

**Management Development Institute, Gurgaon
invite Tender for**

**“Conducting Topographical survey, Hydrological
survey of Land Other associated works at MDI
campus (approx..35 acre)**

**For the Proposed Construction work of Academic
block, PGPM Hostel and other allied buildings at
MDI campus, Gurgaon.**



MDI
GURGAON

Management
Development
Institute

Management Development Institute Gurgaon

Mehrauli Road, Sukhrali, Gurgaon-122007

Ph:- +91-124-4560000, Fax:- +91-124-4560005, www.mdi.ac.in



NOTICE INVITING TENDER

1. Sealed tenders are invited for the work for Topographical & Hydrological survey of land measuring approx. 35 acres located land at Management Development Institute (MDI), Mehrauli Road, Sukhrali. Gurugram – 122007, Haryana

2. The quotations should be submitted in a sealed cover addressed to: -

**The Chief Administrative Officer (Admin)
Management Development Institute
Mehrauli Road, Sukhrali,
Gurugram – 122007, Haryana**

3. The quotations should reach on or before 03.00 PM on 17th January 2022. The rates of items being quoted will include the cost of material, wastage, labour etc. The cost of item being quoted in the BOQ will be exclusive of GST. Brief specification & make and schedule of quantities are enclosed at Annexure-'A', 'B' & 'C'.

4. TERMS AND CONDITIONS

(a) The tenderers shall quote for all the items as mentioned in the Schedule of Quantities attached. The quantities indicated are approximate and are liable to be varied to any extent. The rates quoted shall be applicable for all such variations.

(b) The rates quoted shall be firm and shall not be subject to any variation on account of any variation in the scope of work or any contingent expenses or on any other account whatsoever.

(c) **EARNEST MONEY DEPOSIT**

Not applicable.

(d) **SECURITY DEPOSIT**

The successful tenderer shall deposit 10% of the contract value as Security Deposit. Security deposit, which will be deducted from the R/A payments and the same shall become due for discharge only after the completion of work duly certified by Estate deptt of MDI (Gurugram) including submission of final report.

(e) **TAX/DUTIES**

All sales tax/duties or any other taxes or levies including Sales Tax on works contract, Service tax payable to any authorities whatsoever shall be borne by the Contractor, and MDI (Gurugram) accepts no responsibility or liability whatsoever on any account.



(f) **INCOME TAX**

Income Tax shall be deducted from the payments to the Contractor at the prevalent applicable rates.

(g) MDI (Gurugram) reserves the right to reject any or all quotations.

(h) **SITE VISIT**

The Bidders shall visit the site and acquaint themselves with all the site conditions and all aspects affecting the execution of the work. MDI (Gurugram) shall not entertain any claim or liability on account of the Contractors ignorance or negligence of this or on any other account whatsoever.

As soon as the field work is started, the Contractor shall inform the Estate deptt MDI (Gurugram) and MDI (Gurugram) reserves the right to depute their representative for checking the work of the Contractor whenever considered necessary.

(i) **TIME SCHEDULE**

The time allowed for completion is 14 days from date of issue of Letter of intent. The time is the essence of the contract.

(j) **COMPENSATION FOR DELAY**

For any delay in the completion of the work the Contractor/Agency to whom the work is awarded will be liable to pay compensation at the rate of 2% of the total Contract Value for each day of delay subject to a maximum of 10%. However, MDI reserve to right to waive off the clause on valid ground

(k) **WATCH AND WARD & RESPONSIBILITY**

The Security, watch and ward and supply of men, materials, instruments and all other equipments required for the work as also all the messing and lodging arrangements, staying and transport arrangements of the Contractor's men, materials and equipment etc. to the site shall be the sole responsibility of the Contractor himself at his own cost in all respects. MDI (Gurugram) shall not entertain any liability and/or responsibility on any such account.

(l) **WATER AND ELECTRICITY**

The Contractor shall make his own arrangement for the water and electricity required for the execution of the work.

(m) **PRICE**

This is an item rate tender. The tenderers to submit his item rates for the works as specified in the bill of quantities.



(n) **TERMS OF PAYMENT**

- (i) Site Mobilisation on submission of bill as per item No.4(a) of Schedule of Quantities.
- (ii) 50% on submission of preliminary report after deducting advance paid.
- (iii) Balance 50% after the satisfactory submission of all documents/drawings etc. as stipulated in the specification, scope of work and bill of quantities of the work.

(o) **OWNER**

Management Development Institute (MDI)
Mehrauli Road, Sukhrali
Gurugram 122007

(p) **INFORMATION**

Any particulars of information regarding the proposed work can be obtained from the office of the Estate deptt MDI, Gurgaon or Architects M/s C.P. Kukreja Associates., Ashirwad Building, 3rd Floor, D-1, Green Park, New Delhi 110016 of any working day during office hours.

(q) **VALIDITY**

Validity of quotation should remain open for acceptance of 90 days from the date of opening.

Thanking you,

Yours faithfully,

(Arun Kumar Singh)
Chief Administrative Officer (Admin)

Encl:

1. Annexure-A, B & C



SPECIFICATION FOR TOPOGRAPHICAL SURVEY WORKS

General

All surveys and works shall be conducted by a team of experienced people lead by a qualified team manager who shall be available at all times at site during the site surveys. All field data collection and field plans shall be executed with the best workmanship keeping in good view of the intent of work. Plan dimensions shall be in mm and elevations of columns and levels in metres.

Survey with Total Station

The entire land will be divided into grids of 10mx 10m and each important point shall be marked in both directions with respect to the grid system accurately. All internal angles and sides are to be measured accurately. The boundaries of the plot and all other important points have to be tied.

The topographical survey shall be based on actual measurements of various structures and detailed survey.

All the existing manholes with invert levels and existing storm water drain with size and depth existing structures if any, nos., type and species of existing trees, plants, shrubs, creepers, ground covers, hedge plant, paddy etc. with their girth and height(all are to be marked on the survey plan)

Bench Marks and Co-ordinate References

All bench marks shall be marked at site with both the levels and co-ordinates with respect to datum. The locations of constructed Bench Marks, shall be got approved from the Consultant by the Contractor in advance.

Contour Survey

Spot levels shall be taken on a grid of 5mx5m. Contours shall be plotted at intervals of 250mm and contour plans prepared by superimposing contours on survey plans showing topographic details and submitted. Rates shall include for survey al around beyond 10mts of boundary of plot including adjoining roads, nothing extra shall be paid on this account.

Final Reporting

All drawings shall be submitted in the form of two floppies and 4 sets of ammonia blue print and also one set reproducible over tracing paper. The final report shall also contain a key plan showing the comprehensive survey results.

All field data shall also be submitted. The HFL (Highest Flood Level) of the overall area and zone as well as HFL as specifically applied to site (Local Flood Level) shall be obtained and reported along with the basis of reporting. Also Include R.L. of any road around plot, existing/proposed by authorities.



A detailed note on how various Bench Marks and co-ordinate reference points can be accessed and how the work can be re-checked or re-run at the project construction stage shall be included in the report.

Mean sea level (MSL) to be marked on bench mark and all RL to be linked with it.

Co-ordinate of bench mark points to be located with reference to any landmark like nearest airport / railway station etc.

Conducting 3D survey by using latest equipment's & software.

Site elevation and site co-ordinates certificate (Latitude, Longitude, site elevation 'AMSL') by a licensed surveyor of Airport authority of India along with submission of final documents.

SPECIFICATION FOR HYDROLOGICAL INVESTIGATION

1. To located potential areas for extraction of ground water and to select the suitable sites for installation of exploratory tube wells.
2. To assess the availability of ground water potential.
3. To study the basic geological information of the area with the available literature.
4. Delineation of acquifer formation in the area with the depth and thickness to ascertain the ground water yielding capacity of acquifer formation.
5. To assess the quality of ground water.
6. Recommend the best method for drilling of tubewell depending on nature of formation.
7. Suggest suitable design for tubewell and spacing to minimise interference.
8. Recommend type of pumping unit w.r.t. static water level expected discharge and draw down.
9. Suggest suitable no./type/methodology for recharging of water table.



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CONTOUR SURVEY

Sl. No.	DESCRIPTION	UNIT	QTY	RATES IN FIGS & IN WORDS	AMOUNT
1.	Carrying out computerized topographical and land survey with total electronic stations of high precision, making position of each physical feature on ground true of their position like building, sewer lines/ storm water drains with their invert levels, manholes with their invert levels. G.I & C.I lines, trees (giving their girth, height & foliage etc) overhead HT/LT electric line, transformers, substations, OHT, tube wells, electric & telephonic poles, roads, paths, existing permanent/temporary structures, fencing boundary walls/lines, gates, drains etc i/c heights of inaccessible structures like HT lines, OHT etc. preparing the Contour Plan at suitable contour intervals, depending upon the topography or the terrain & preparing drawing in A-1 size, recording reduced levels at suitable intervals, points of abrupt change in levels, fixing Temporary Bench Marks (TBM) and making them on ground with paint as required, calculation of areas & other details of surveyed pockets with standard surveying software programme, submission of four (4) Nos coloured drawings along with two (2) Nos soft copies on Compact Disc (C.D) to the 1:1000 or suitable scale & plotting on Auto Cad & shall consist of :				
(i)	Contour Plan showing all existing physical features with assumed Northing, Easting as required. As above in (1) with all features Rate shall include cost of all operations described above	Acres	35.11		

	i/c labour, machinery, stationary, T&P and clearing of minor jungle. Delay due to topography of area etc nothing extra shall be payable. The payment will be made for the actual area surveyed. The survey work will be carried out as per standard norms & direction of Engineer-in-charge.				
2.	Carrying out levelling and contour survey after establishing grid lines of 5m x 5m, taking spot levels after connecting to the reference bench marks, preparation of contour intervals of 0.25M and submission of contour plans of the entire area surveyed indicating all spot levels along with reproducible prints.	Acres.	35.11		
3.	Establishing bench marks as per enclosed design with RCC work with necessary foundations and at top fixing 150x150mm plate 6mm thick flush with top with necessary hold fasts embedded in concrete and making necessary identification marks to indicate location/S. Nos. and levels on the bench marks and marking the locations of the bench marks in the survey plans all complete as directed. (Ref. HFL of each BM as also the same should be highlighted on Contour Plan).	Nos.	2		
	Total Cost Rs.				



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HYDROLOGICAL SURVEY

Sl. No.	DESCRIPTION	UNIT	QTY	RATES IN FIGS & IN WORDS	AMOUNT
1.	Hydrological Survey to be carried out as per enclosed specification of hydrological survey as per the location decided by the Consultant of Hydrological Survey at the appropriate place to get potable, more water for purpose of re-charge wells(rain water harvesting)all complete.	Acre	35.11		
2	Conducting laboratory determination of Soil Permeability test as per IS-2720 part-17 and 36,1986 for Environment approval.	Each	2		
	Total Cost Rs.				

