

प्रश्न सं. [क. 355]

[22/12/2022]

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पृष्ठ क्र० 1-2-2 (4)

**Maulana Azad National Institute of Technology, Bhopal**

(An Institute of National Importance)

**DEPARTMENT OF CIVIL ENGINEERING**

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Ref. CE/2012/ 247



Dated 28/10/2012

To  
Chief Municipal officer  
Nagar Palika Parishad  
Itarsi

Ref.: Your letter No. N. Pa./Lokkarma/11/1413 dated 22-03-11, Na Pa E/ 2012/48 dated 17.01.2012, Napai/2012/372 dated 18.07.12. Napai/2012/661 dated 17.09.12 and our reference No. CE/165 dated 22/07/11 and CE/2012/143 dated 3.07.12.

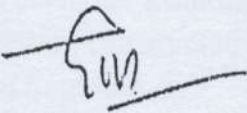
Subject: *Assessment of quality, strength and valuation of existing incomplete multipurpose shopping complex building constructed near railway station Itarsi*

Sir,

Please find enclosed herewith the report on the above mentioned subject.  
Kindly acknowledge the receipt of the report mentioning completion of work assigned to Department of Civil Engineering, MANIT, Bhopal in this consultancy.  
In case of any clarification, please communicate.


Thanking you.

Enclosure: report as above.

  
Dr. P. K. Jain  
Professor, Civil Engg.  
Coordinator Project



  
Sub Engineer  
Urban Administration & Development  
M.P. Bhopal

  
अनुभाग अधिकारी  
नगरीय विकास एवं आवास विभाग  
मध्य प्रदेश शासन



The columns have been checked and if defects are rectified properly they will have strength given in Table 8 (ANNEXURE-I). It is worked out for steel of grade (Fe 415) and the strength of concrete as M-15.

The beams and slabs are also deficient in quality and their strength could be checked provided loading conditions are known.

The footings are hidden items and there, size and strength can not be assessed.

## 5.0 VALUATION

Valuation of the existing structure was done by M/S Vardhman Associates, Bhopal. Following considerations are made in the valuation of the structure:

- Detailed physical measurement of exposed components is taken for each element of structure such as columns, beams, slab and retaining wall etc., however, details could not be taken for hidden items such as foundation, the soil below foundation.
- Cost of construction is worked-out on the bases of rate of P.W.D. SOR-1999 with respective consideration of cost enhancement as on 2007.

The details of valuation are attached as ANNEXURE-I of this report.

The estimated value of work done is Rs 37, 37,000.00 (Rupees Thirty seven lakh Thirty seven thousand only) which is checked and found in order.

## 6.0 CONCLUDING REMARKS

The quality of work carried by the contractor has been assessed by visual inspection and NDT test. Some of the places where the strength of members is less than M15, are pointed out. The work has deviation from the drawings in position of members. This fact has been made clear by superimposing constructed column position to that proposed in drawings given by Architect/ Structural Engineer.

The valuation of the structure has been carried on the bases of rate of P.W.D. SOR-1999 with respective consideration of cost enhancement as on 2007 and a sum of Rs 37, 37,000.00 (Rupees Thirty seven lakh Thirty seven thousand only) has been arrived at. The municipal council may take decision for further action in the matter as regards completion of structure. The defects should be rectified, reconstruction to be taken up by competent agency. The structure may be redesigned considering existing conditions and for possible vertical extension.

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