



**Specific Rules for Batch Certification of Sand As Per Admin Order 143/1991**

**Dubai Central Laboratory- Inspection and Certification Section**

Doc. Ref : RD-DP20-1105 (IC)

Rev. No.: 3

Issue Date :12-07-2009

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Issue Date	Rev. No.	Summary Of Amendments
17/02/2004	0	Draft for comments
26/04/2005	0	Final draft
04/10/2005	1	Issue for use
04/05/2008	2	Updating of signatories and format.
12-07-2009	3	Document reference number and format is changed according to the new IMS. Test methods are removed, (in accordance with the test methods specified in the Standard Specifications).

Prepared by

Authorized by

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**1. INTRODUCTION**

- 1.1 This document contains the specific rules for the implementation of the DM Third Party Product Certification System Through Batch Testing as applied to the specific product(s) identified herein, taking into consideration the applicable normative references (Standard Specification or regulations), as well as the unique characteristics and production method for that product (or group of products).
- 1.2 The applicant shall comply with these specific rules, **and** with those already mentioned in the "General Rules for DM Third Party Product Certification System Through Batch Testing" (**RD-DP20-1001**).
- 1.3 This specific rule is applicable to the mandatory implementation of Administrative Order 143/1991.

**2. PRODUCT IDENTIFICATION AND APPLICABLE STANDARD/NORMATIVE REFERENCE**

- 2.1 Product name: Sand
- 2.2 Applicable standard/Normative reference: Administrative Order 143/1991 Controlling the use of sand in concrete produced in ready-mix plants and central batching units at work sites
- Advisory Note on Building Materials Specification: 1991 No. 001 – Concrete Aggregates.

**3. DEFINITION OF TERMS**

- 3.1 Independent Testing Laboratory - Dubai Central Laboratory Department or any testing laboratory recognized by the DM Certification Body.
- 3.2 Standard Specification – Advisory Notes on Building Materials Specifications: 1991 No. 001
- 3.3 Lot – is equivalent to the quantity of 1 stockpile or 1 bin of sand not exceeding 5000 m<sup>3</sup>.
- 3.4 Supplier – refers to the any ready mix plant (RMX) or central batching units (CBU) operating in Dubai who uses sand in producing ready mix concrete.

**4. GENERAL REQUIREMENTS**

- 4.1 The supplier shall have a valid license (issued by Dubai Department of Economic Development) to supply the product.
- 4.2 The supplier shall have a factory/yard within Dubai Emirate wherein products subject to certification will be stored and where sampling shall take place.
- 4.3 The supplier shall be registered with the DM Certification Body.

**5. REGISTRATION OF THE SUPPLIER**

- 5.1 Documents required to be submitted for registration:
- Copy of the valid trade/industrial license issued by the Dubai Department of Economic Development;
  - Copy of the quality/operation manual of the ready mix and concrete plant
  - Curriculum Vitae of RMX / CBU representative
  - Fine aggregate register of the RMX / CBU
  - Notification for readiness to start plant operation and product certification

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5.2 Items to be verified during the initial factory/yard inspection:

- Visual verification of the factory/yard
- Visual verification of the Bin /Stockpile numbering system
- Sand register
- Sand and Concrete Delivery Voucher

5.3 DM-Certification Body shall carry out initial testing of the product. The DM-Certification Body shall draw random samples from the factory and submit the samples for testing (in accordance with the test methods specified in the Standard Specification) at an Independent Testing Laboratory for the following tests:

- a. Wet Sieve Analysis
- b. Water Absorption /Specific Gravity
- c. Acid Soluble Chloride Content
- d. Acid Soluble Sulphate Content

The results of testing shall meet the requirements specified in Table 2 of the standard specification.

5.4 After satisfying the above requirements, the establishment shall be informed officially and shall be included in the list of registered Suppliers for this certification scheme.

**6. ROUTINE CERTIFICATION PLANNING**

6.1 Routine certification shall be in accordance with the plan prepared by DM Certification Body that is based on the record of sand consumed by registered ready mix plant and central batching unit.

6.2 Based on the routine certification plan, DM representative will visit the supplier to collect samples of the sand from all available lots that are ready for certification.

6.3 The frequency of collecting the sample as mentioned in the plan may be revised depending on the quantity of sand being consumed by the supplier.

**7. SAMPLING AND TESTING**

7.1 Sampling of sand shall be in accordance with ASTM D 75. A representative sample shall be drawn in random from the lot that is subject to certification.

7.2 The sample shall be submitted for testing at the Independent Testing Laboratory. Routine tests to be carried out for the sample drawn (in accordance with the test methods specified in the Standard Specification) are as follows.

7.2.1 Wet Sieve Analysis every batch

7.3 Additional test to be carried out at specified intervals are as follows

7.3.1 Acid Soluble Chloride Content every six months

7.3.2 Acid Soluble Sulphate Content every six months

7.3.3 Specific Gravity and water absorption every six months

7.4 The result of a particular test is considered "PASSED" if it meets the requirements as given in the Standard Specification. If not, it is considered as "FAILED".

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**8. ISSUE OF CERTIFICATE OF CONFORMITY**

- 8.1 If the results of the above-mentioned tests are all "PASSED", a Certificate of Conformity shall be issued for the particular lot where the sample was taken.
- 8.2 If one or more of the results is "FAILED", a Certificate of Non-Conformity shall be issued for the particular lot.
- 8.3 If the sand is "Non-Conforming" the supplier is given the option to blend the failed product with the other types of sand provided that the blended materials meet the requirements of the specification and subject to the approval of the DM certification body. The supplier shall propose a blending proportion and obtain approval from the DM Certification Body.

**9. FEES**

- 9.1 The DM Certification Body shall charge the following fees in accordance with the fee schedule:
- 9.1.1 Sampling Fee  
9.1.2 Travel time fee  
9.1.3 Certification fee
- 9.2 The DM Certification body shall send an Invoice for any certification service rendered to the Supplier. Fees shall be paid to Dubai Central Laboratory Department.
- 9.3 Testing fees shall be paid by the client directly to the Independent Testing Laboratory that carried out the tests.

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