including banking reference (as per proforma given in Annexure-8 of ITT), should show that the applicant has access to or has available liquid assets, lines of credit and other financial means to meet cash flow of **INR 40.36 lacs** for this contract, net of applicant's commitments for other Contracts. Banking reference should contain in clear terms the amount that bank will be in a position to lend for this work to the applicant/member of the Joint Venture/Consortium. In case the Net Current Assets (as seen from the Balance Sheets) are negative, only the Banking references will be considered. Otherwise the aggregate of the Net Current Assets and submitted Banking references will be considered for working out the Liquidity.

The banking reference should be from a Scheduled Bank in India or (in case of foreign parties) from an international bank of repute acceptable to DMRC and it should not be more than 3 months old as on date of submission of bids.

Banking reference should be on the letter head of the bank.

In Case of JV- Requirement of liquidity is to be distributed between members as per their percentage participation and every member should satisfy the minimum requirement.

Example: Let member-1 has percentage participation=M and member-2 has percentage participation=N.

If minimum liquidity required is 'W' then liquidity of member-1 $\geq \frac{W \cdot M}{100}$
and liquidity of member-2 $\geq \frac{W \cdot N}{100}$.

- (ii) **T2 - Profitability:** Profit before Tax should be **Positive in at least 2 (two) years**, out of the last five audited financial years.

In Case of JV: The profitability of only lead member shall be evaluated.

- (iii) **T3 - Net Worth:** Net Worth of tenderer during last audited financial year should be **\geq INR 49.19 lacs**

In Case of JV- Net worth will be based on the percentage participation of each Member.

Example: Let Member-1 has percentage participation = M and Member-2 has =N. Let the Net worth of Member-1 is 'A' and that of Member-2 is 'B', then the Net worth of JV will be = $\frac{AM+BN}{100}$

100

- (iv) **T4 - Annual Turnover:**The average annual turnover from construction of last five financial years should be **\geq INR 2.43 crore**

The average annual turn over of JV will be based on percentage participation of each member.

Example: Let Member-1 has percentage participation = M and Member - 2 has =N. Let the average annual turn over of Member-1 is 'A' and that of Member-2 is 'B', then the average annual turn over of JV will be = $\frac{AM+BN}{100}$

100

Notes :

- Financial data for latest last five audited financial years has to be submitted by the tenderer in Appendix-18 of FOT along with audited balance sheets. The financial data in the prescribed format shall be certified by Chartered Accountant with his stamp membership no and signature. In case audited balance sheet of the last financial year is not made available by the bidder, he has to submit an affidavit certifying that 'the balance sheet has actually not been audited so far'. In such a case the financial data of previous '4' audited financial years will be taken into consideration for evaluation. If audited balance sheet of any year other than the last year is not submitted, the tender will be considered as non-responsive.
- Where a work is undertaken by a group, only that portion of the contract which is undertaken by the concerned applicant/member should be indicated and the remaining done by the other members of the group be excluded. This is to be substantiated with documentary evidence.

1.1.3.3 Bid Capacity Criteria :

Bid Capacity: The tenderers will be qualified only if their available bid capacity is more than

the approximate cost of work as per NIT. Available bid capacity will be calculated based on the following formula:

$$\text{Available Bid Capacity} = 2 \cdot A \cdot N - B$$

Where,

A = Maximum of the value of construction works executed in any one year during the last five financial years (updated to 31.03.2019 price level assuming 5% inflation for Indian Rupees every year and 2% for foreign currency portions per year).

N = No. of years prescribed for completion of the work

B = Value of existing commitments (as on 31.03.2019) for on-going construction works during period of 05 months w.e.f. 01.04.2019.

Notes:

- Financial data for latest last five financial years has to be submitted by the tenderer in **Appendix-15** of FOT along with audited financial statements. The financial data in the prescribed format shall be certified by the Chartered Accountant with his stamp and signature in original with membership number.
- Value of existing commitments for on-going construction works during period of 05 months w.e.f 01.04.2019 has to be submitted by the tenderer in Appendix-16 of FOT. These data shall be certified by the Chartered Accountant with his stamp and signature in original with membership number.
- In case of a group, the above formula will be applied to each member to the extent of his proposed participation in the execution of the work, If the proposed % participation is not mentioned then equal participation will be assumed.

Example for calculation of Bid capacity in case of JV/ Group

Suppose there are “P” and “Q” members of the JV/ Group with their participation in the JV/Group as 70% and 30% respectively and available bid capacity of these members as per above formula individually works out “X” and “Y” respectively, then Bid capacity of JV/ Group shall be as under:

$$\text{Bid Capacity of the JV/ Group} = 0.7X + 0.3Y$$

1.1.3.4 The tender submission of tenderers, who do not qualify the minimum eligibility criteria & bid capacity criteria stipulated in the clauses 1.1.3.2 to 1.1.3.3 above, shall not be considered for further evaluation and therefore rejected. The mere fact that the tenderer is qualified as mentioned in sub clause 1.1.3.2 to 1.1.3.3 shall not imply that his bid shall automatically be accepted. The same should contain all technical data as required for consideration of tender prescribed in the ITT.

1.2 Points to be noted

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

1.2.2 **Tender Documents consisting of following sections:**

The Tender documents consist of :

- Volume-1: Notice Inviting Tender (NIT)
Instructions to Tenderer (ITT) including Annexures
Form of Tender (FOT) including Appendices
- Volume-2: General Conditions of Contracts (GCC)
Special Conditions of Contract (SCC)
- Volume-3: Technical Specifications
- Volume-4: Condition of Contract on Safety, Health & Environment (SHE)
Ver.-1.2
- Volume-5: Tender Drawing of Dismantling and construction of Delhi Fire Station
building at Ashram Chowk
- Volume-6: Volume-6:Bill of Quantities (BOQ)

The contract shall be governed by the documents listed in Para 1.2.2 above with latest version of CPWD specifications 2009 with up to date correction slips. CPWD specifications may be obtained from the department concern or may be purchased from market.

- 1.2.3 All Tenderer are hereby cautioned that tenders containing any material deviation or reservations as described in Clause. E 4.0 of "Instructions to Tenderer" and/or minor deviation without quoting the cost of withdrawal shall be considered as non-responsive and is liable to be rejected.
- 1.2.4 DMRC reserves the right to accept or reject proposal without assigning any reasons. No tenderer shall have any cause of action or claim against the DMRC for rejection of his proposal.
- 1.2.5 The Tenderer may obtain further information/ clarification, if any, in respect of these tender documents from the authority defined in the Key details above
- 1.2.6 The intending tenderer must be registered on e-tendering portal <https://eproure.gov.in/e procure/app>. If 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 tenderer, 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. However, the tenderer shall upload their tender on <https://eprocure.gov.in/e procure/app> using class-II or class-III digital signature of the authorized signatory only.
- 1.2.8 Tender submissions shall be done online on <https://eprocure.gov.in/e procure/app> 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 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.
- 1.2.9 Submission of Tenders shall be closed on e-tendering website of DMRC at the date & time of submission prescribed in NIT after which no tender shall be accepted. It shall be the responsibility of the bidder / tenderer to ensure that his tender is submitted online on e-tendering website <https://eprocure.gov.in/e procure/app> before the deadline of

submission. DMRC will not be responsible for non-receipt of tender documents due to any delay and/or loss etc.

- 1.2.10 Tenders shall be valid for a period of **180days**(both days inclusive i.e. the date of submission of tender and the last date of period of validity of the tender) from the latest date of submission of Tenders and shall be accompanied with a tender security of the requisite amount as per clause C18 of ITT.
- 1.2.11 All the uploaded files in tender submission should be named properly and arrange systematically.
- 1.2.12 The bidders are advised to keep in touch with e-tendering portal <https://eproure.gov.in/eprocure/app> for updates.
- 1.2.13 The bidders may note that this tender is based on **two package system** and scrutiny of documents along with tender submission will be done after opening of bid. If at any stage, any bidder found non- responsive with the criteria mentioned in this document, bidder will be disqualified and their bid will not be evaluated further.
- 1.2.14 Contact details of CVO/DMRC

Chief Vigilance Officer
Delhi Metro Rail Corporation Limited,
Fire Brigade Lane, Barakhamba Road
Connaught Place, New Delhi-110001
[Tel:- 011-23418406](tel:011-23418406)
Email: cvodmrc@gmail.com

**CHIEF PROJECT MANAGER-8,
Ground Floor, MayurVihar Phase-I,
MayurVihar Phase-I Metro Station,,
Delhi – 110091**

Instructions for Online Bid Submission

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “**Online bidder Enrollment**” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.

- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- 6) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data

storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key. Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

- 8) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 9) Upon the successful and timely submission of bids (ie after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 10) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.
- 3) For any Technical queries related to Operation of the Central Public Procurement Portal Contact at :

Mobile Numbers: +91-8826246593

Tel: The 24 x 7 Toll Free Telephonic Help Desk Number 1800 3070 2232. Other Tel: 0120-4200462, 0120-4001002.

E-Mail: cphp-doe@nic.in

SCOPE OF WORK

2.0 GENERAL

2.1 WORK CONTENTS

2.1.1 Brief Scope

The scope of work for “Dismantling and construction of Delhi Fire Station building at Ashram Chowk” includes preparation of drawings, structural design, civil works, finishing works including road, drainage etc. as per direction of engineer. For execution of electrical works agency should have valid electrical license. The contractor has to appoint a consultant with the approval of Engineer for structural designing & preparation of drawings.

2.1.2 Employer’s Requirments:

1. Contractor shall submit detailed drawings and design duly vetted by recognized consultant for approval by DMRC
2. Contractor shall submit detailed method statement with risk assessment of dismantling of DFS building for approval by DMRC
3. Contractor shall submit detailed work programme for approval by DMRC.
4. Contractor shall submit method statement with ITP and checklists for DFS building for approval by DMRC.
5. Contractor shall submit organization chart for approval by DMRC.
6. Contractor shall dispose C&D waste to designated recycling plant as per direction of DMRC.
7. Contractor shall ensure noise emission due to C&D activities does not exceed the standard decibel levels prescribed by CPCB.

2.2 The works should be carried out with contractor’s own material &labour as per the specifications. The contractor has to deploy minimum technical manpower as detailed below:

S.No.	DESIGNATION	NUMBERS	MIN.EXPERIENCE
1	PM/Graduate Civil Engineer	1	5 Years
2	Civil site Engineer	1	3/ 5 Years*
3	Quality Control & Quality engineer	1	3/5 years*
4	Electrical Engineer	1	3/5 Years*
5	Safety Supervisor (Division in relevant field)	1	3 Years
6	Surveyor	1	5/7 years

* 3 years in case of diploma and 5 in case of degree in engineering.

2.3 REFERENCE TO THE STANDARD CODES OF PRACTICE

All Standards, Technical Specification and Codes of practice referred to shall be latest editions including all applicable official amendments and revisions. The Contractor shall make available at site all relevant Indian Standard Codes of practice and IRSC & IRC Codes as applicable.

2.3.1 In case of discrepancy among Standard codes of practice, Technical Specifications and provisions in sub clauses in this NIT, the order of precedence will be as below:

- i) Provision in NIT
- ii) Technical Specifications
- iii) CPWD specifications

iv) Standard Codes 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 **05** months from the date mentioned in letter of acceptance (LOA).

2.5 Traffic Management

The Contractor shall make the detailed traffic diversion, if required at his/ their cost. No separate payment will be made on this account.

2.6 Utilities

Diversion of utilities is laid at shallow depths and likely to be shifted. Diversion will be done by the contractor where in the opinion of the Engineer no other option is available. Contractor shall be paid for diverting the utilities under relevant DSR items. No payment shall however be made for supporting the utilities during course of work. The utilities are to be diverted with proper liaison and approval of the utility owning agencies. Such approvals are in the scope of the contractor.

2.7 DIMENSIONS

2.7.1 As regards errors, omissions and discrepancies in Specifications and Drawings, relevant clause of Special Conditions of Contract will apply.

2.7.2 The levels, measurements and other information concerning the existing site as shown on the conceptual/ layout drawings are believed to be correct, but the Contractor should verify them for himself and also examine the nature of the ground as no claim or allowance whatsoever will be entertained on account of any errors or omissions in the levels or strata turning out different from what is shown on the tender drawings.

2.8 CONSTRUCTION DEPOT

The area to the extent available, at the discretion of DMRC will be allocated to the contractor for his stores, offices & other activities at or near the site.

2.9 Additional Clause

2.9.1 DESIGN, DRAWINGS BY CONTRACTOR AS PER SITE REQUIREMENT

2.9.1.1 Shop drawings by Contractor.

(a) Based on preliminary drawings issued by the Engineer the Contractor shall prepare shop/fabrication drawings to scale as specified, indicating the required details. The shop drawings shall be prepared before execution of work, after taking actual site dimensions and all existing and proposed services/ structures etc.

(b) Shop drawings submitted by the Contractor shall be detailed sufficiently to indicate the type, size, arrangement, breakdown for packing and shipment, the external connections, fixing arrangements required, the dimensions required for installation and interconnections with other equipment and material, clearances and spaces required between various portions and any other information specifically called for.

(c) All reference points shall be in relation to the levels and locations, given in the Architectural and Services drawings duly cross-checked on site and confirmed. All locations and levels should be indicated with respect to grid and reduced levels with respect to the Bench Mark adopted for the project and indicated in the drawings issued by the Engineer.

(d) The Contractor shall verify the dimensions of all the necessary structural, architectural, Mechanical, Electrical & Plumbing (MEP) Services and other elements, relevant to the system being done, before proceeding with the preparation of the shop drawings and proceeding with the physical work at site and make suitable adjustments to the accommodate within the spaces available.

(e) The Contractor shall submit all drawings only after they have been duly detailed, checked and verified within the Contractor's organization ensuring that the details and data shown/furnished on the drawings are correct and that the requirements of other disciplines have been taken care. The names and complete signatures of the Contractor's personnel responsible for the drawings shall be contained on each drawing. Any drawing which does not contain the above names and signatures shall be summarily returned to the Contractor and treated as not having been submitted.

(f) The drawings submitted for approval shall be in any one of the standard sizes-A0, A1, A2, A2, A3 or A4, in accordance with Indian standards.

(g) All drawings shall show the following particulars in the lower right hand corner in addition to the Contractor's name.

- Name of the Owner.
- Project Title.
- Contract No.
- Title of Drawing.
- Scale.
- Date of Drawing.
- Contractor's Drawing Number.
- Space for the Engineer's drawing number.
- Name of the Engineer.
- Name of Review Consultant.
- This drawing is based on Drawing No(s).
- Further detail is given on Drawing No(s).

(h) Each drawing shall carry a revision number, date of revision and brief details of revisions carried out. Whenever any revision is carried out, the revision number must be updated. The revisions carried out on the drawing shall be clearly marked by clouding and each cloud revision numbered by marking the revision number in triangle. The clouding shall be done on the backside of the tracing by pencil.

(i) All dimensions on drawings shall be metric units, unless otherwise specified. However, all levels shall be in meters.

(j) All shop drawings shall be prepared on CADD using AutoCAD release 2007 or latest version.

2.9.1.2 Revision of approved shop drawings.

If, at any time before the completion of the work, changes are made necessitating revision of approved shop drawings, the Contractor shall make such revisions and proceed in the same manner and observe procedure for obtaining approval of the Engineer as for the approval of the original shop drawings.

2.9.1.3 Documents by Contractor.

The contractor shall submit to the Engineer, for approval, quality Assurance plans, design calculations, material specifications for each item and system, samples, as may be called for in the Specifications or as the Engineer may reasonably require. Wherever necessary the contractor shall provide as built dimensions to facilitate proper Good for Construction drawings being prepared for various construction detailing.

2.9.1.4 Number of Copies of Shop drawings and documents.

All shop drawings, documents, schedules etc and revisions thereof shall be submitted by the Contractor to the Engineer in 6 copies as per the requirement of the Engineer. Copies required in excess of these shall be paid for by the Engineer at a reasonable amount to cover the Contractor's overheads associated therewith.

2.9.1.5 Completion Drawings as per requirement

On completion of the work in all respects, the contractor shall submit the following:

- Four number portfolios (300 mm x 450 mm) each containing complete set of drawings on approved scale indicating the work "As Built" Each portfolio shall also contain technical literature.

These drawings shall be prepared on CAD using Auto-Cad release 2007 and shall be recorded on floppies/CDs and one set of these floppies/CDs shall also be submitted.

- Four sets of catalogues of all manufactured material with the name and addresses of the manufacturers for all equipment provided by him.
- The Contractor shall also submit one original "As Built" drawings on polyester film.

The Certificate of Completion of Works as per the provisions of Clause 17.1 of General Conditions of Contract shall not be issued by the Engineer in the event of Contractor's failure to furnish aforesaid "as-constructed" drawings for the entire works.

The Contractor shall promptly inform the Engineer of any error, omission, fault and other defects in the Specifications, Drawings for the Works which are discovered when reviewing the Contract Documents or in the process of execution of the Works.

2.9.2 ACCESS

(1) Alternative access shall be provided to all premises if interference with the existing access, public or private is necessary to enable the Works to be carried out. The arrangements for the alternative access shall be as agreed by the Engineer and the concerned agency. Unless agreed otherwise, the permanent access shall be reinstated as soon as practicable after the work is complete and the alternative access shall be removed immediately it is no longer required, and the ground surfaces reinstated to the satisfaction of the Engineer. Proper signage and guidance shall be provided for the traffic/users regarding diversions.

2.9.3 PROTECTION OF THE ADJACENT STRUCTURES AND WORKS

(1) The Contractor shall take all necessary precautions to protect the structures or works being carried out by others adjacent to and, for the time being within the Site from the effects of vibrations, undermining and any other earth movements or the diversion of water flow arising from its work.

TENDER PRICES

3.1. TENDER PRICES

- 3.1.1 Unless explicitly stated otherwise in the tender documents, the contract shall be for whole work, Price Bill of Quantity submitted by the Tenderes for his technically acceptable proposal and payment shall be as per Period Bill of Quantities attached with letter of acceptance.
- 3.1.2 The tender price as mentioned in Clause C 2.5 of ITT shall include all the above listed items in the scope of the work.

SITE INFORMATION

4.1 WORK SITE

- 4.1.1 The project site is located in the National Capital Territory of Delhi.
- 4.1.2 The area covered by this work falls at and at Delhi Fire Station Ashram Chowk Mathura road. Contractor shall plan his works keeping in view restriction of approach and availability of space and time.
- 4.1.3 deleted

4.2.1 General Climatic Conditions

- 4.2.1 The recorded highest and lowest temperatures in the past 10 years are 47 degree Celsius and 2.4 degree Celsius respectively.
- 4.2.2 Summer season is from April to June and winter season is from November to March.
- 4.2.3 Mean average annual rainfall in the area over a five-year period is of the order of 735 mm, a good portion of which is concentrated during July to mid-September, when about 75% of the annual rainfall occurs. The heaviest rainfall recorded during 24-hour period is 191 mm.

4.3 Seismic Zone

Delhi falls in Seismic Zone IV. Earthquake of maximum magnitude VIII on Modified Mercalli scale has been experienced in the past, in the region.