CONTRACT NO: DMRC/CPM1/PH-III/ SHIFTING OF PIPELINE AT BADLI DEPOT/1

TENDER DOCUMENTS

VOLUME 1

NOTICE INVITING TENDER
INSTRUCTION TO TENDERERS

DELHI METRO RAIL CORPORATION LTD.
OFFICE OF- CPM-1, 9/11,MALL ROAD, DELHI-110054
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NOTICE INVITING TENDER (NIT)

1.1 GENERAL

1.1.1 Name of Work:
Delhi Metro Rail Corporation (DMRC) Ltd. invites Open E-Tenders from eligible applicants, who fulfil qualification criteria as stipulated in Clause 1.1.3 of NIT, for the work Contract DMRC/CPM1/PH-III/ SHIFTING OF PIPELINE AT BADLI DEPOT/1: “Shifting / Diversion of existing 700 mm dia PSC water pipe line to 700 mm dia M.S. Pipe line over RCC Raft of Underpass at Badli Depot in Jahangir Puri to Samaypur Badli Corridor of Line - 2 Extension of Delhi MRTS Project”.

The brief scope of the work and site information is provided in ITT Clause A1 (Volume-1).

1.1.2 Key details :

<table>
<thead>
<tr>
<th>Approximate cost of work</th>
<th>INR 1,09,59,707.00</th>
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<tr>
<td>Tender Security amount</td>
<td>INR 1,09,597.00</td>
</tr>
<tr>
<td>Completion period of the Work</td>
<td>03 months</td>
</tr>
<tr>
<td>Tender documents on sale</td>
<td>From 10.01.2017 to 08.02.2017 (up to 1500 hrs) on e-tendering website <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>. Tender document can only be obtained after registration of tenderer on the website <a href="https://eprocure.gov.in/eprocure/app">https://eprocure.gov.in/eprocure/app</a>.</td>
</tr>
<tr>
<td>Cost of Tender documents</td>
<td>INR 21000/- (inclusive of 5% DVAT) Non-Refundable</td>
</tr>
<tr>
<td></td>
<td>(Demand Draft/Banker’s cheque) drawn on a Scheduled Commercial bank based in India and should be in favour of “Delhi Metro Rail Corporation Ltd.” payable at New Delhi.)</td>
</tr>
<tr>
<td></td>
<td>Cost of tender documents i.e., D.D./Banker’s cheque, in original, shall be accepted only up to 1500 hours on 08.02.2017 in the office of Chief Project Manager-1, 9/11, Mall Road Office, Delhi-110054.</td>
</tr>
<tr>
<td>Pre-bid Meeting</td>
<td>25.01.2017 @ 1500 Hrs at Office of CPM-1</td>
</tr>
<tr>
<td>Last date of Seeking Clarification</td>
<td>27.01.2017 up to 1700hrs. Queries/Clarifications from bidders after due date and time shall not be acknowledged.</td>
</tr>
<tr>
<td>Last date of issuing addendum</td>
<td>02.02.2017</td>
</tr>
<tr>
<td>Last Date &amp; time of Submission of Tender Online</td>
<td>08.02.2017 up to 1500 hrs.</td>
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NOTICE INVITING TENDER

Shifting / Diversion of existing 700 mm dia PSC water pipe line to 700 mm dia M.S. Pipe line over RCC Raft of Underpass at Badli Depot in Jahangir Puri to Samaypur Badli Corridor of Line - 2 Extension of Delhi MRTS Project.

Date & time of opening of Technical Bid Online. 08.02.2017 @ 1630 hrs at Metro Bhawan, 5th Floor, A- Wing, Barakhamba Road, Delhi -110001
Date & time of opening of Financial Bid Online Shall be informed after evaluation of technical bid through website  

Authority and place for submission of tender cost, tender security, required documents (if any), seeking clarifications etc. OFFICE OF- CPM-1 at 9/11, MALL ROAD OFFICE, DELHI-110054.

NOTE: The tender documents (non-transferable) can only be obtained after registration of tenderer on the website www.eprocure.gov.in/eprocure/app. Downloaded tender document will not be entertained in office in physical form. All D.D. should be drawn in favour of “Delhi Metro Rail Corporation Ltd.”, payable at New Delhi. The bidder who fails to submit the tender cost & tender security (in original) within stipulated scheduled deemed to be rejected. Any corrigendum, addendum etc issued shall be part of this tender document and shall be made available on DMRC website https://eprocure.gov.in/eprocure/app.

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.

ii. Tenderers shall not have a conflict of interest. All Tenderers found to have a conflict of interest shall be disqualified. Tenderers shall be considered to have a conflict of interest with one or more parties in this bidding process, if:

   (a) a tenderer has been engaged by the Employer to provide consulting services for the preparation related to procurement for on implementation of the project;

   (b) a tenderer is any associates/affiliates (inclusive of parent firms) mentioned in subparagraph (a) above; or

   (c) a tenderer lends, or temporarily seconds its personnel to firms or organizations which are engaged in consulting services for the preparation related to procurement for on implementation of the project, if the personnel would be involved in any capacity on the same project.

1.1.3.2 Minimum Eligibility Criteria:

A. Work Experience: The tenderers will be qualified only if they have completed work(s) during last seven years ending 31.12.2016 as given below:

   (i) At least one Similar work of value of Rs. 0.88 crores or more involving MS pipe line Diversion work.

   If the above work of Rs. 0.88 crores has been done by the foreign partner of JV and the work was done in the country of the foreign partner then in addition to this, the foreign partner must have done works equal to Rs. 0.44 crores outside the country of the foreign partner.

OR
(ii) Two Similar work of value of Rs. 0.55 crores or more involving MS pipe line Diversion work.

If the above work of Rs. 0.55 crores has been done by the foreign partner of JV and the work was done in the country of the foreign partner then in addition to this, the foreign partner must have done works equal to Rs. 0.27 crores outside the country of the foreign partner.

OR

(iii) Three Similar work of value of Rs. 0.44 crores or more involving MS pipe line Diversion work.

If the above work of Rs. 0.44 crores has been done by the foreign partner of JV and the work was done in the country of the foreign partner then in addition to this, the foreign partner must have done works equal to Rs. 0.22 crores outside the country of the foreign partner.

Notes:

- The tenderer shall submit details of works executed by them in the Performa of FORM-H of ITT 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 be submitted.

- Value of successfully completed portion of any ongoing work up to 31.12.2016 will also be considered for qualification of work experience criteria.

- For completed works, value of work done shall be updated to 31.12.2016 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 similar work of MS Pipe line Diversion includes other miscellaneous works than the client's certificate clearly indicating the amount for the Diversion of MS pipe line shall be furnished by the tenderer along with their submissions.

B. Financial Standing: The tenderers will be qualified only if they 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, 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 Rs.0.62 Crores 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.

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 ≥ \( \frac{W \times M}{100} \)

and liquidity of member-2 ≥ \( \frac{W \times N}{100} \).

(ii) **T2 - Profitability:** Profit before Tax should be Positive in at least 2 (two) year, 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 > Rs. 0.88 Crores

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

\[
\text{Net Worth of JV} = \frac{AM + BN}{100}
\]

(iv) **T4 - Annual Turnover:** The average annual turnover from Similar work of last five financial years should be > Rs. 3.5 Crores.

The average annual turnover 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 turnover of Member-1 is ‘A’ and that of Member-2 is ‘B’, then the average annual turnover of JV will be

\[
\text{Average Annual Turnover of JV} = \frac{AM + BN}{100}
\]

Notes:
- Financial data for latest last five audited financial years has to be submitted by the tenderer in FORM-F of ITT along with audited balance sheets. The financial data in the prescribed format shall be certified by Chartered Accountant with his stamp 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 may 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:

**Available Bid Capacity = 2*A*N – B**

Where,

- \(A\) = Maximum of the value of construction works executed in any one year during the last five financial years (updated to 31.12.2016 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 31.12.2016) for on-going construction works during period of **03 months w.e.f. 02.01.2017**.

Notes:

- Financial data for latest last five financial years has to be submitted by the tenderer in **FORM-G of ITT** 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.
- Value of existing commitments for on-going construction works during period of **03 months w.e.f. 02.01.2017** has to be submitted by the tenderer. These data shall be certified by the Chartered Accountant with his stamp and signature.
- In the 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:

**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.

### 1.1.4 The Tender documents consist of:

**Volume 1**
- Notice Inviting Tender
- Instructions to Tenderers (including Annexures)

**Volume 2**
- Special Conditions of Contract (including Schedules)

**Volume 3**
- Technical Specifications

**Volume 4**
Contract: DMRC/CPM1/PH-III/ SHIFTING OF PIPELINE AT BADLI DEPOT/1: (NOTICE INVITING TENDER): Shifting / Diversion of existing 700 mm dia PSC water pipe line to 700 mm dia M.S. Pipe line over RCC Raft of Underpass at Badli Depot in Jahangir Puri to Samaypur Badli Corridor of Line - 2 Extension of Delhi MRTS Project.

Tender Drawings

Volume 5

Bill of Quantities

Volume 6

Condition of Contract on Safety, Health & Environment (SHE) Ver. 1.2

Following document, even though not attached as a part of tender document, will form integral part of the tender. These documents will form integral part of contract agreement also. The work is to be carried out in accordance with GCC and all provisions contained in the Conditions of Contract shall be strictly followed. These documents can be purchased separately from DMRC.

General conditions of contract

1.1.5 The contract shall be governed by the documents listed in Para 1.1.4 above along with latest edition of CPWD Specification with up to date Correction Slips issued up to the last date of submission of tender. These may be purchased from the market.

1.1.6 The tenderers may obtain further information/ clarification, if any, in respect of these tender documents from the office of CPM-1, 9/11, MALL ROAD, DELHI-110054.

1.1.7 All tenderers are hereby cautioned that tenders containing any material deviation or reservations as described in Clause. 20.0 of “Instructions to Tenderers” and/or minor deviation without quoting the cost of withdrawal shall be considered as non-responsive and is liable to be rejected.

1.1.8 Late tenders (received after date and time of submission of bid) shall not be accepted under any circumstances.

1.1.9 Tenders shall be valid for a period of **180 days** (both days inclusive i.e. the date of submission of tenders and the last date of period of validity of the tender) from the date of submission of Tenders and shall be accompanied with a tender security of the requisite amount as per clause C14 of ITT.

1.1.9.1 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.

Please note carefully the requirements for submitting tenders and the date & time for submittal.

1.1.10 The intending shortlisted tenderers must be registered on e-tendering portal https://eprocure.gov.in/eprocure/app. Those who are not registered on the e-tendering portal shall be required to get registered beforehand. 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

1.1.11 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.

1.1.12 Tender submissions will be made online after uploading the mandatory scanned documents towards cost of tender documents such as Demand Draft or Pay Order or Banker”s Cheque
from a Scheduled commercial bank based in India and towards Tender Security such as Bank Guarantee or Demand Draft or Pay Order or Banker’s Cheque from a Scheduled commercial bank based in India and other documents as stated in the tender document.

1.1.13 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.

1.1.14 Tenderers are advised to visit the site before offering their rates.

1.1.15 Bidders shall note that the maximum file size that can be uploaded is 5 MB and in the form of pdf/jpg/jpeg format. All the uploaded files in tender submission should be named properly and arranged systematically.

1.1.16 The bidders are advised to keep in touch with e-tendering portal https://eprocure.gov.in/eprocure/app for updates. Any corrigendum, addendum etc issued shall be part of this tender document and shall be made available on this e-tendering portal.

Chief Project Manager-1,
Delhi Metro Rail Corporation Ltd
SCOPE OF WORK

2.0 GENERAL

Name of Work: Shifting / Diversion of existing 700 mm dia PSC water pipe line to 700 mm dia M.S. Pipe line over RCC Raft of Underpass at Badli Depot in Jahangir Puri to Samaypur Badli Corridor of Line - 2 Extension of Delhi MRTS Project.

2.1 WORK CONTENT

2.1.1 Brief Scope

a) Site clearance, dismantling of obstructions etc., before commencement of works, all as specified or as directed.

b) True and proper demarcation, layout of work, provision of all necessary labour, instruments and levels and appliances in connection with all above mentioned work as specified or as directed by Engineer-in-Charge or the representative of DMRC.

c) The contractor has to ensure cleanliness at site. Nothing extra shall be payable on this account.

d) Any other item of work as may be required to be carried out for completing the job in all respects in accordance with provisions of contract and or to ensure the safety of the work during and after construction.

e) All aspects of quality assurance, including testing of various components of the work, as specified or as directed.

f) Clearing site after construction and handing over of all the works, as specified and directed.

g) Period of completion is Three Months from date of issue of “letter of acceptance”.

h) Defect liability is twelve months from date of issue of “completion certificate”.

i) Submission of completion (i.e. ‘As-Built’) drawings and other related documents as specified.

j) The contractor has to get necessary permission/NOC from the Delhi Jal Board for working in such location. DMRC will assist for getting them permission from concerned regulatory authorities for working in such locations.

2.1.2 The work is to be constructed and maintained as per relevant codes, specifications, Special Specifications, drawings and /or as directed by the Engineer.

2.1.3 The scope of works shall include supply & laying of MS pipeline, interconnection with existing pipeline and dismantling & disposal of existing PSC pipeline etc. but not limited to the follows:

a) Site clearance and dismantling of obstructions etc., before commencement of work as specified or as directed;
2.1.4 The work activities will have to be planned in such a manner that they do not obstruct or interfere the traffic on the existing roads/railways and other utilities. Where work is required to be carried out at locations adjacent to such roads/railways; utilities, structures etc. suitable safety and protection arrangements will have to be ensured for which nothing extra will be payable. It should be ensured that no damage is caused to any such element and Engineer/Employer shall be indemnified against such damage at no extra cost.

2.2 INSPECTION

DMRC may appoint an independent agency to ensure the quality checking of the work. The Contractor shall ensure the complete co-operation with the agency to perform their work satisfactorily. In addition DMRC also reserves right to undertake quality check and inspection directly by itself.

2.3 DESIGN CRITERIA

The shop drawing should cover all the items pertaining to all temporary works required for fabrication, shop assembling and transportation scheme for various structural elements. The contractor shall himself formulate a practical and viable scheme for fabrication of all structural members. The tenderer should specify the scheme along with the tender that he proposes to adopt for carrying out all the works including fabrication transportation and erection at site.

2.4 REFERENCE TO THE STANDARD CODES OF PRACTICE

2.4.1 All Standards, Technical Specifications 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 relevant IS Codes as applicable.

2.4.2 Wherever Indian Standards do not cover some particular aspects of design/ construction, relevant British German Standards will be referred to. The Contractor shall make available at site such standard codes of practice.

2.4.3 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.

2.5 DIMENSION

As regards errors, omissions and discrepancies in specifications and drawings, relevant clause of special conditions of contract will apply.

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 drawings.

2.6 ASSOCIATED WORKS
Works to be performed shall also include all general works preparatory to the construction and works of any kind necessary for the due and satisfactory construction, completion and maintenance of the works to the intent and meaning of the drawings adopted and technical specifications, to best Engineering standards and orders that may be issued by the Engineer from time to time, compliance by the agency with all Conditions of Contract, supply of all materials, apparatus, plants, equipment, tools, fuel, water, strutting, timbering, transport, offices, stores, workshop, staff, labour and the provision of proper and sufficient protective works, diversion, temporary fencing, lighting and watching required for the safety of the public and protection of works on adjoining land; first-aid equipment, sanitary accommodation for the staff and workmen, effecting and maintenance of all insurances, the payment of all wages, salaries, fees, royalties, duties or the other charges arising out of the erection of works and the regular clearance of rubbish, clearing up, leaving the site perfect and tidy on completion.

2.7 TIME SCHEDULE

The agency shall submit with the tender “Time Schedule” for completion of various portions of works. This schedule is to be within the overall completion period of Four months. The detailed programme in the form of a quantified bar chart or CPM network shall include all activities starting from design to completion.

2.8 TRAFFIC MANAGEMENT

The Contractor shall make the detailed plans of laying of MS pipeline along the existing road and submit for approval. The work is to be executed with proper liaison with Delhi Jal Board and Land owning agency. Necessary assistance will be given by DMRC. The Contractor should inspect the site. The Contractor shall also strengthen the road where the diversions are planned by widening, repairing to the road surface etc.

2.9 LABOUR WELFARE FUND

The labor welfare fund will be created jointly by DMRC and the contractors. The contractor shall remit a minimum amount as per labour welfare fund rules against every case of death or total incapacitation and DMRC would also contribute a matching amount as per DMRC labour welfare fund rules with objectives. This is in addition to compensation to be paid by the contractor in accordance with the workman's compensation Act as mentioned in general conditions of contract.

2.10 TENDER PRICES

a) Unless explicitly stated otherwise in the tender documents, the contract shall be for the whole works, based on the Bill of Quantities and payment shall be as per accepted rates of contract.

b) All duties, taxes, fees, octroi and other levies including Delhi VAT, payable by the contractor under the contract shall be included in the total contract price submitted by the tenderer.

The evaluation of the tender by Employer shall be made on the basis of quoted rates only.

c) The contract price quoted by the tenderer is subject to adjustment during the performance of the contract in accordance with the provisions of the general conditions of contract (No Price Variation is applicable for this work).

2.11 The prices and measurements referred to will be based on actual measurements.

2.12 The tender price as mentioned in Clause of ITT shall include all the above listed items in the scope of the work (Clause 2.10 to 2.13).
SITE INFORMATION

3.1 WORK SITE

3.1.1 The project site is located in the National Capital Territory of Delhi (NCTD). The location of the work and the general site particulars can be inquired from Chief Project Manager/1.

3.1.2 The Contractor shall plan his works keeping in view restriction of approach and availability of space and time.

3.2 GENERAL CLIMATIC CONDITIONS

3.2.2 The area in which the work lies is mostly plain terrain falling within latitudes 28°-20’ and 28°-45’ North and longitudes 76°-56’ and 77°-20’ East.

3.2.3 The recorded highest and lowest temperatures in the past 10 years are 45.8 degree Celsius and 2.4 degree Celsius respectively.

3.2.4 Summer season is from April to June and winter season is from November to March.

3.2.5 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.

3.2.6 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.