

## प्रस्तावना

### म्हाडाच्या दक्षता व गुण नियंत्रण विभागा अंतर्गत IS / ISO ९००१:२००८ प्रमाणित साहित्य चाचणी प्रयोगशाळा

(संपर्क पत्ता: साहित्य चाचणी प्रयोगशाळा, खोली क्र. ६, तळमजला, गृहनिर्माण भवन, वांद्रे (पू), मुंबई - ४०००५१, दुरध्वनी क्र.: ६६४०५००९ / ६६४०५०९५)



म्हाडा अंतर्गत मुंबई स्थित विविध मंडळाच्या बांधकामासाठी वापरण्यात येणाऱ्या बांधकाम साहित्याचा दर्जा तपासण्यासाठी व योग्य त्या दर्जाच्या साहित्याचा प्रत्यक्ष बांधकामात वापर व्हावा यासाठी साहित्य चाचणी प्रयोगशाळा बॉम्बे हॉऊसींग बोर्ड अस्तित्वात असताना सन १९७४ साली स्थापन करण्यात आली. सन १९९२-९३पासून प्राधिकरणांने दक्षता व गुण नियंत्रण हा स्वतंत्र विभाग सुरु केल्यानंतर सदर प्रयोगशाळा उप मुख्य अभियंता यांच्या नियंत्रणा खाली देण्यात आली. या प्रयोगशाळेमध्ये मुख्यत्वे सिमेंट, स्टिल , वाळू, विटा, खडी, विविध प्रकारचे टाईल्स इत्यादी मुलभूत साहित्याची भारतीय मानक संस्थेने ठरविलेल्या निकषानुसार चाचण्या करण्यात येतात. प्रयोगशाळेचे दैनंदिन कामकाज व विविध चाचण्या कार्यकारी अभियंता दक्षता व गुण नियंत्रण यांच्या मार्गदर्शनाखाली उप.अभियंता व शाखा अभियंता मार्फत करण्यात येतात. म्हाडाची प्रयोगशाळा IS / ISO 9001:2008 प्रमाणित असल्याने म्हाडा व्यतिरिक्त इतर शासकिय तथा खाजगी संस्था यांच्या मार्फत देखिल मोठ्या प्रमाणावर बांधकाम साहित्य चाचणीसाठी प्राप्त होते.

प्रयोगशाळेत चाचणी करण्यात येणाऱ्या विविध साहित्यांचा तपशिल व त्यासाठी आकारण्यात येणारे दर दर्शविणारे परिपत्रक खालील प्रमाणे आहे.

No.: Dy.CE/VQC/MTL/ 333 /10  
Maharashtra Housing & Area  
Development Authority,  
Griha Nirman Bhavan,  
Bandra (E),  
Mumbai – 400 051.  
Date :- 29/03/2010

## **CIRCULAR**

Sub:- Schedule of testing Charges for MHADA  
Laboratory.

Ref:- i) This office Circular No. Dy.CE/VQC  
/MTL/245/08/Dt. 13.03.08

The Material testing charges previously fixed vide circular No.: Dy.CE/VQC/MTL/245/Dt.13/03/2008 for Material Testing Laboratory /MHADA have been revised. The revised rates will come in force with effect from 1.04.2010 till the further orders. A copy of the revised rates for different tests is enclosed herewith for ready reference.

All the concerned officers / field staff are requested to take a note and strictly follow the instructions given in the note along with this circular.

**Encl:-** 1) Appendix – I along with important  
instructions.  
2) Annexure-I

**Sd/-**  
**Deputy Chief Engineer**  
**Vigilance & Quality Control Cell**  
**MHADA**

**APPENDIX-I**

**Circular No. DYCE/VQCA/MTL/ 333 /Date:29/03/2010**

<b>Sr. No.</b>	<b>Particular of Test</b>	<b>Rate in Rs.</b>	<b>Sample Required</b>
1	<p align="center"><b><u>CONCRETE</u></b></p> <p>(a) Compressive strength of C.C. Cubes/Mortar Cubes.</p>	300.00	One set of three Cubes
2	<p align="center"><b><u>COARSE AGGREGATES / RUBBLE</u></b></p> <p>(a) Sieve analysis                      (b) Specific gravity                      (c) Water absorption                      (d) Impact value                      (e) Abrasion test (Los Angeles)                      (f) Crushing Value                      (g) Flakiness index</p>	300.00 250.00 450.00 350.00 600.00 400.00 220.00	One bag of 20kg.
3	<p align="center"><b><u>BRICKS</u></b></p> <p>(a) Water absorption                      (b) Compressive Strength</p>	450.00 300.00	Set of ten Nos. of bricks.
4	<p align="center"><b><u>FLOORING TILES</u></b></p> <p>(a) Water Absorption                      (b) Flexural Test                      (c) Abrasion Test</p>	450.00 350.00 590.00	Set of 18 Tiles.
5	<p align="center"><b><u>PRECAST SOLID / HOLLOW CONCRETE BLOCK/ AUTOCLAVE CELLULAR BLOCK</u></b></p> <p>(a) Compressive strength test Hollow block                      (b) Compressive strength test Solid Block                      (c) Block density Test                      (d) Absorption Test</p>	700.00 360.00 200.00 450.00	Set of 14 blocks.
6	<p align="center"><b><u>CEMENT</u></b></p> <p>(a) Fineness (by Sieving)                      (b) Soundness by Le-Chatelier's test                      (c) Setting time (Initial &amp; final)                      (d) Compressive Strength test                      (e) Standard Consistency test</p>	300.00 280.00 300.00 600.00 225.00	Minimum of five kgs.

7	<p align="center"><b><u>FINE AGGREGATE</u></b></p> <p>(a) Silt and Clay Content (b) Fineness Modulus Test (Sieve Analysis)</p>	<p align="center">400.00 300.00</p>	5kgs.
8	<p align="center"><b><u>STEEL</u></b></p> <p>(a) upto 16mm (b) above 16mm (Tensile strength, %, Elongation, Yield stress, Weight -Per Meter, Bend/Rebend Test Proof Stress)</p>	<p align="center">600.00 800.00</p>	<p align="center">Three bars of one meter length. (Machined sample shall be provided for testing of bars having dia&gt; 25mm)</p>
9	<p align="center"><b><u>TIMBER</u></b></p> <p>(a) Moisture content test (b) Density</p>	<p align="center">300.00 300.00</p>	<p align="center">Minimum 300mm length per section.</p>
10	<p align="center"><b><u>HAMMER TEST</u></b></p> <p align="center">On Concrete</p>	<p align="center">2500.00 Minimum Rs.25.00 per shot.</p>	<p align="center">Agency to arrange transportation of staff and equipment.</p>
11	<p align="center"><b><u>CONCRETE PAVING BLOCK</u></b></p> <p>(a) Compressive strength (b) Water Absorption (c) Flexural test (d) Resistance to wear</p>	<p align="center">800.00 450.00 800.00 800.00</p>	<p align="center">8 No. of blocks 3No. of blocks 8 No. of blocks 3 No. of blocks</p>
12	<p align="center"><b><u>CERAMIC TILES/VITRIFIED TILES</u></b></p> <p>(a) Water Absorption (b) Modulus of rupture</p>	<p align="center">450.00 350.00</p>	<p align="center">7 No. of Tiles 7 No. of Tiles</p>
13	<p align="center"><b><u>GLAZED TILES</u></b></p> <p>(a) Determination of impact resistance (b) Water Absorption (c) Modulus of rupture</p>	<p align="center">400.00 450.00 350.00</p>	<p align="center">6 No. of Tiles 6 No. of Tiles 6 No. of Tiles</p>
14	<p align="center"><b><u>WATER</u></b></p> <p>(a) PH Value (b) Sulphate &amp; Chloride content</p>	<p align="center">200.00 425.00</p>	1 Liter

**Sd/-**  
**Deputy Chief Engineer**  
**Vigilance & Quality Control Cell**  
**MHADA**

## **Important Instructions:**

- (1) All requests for testing of samples must be made in writing as per the Annexure-I enclosed in duplicate specifying therein the following information.
  - (a) Name of the work, Agreement number, Name of Agency , Work order No. & cost put to tender.
  - (b) Type of material and tests desired (i.e. grade of cement, date of consignment & brand)
  - (c) Identification mark on the sample should be mentioned on the forwarding memo (In case of concrete cubes for beams ,columns , slab etc., identification mark, grade of concrete, type of mix ,date of casting, specimen number etc. should be engraved on concrete cubes.)

If these details are marked by paint, samples will not be accepted. In case of reinforcement bars, details shall be displayed on label pasted on bar and label must be signed by the officer who has taken samples.
  - (d) Name and full postal address of the Officer to whom the result must be sent.
  - (e) Date of sampling.
  - (f) Any other information which is specified by the user department.
- (2) Samples must also bear the identification mark and signature of "Engineer-in-charge".
- (3) Quantity of sample must be as per the Appendix –I (Schedule of testing charge) and the specification with which the sample is to be tested shall be clearly mention on forwarding memo by the Engineer-in-charge.
- (4) Full testing fees shall be paid in advance between 10.00 A.M. and 1.30 P.M. on working days except Saturday, and between 10.00A.M. and 12 noon on Saturday.
- (5) For issuing additional copies or duplicate copies, Rs. 100/- will be charged for each copy. Request for additional/duplicate copy should be made in writing by Engineer in-charge or higher Officers of the user department.
- (6) Cement samples should be forwarded in sealed airtight Container.
- (7) The steel samples for tensile testing of reinforcing bars, shall be straight for entire length without bends. The ends of bars shall be hack saw cut and not chisel cut.
- (8) Samples shall be carefully brought & unloaded at Laboratory without any defects.

**Sd/-**  
**Deputy Chief Engineer**  
**Vigilance & Quality Control**  
**Authority**

**Annexure-I**

No. /DE/...../..... Board

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To,  
The Executive Engineer,  
Vigilance and Quality Control,  
Material Testing Laboratory,  
MHADA, Mumbai.

Sub.:- Testing of Materials.

I am sending herewith following building Materials for Laboratory testing.

- 1) Name of Work :- .....
- 2) Agreement No. :- .....
- 3) Name of Agency :- .....
- 4) Cost put to Tender :- .....
- 5) Work order No. & date :- .....
- 6) Type of Seal: (Tick appropriate) /Tag Seal/Lakh Seal/Lable.
- 7) Samples:-.....

Sr. No .	Material	Size in mm (Wherever required)	Identification Mark	Dt. of Casting/Mix	Quantity	Test Required

The above mentioned Materials sent for testing are true representative sample of material brought on site for construction by the contractor.

The necessary testing charges be recovered from the above agency.

The test reports be sent to this office.

Dy. Engineer

.....Division  
.....Board

Copy to Contractor M/s..... for necessary action.  
Copy to Architect M/s..... for necessary action.  
Copy to Dy.Engr. Shri..... for necessary action.