

NATIONAL INSTITUTE OF DISASTER MANAGEMENT
(Ministry of Home Affairs, Govt. of India)
IIPA Campus, New Delhi 110 002

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Sub: Quotation for SOFTWARE (open source) development for the compilation, monitoring, checking and mapping of location/addresses of 10000+ building records collected through Rapid Visual Screening (RVS) in East Delhi

Tender Document

Sealed quotations are invited by NIDM, New Delhi for compiling information collected from 10000+ buildings in the form of 5 page FORMAT prepared by NIDM on the following terms and conditions.

A. Eligibility:

1. The Firm should be a reputed organisation in the field of Information technology, IT enabled services, database management in web-GIS, Open source platform (LAMP, JAVA etc.)
2. The firm should have a minimum 3 years of continuous experience in providing such services preferably to Government Organisations.

B. Job Description

Due to sudden collapse of one multistorey building at the Laxmi Nagar, East Delhi, 71 people were killed and injured many. Govt. of Delhi constituted an Inquiry Commission under the Chairmanship of Justice (Retd.) Shri Lokeswar Prasad. As per TOR given to the Commission it is required to investigate the similar buildings, if any, in the East Delhi. East Delhi consists of two districts – Shahdara South and North, each having four division and each division has 8 wards. According to 2007 estimate, there are about 8.7 lakh building units in East Delhi, out of which 10000+ building have been surveyed. Under directives of Hon'ble Chairman, Commission of Inquiry, NIDM has been entrusted to lead the above project.

C. Scope of works (10000+ records)

1. Data entry of FORMAT attached as **Annexure – B**
2. Verification of data entered by DEO
3. Uploading of related images, audio and video (scanning of photo, map, signature, etc.)
4. Mapping of all building locations and representing them in Web-GIS
5. Provision of customised queries for selecting/searching various components from the database
6. Customised report with showing location of each building with details such as photo, map etc. with **print option**
7. Time allocated for whole project is **one month** from the award of contract

D. Deliverables

1. Entire customised Software in auto-run CD/DVD with help keys and features
2. Final data (including database, images, audio, videos) in electronic format having options for query, export, import, backup, restore etc.
3. Printed Reports (printing, binding cost shall be borne by NIDM)

E. Support and Maintenance

1. During project period the company shall provide one experienced supervisor for full time at NIDM to facilitate, coordinate, monitor, support data entry operators and software usage
2. After the handing over of deliverables the company would provide onsite technical support for atleast 6 months as and when required.

F. Facilities to be provided by NIDM

1. State of the art computer lab having AC, UPS, 17 desktops computers, one server, LAN and Internet, scanner, laser printer, telephone.
2. 17 DEO for data entry and supporting staff
3. 10000+ filled formats (one sample copy enclosed in **Annexure – B**)

G. Bidding procedure:

The bids should be submitted in two parts as detailed below:

Part A - Techno Commercial Bid :

Techno Commercial Bid should be submitted in prescribed format mentioned in Annexure-A. It should contain the following:-

1. Earnest Money Deposit of **Rs 10000/-** in the form of crossed bank draft or pay order issued by a scheduled bank in favour of **N.I.D.M., New Delhi**
2. List of Clients to whom the service has been provided/being provided (preferably Govt. organisations) during the last 3 years.
3. Provide Demo CD/DVD of the proposed SOFTWARE incorporating features mentioned in the job content and annexure B

Part B - Price Bid

Quoted Price shall include services for all items mentioned above in **C, D and E** and all other taxes.

Both Bids should be submitted in separate sealed envelopes duly superscribed as **part A Techno commercial** and **Part B commercial bid**. Both the bids should then be put into a single sealed envelope.

H. Terms & Conditions:

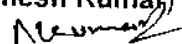
1. Quotation should typed and be free from correction, overwriting and erasers.
2. Quotations received after the specified time and date will not be entertained.
3. We reserve to ourselves unfetter right to reject any or all suppliers without assigning any reasons thereof
4. All prices quoted must be firm and no revision in the price quoted is allowed after quotations are opened.
5. Price quoted should be inclusive of service and all other taxes and this should be clearly specified in quotations. In the absence of any such stipulation, it will be presumed that the prices quoted are inclusive of all taxes.
6. Price quoted should be valid atleast **for 90 days**.
7. The entire work related to this project NIDM shall reserve the copyright of all design, contents and exclusiveness of the customised software

I. Submission of Bid and Last date:

Sealed quotation along with this form superscribed on the envelop "**RVS – East Delhi**" should reach 'Executive Director, 5-B I.P. Estate, Ring Road, New Delhi 110 002' on or before **22nd July 2011**, by **1PM**. Quotation submitted via emails/fax telex etc are not acceptable. Incomplete quotations in any respect will be summarily rejected.

All quotations will be opened on **22th July 2011** at **3PM** in the presence of bidders or their authorised representatives, if any.

Date: July 12, 2011

(Ramesh Kumar)

Account Officer

Annexure-A

Format of Techno Commercial Bid

S. no	Item	Details
1	Name of the firm	
2	Address for communication	
3	Description about technical competence of the company, including resume of technical team members that would be	
4	List of Govt. organisation to whom the service rendered during the last 3 years	
5	Demo CD/DVD attached	yes/no
6	Details of Earnest Money Deposit	

Certify that the above stated information are correct and our firm fulfils the eligibility conditions stated in the Tender form.

Authorised Signatory

RAPID VISUAL SURVEY OF BUILDINGSBuilding
Identification

Ward		

Colony Code		

Block	

House Number			

GENERAL INFORMATION

Building Name: _____	
Ownership: Public _____	Private _____
Owner's Name: _____	
House Number _____, Street/ Lane No _____	
Name of colony _____, District _____	
Nearby Landmark _____, Delhi/New Delhi _____ PIN _____	
Name of Police Station _____	Name of nearest Fire Station _____

Note: Take representative photo and measurements, draw sketches/locations of stair cases, drains, etc. showing good and bad aspects from the view point of earthquake safety and vulnerability.

1. Building type:

- (a) Earthen building _____ (b) Stone in mud mortar _____
 (c) Stone in cement mortar _____ (d) Brick masonry in mud mortar _____
 (e) Brick masonry in cement mortar _____ (f) RCC Frame Building _____
 (g) RCC Frame- shear wall Building _____ (h) Mixed Construction (specify): _____

2. **Building area:** (a) Approved _____, (b) unauthorized regularized _____, (c) unauthorized _____
 (d) Rural Village _____, (e) Urban village _____, (f) Resettlement colony _____, (g) others (specify) _____

3. Usage of the building:

- (a) Residential _____, (b) Commercial _____, (c) Offices _____, (d) Public _____
 (e) Storage _____, (f) Housing Society _____, (g) Hospital/Health centre _____, (h) School _____
 (i) Coaching Centre _____ (j) Religious places _____, (k) Petrol pump _____, (l) Police station _____
 (m) Fire station _____, (n) Shopping Mall _____, (o) Community Centre _____
 (p) mixed use _____ (q) Cinema Hall _____, (r) Others (specify) _____

4. **Number of occupants/users** (approximately): _____

5. **Age of construction :** (a) ongoing construction _____
 (b) Constructed < 5 yrs _____, 5-10yrs _____, 10-20 yrs _____, >20 yrs _____ Others (Specify) _____

6. Building Location:

- (a) Isolated _____, (b) Internal _____, (c) Corner _____, (d) End _____

7. **Plan dimensions:** (a) Length _____ (b) Breadth _____

8. **Total number of stories:** _____

9. Inter-storey height:

Basement Floor	Stilt	GrF	Mezzanine F	1 st Floor	2 nd Floor	3 rd Floor	4 th Floor	5 th Floor	6 th Floor

10. Building construction quality:

(a) Good _____ (b) Average _____ (c) Poor _____ (d) Others (specify) _____

11. Building Condition and maintenance:

(a) Good _____ (b) Average _____ (c) Poor _____ (d) Others (specify) _____

12. Soil type:

(a) Rock/Hard soil _____ (b) Medium soil _____ (c) Soft Soil _____

(d) Reclaimed/filled land _____ (e) Partially filled land _____ (f) Loose sand _____

13. Gap between adjacent buildings : (a) Front _____ (b) Back _____

(Take Photo) (c) Left side _____ (d) Right side _____

14. Plan of the building: (a) Symmetric _____ (b) Asymmetric _____

15. Reentrant corner is: (draw sketch)

Less than 15% _____ more than 15% _____ others (specify) _____

16. Regularity in elevation (take photo):

(a) Regular _____ (b) Irregular _____

17. Location of staircase in building is : (show with rough plan –sketch)

(a) Symmetric _____ (b) Asymmetric _____

18. Staircase is

(a) Separated from main structure _____ (b) Connected to main structure _____

If connected to main structure, it is

(a) Enclosed by rigid walls _____ (b) Not enclosed by rigid walls _____

19. Basement provided: (take photo) (a) Yes _____ (b) No _____

20. Overhang/cantilever length (take photo): _____

21. Orientation of Building w.r.t. front direction _____

22. Sanctioned Building Plan: (a) Yes _____ (b) No _____

If not sanctioned, (a) Regularized _____ (b) Not regularized _____

23. Rain water harvesting Certificate (In case of plot size more than 100 sq.mtr.):

(a) Yes _____ (b) No _____

24. Recommendations of Chief Fire Officer (In case of multi storey buildings/Group Housing Societies):

(a) Yes _____ (b) No _____

25. NOC from Cooperative Group Housing Societies (where applicable):

(a) Yes _____ (b) No _____

26. Height of Plinth (above Ground Level): _____

27. Mumty details: (a) Height _____ (b) Plan dimension _____

28. CONDITION OF STRUCTURE & AMBIENCE

I)Settlement cracks in floor	(a)Yes _____(b) No _____
II)Water logging	(a)Yes _____(b) No _____
III)Wall/Column out-of-plumb	(a)Yes _____(b) No _____
IV)Cracks in Walls	(a)Yes _____(b) No _____
V)Dampness	(a)Yes _____(b) No _____
VI)Excessive cantilevered portion (> 90 cm)	(a)Yes _____(b) No _____
VII)Proximity of water bodies	(a)Yes _____(b) No _____
VIII)Surrounding Environment of building	

29. VULNERABILITY PARAMETERS

I) Seismic Load path	(a)Yes (b) No
II)Vertical Discontinuity	(a)Yes (b) No
III)Soft Story	(a)Yes (b) No
IV)Setback	(a)Yes (b) No
V)Offset	(a)Yes (b) No
VI)Resistance Element	(a)Yes (b) No
VII) Plan Discontinuity	(a)Yes (b) No
VIII)Adjacency/Pounding	(a)Yes (b) No
IX) Earthquake Resistant measures adopted	(a)Yes (b) No _____
X) Possibility of Liquefaction/Slope Failure	(a)Yes (b) No _____
XI)Strong beam-Weak column Condition (in case of framed structure)	(a)Yes (b) No _____

30. Overhead Water Tank (No. _____)	I)Capacity: (a) 300litres ____Nos., (b)500 litres____Nos. (c) 1000litres __Nos.,(d)2000 litres__ Nos.
	II)Material of Water Tank : (a)Concrete_____ (b)Brick Masonry_____ (c) Plastic _____
	III) Placement Details (like support, location etc., provide sketch)

31. Outer Dimension(m)	Length: _____ m Width: _____ m														
32. Built-up-area(sqm)	Length: _____ m Width: _____ m														
33. Floor Area(sqm)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 12.5%;">BF</th> <th style="width: 12.5%;">Stilt</th> <th style="width: 12.5%;">GF</th> <th style="width: 12.5%;">MF</th> <th style="width: 12.5%;">FF</th> <th style="width: 12.5%;">SF</th> <th style="width: 12.5%;">TF</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	BF	Stilt	GF	MF	FF	SF	TF							
BF	Stilt	GF	MF	FF	SF	TF									
34. Line plan of building	Please draw at the blank page at the back of data-sheet with full details														
35. Plan configuration:	Rectangular/Sqaure/L-shape/U-Shape/Cross/H-Shape/Others														

MANSONRY BUILDING

1. Type of construction:

(a)Engineered construction _____(b)Non-Engineered construction _____

2. Layout of masonry (Tick in case of stone masonry)

(a)Random rubble _____,(b)Half dressed stone _____ (c) Others (specify)

3. Through stone (Tick in case of random rubble masonry)

(a)Provided _____ (b)Non Provided _____

4. Earthquake resistant features provided in the building:

(a)Lintel band _____ (b)Roof band _____(c) Plinth band ____ (d) Cannot say____

5. Vertical reinforcement at

(a)Corners ____ (b)Junctions ____ (c)Jambs of Openings _____

6. Existence of floating walls

(a)Yes _____ (b) No _____

7. Foundation type:

(a)Strip foundation __ (b) Isolated foundation _____(c)Others (specify): __

8. Foundation material used for construction:

(a)Stone ____ (b)Brick ____ (c) Cement concrete _____(d) RCC_____

9. Percentage openings in main walls: _____

10. Thickness of

(a)Exterior wall _____ mm,(b)Interior wall _____ mm

11 Roof type

(a)Flat roof ____ (b)Sloping roof ____ (c) Hipped roof _____(d) Others specify__

12. If Sloping provide, then

(a)Ties provided Yes _____ No _____

(b)Bracing Provided Yes _____ No _____

(c)Roof and Gable band provided Yes _____ No _____

13. Roofing material used

(a)RCC slab ____ (b)Red sand stone _____ (c)Corrugated iron sheeting _____

(d)Asbestos sheeting _____ (e)Others, specify _____

14. Inspection accuracy

(a)From outside only _____(b)Contacted owner also _____

(c) Partial _____(d) Complete _____

Name of the surveyors:

Date:

a)Name of JE _____ a) Name of AE _____

b)Mobile No. _____ b)Mobile No. _____

c)Signature _____ c) Signature _____

Name of Ex. Engineer _____ Mobile No. _____

RCC BUILDING:

1. Irregularities in structure

- (a) Open ground floor _____ (b) Floating columns _____ (c) Mezzanine Floor _____
(d) Heavy mass at roof _____ (e) Partially filled panels _____ (f) Floating shear walls _____
(g) Others (Specify) _____

2. Designed by

- (a) Architect _____ (b) Structural Engineer _____ (c) Contractor _____ (d) Owner _____

3. Enhanced ductility design: (a) Yes _____ (b) No _____ (c) Cannot say _____

4. Column size at ground floor: (a) Corner _____ (b) Interior _____ (c) Others (specify) _____

5. Beam Size: (a) Max. Span _____ (b) Width _____ (c) Depth _____

6. Max. Spans between columns: _____

7. Shear wall(s) provided: (a) Yes _____ (b) No _____ if yes, (i) Symmetrically _____ (ii) asymmetrically _____ Thickness of shear wall _____

8. Infill type

- (a) Brick masonry _____ (b) Stone masonry _____ (c) Solid concrete blocks _____
(d) Hollow concrete blocks _____ (e) Timber _____
(f) Others (Specify): _____

9. Basement Provided: (a) Yes _____ (b) No _____

10. Distress seen in the building: (a) Yes _____ (b) No _____

If yes, then

- i) Walls
ii) Slabs – cracks, spalling, de-laminations, others
iii) beams
iv) Columns
v) Floor level
vi) Foundation
vii) Basement
viii) Others (specify)

11. General Observations:

- a. Minor distress observed in few structural members, which can be repaired under the advice of structural engineer/consultant
b. Medium distress observed, which can be rehabilitated including strengthening, if required, under the advice of structural engineer
c. Severe distress in some structural members, which can be rehabilitated including strengthening, under the advice of structural engineering

12. Inspection accuracy:

- (a) From outside only _____ (b) contacted owner also _____
(c) Partial _____ (d) Complete _____

Name of the surveyors:

Date:

a) Name of JE _____ a) Name of AE _____

b) Mobile No. _____ b) Mobile No. _____

c) Signature _____ c) Signature _____

Name of Ex. Engineer _____ Mobile No. _____

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