

**Appendix (7.2.1.1) Circular No. (7-2-1) of 2021**

**Dated 23/08/2021G**

**Regarding : Concrete**

**Dear Engineering Consulting Firms and Building Contracting Companies**  
**Greetings,**

Please adhere to the following requirements:

**First: Ready-Mixed Concrete Factories**

A special register for ready-mixed concrete factories and on-site mixing units has been prepared. All factories and on-site mixing units operating in the Emirate of Dubai, that are authorized to supply ready-mixed concrete or pre-fabricated structural elements to construction sites located in the Emirate have been registered. All ready-mixed concrete factories and on-site mixing units operating in the Emirate of Dubai have to renew their registration with the Building Permits Department at Dubai Municipality, provided that all requirements and conditions set forth below are met.

1. Requirements for registration and renewing registration in the ready-mixed concrete factories and on-site mixing units register as set out in [Appendix \(7.2.1.1\)](#)
2. Requirements for registration and renewing registration in the ready-mixed concrete factories and on-site mixing units register as set out in [Appendix \(7.2.1.2\)](#)
- **Administrative Resolution No. 316 of 2012 regarding control over ready-mixed concrete factories and on-site mixing units in the Emirate of Dubai, [Appendix \(7.2.1.3\)](#)**
- **Conformity Certification Application Form**  
<https://newsartservices.dm.gov.ae/ProductConformityCertification/SubmitRequest>
- **General requirements for granting conformity certificates**

<https://www.dm.gov.ae/documents/rd-dp21-2001-ic/>

- Special requirements for granting conformity certificates

<https://www.dm.gov.ae/documents/rd-dp21-2177-ic-pdf/>

## Second: Supply of Ready-Mixed Concrete

1. Ready-mixed concrete factories shall verify the existence of a building permit issued by Dubai Municipality before supplying ready-mixed concrete products to projects located within areas that are subject to municipal legislation.
2. Penalties and sanctions stipulated in Local Order No. (3) of 1999 on the regulation of construction work in the Emirate of Dubai, including temporarily or permanently suspending the license of the violating factory, shall be imposed.

## Third: On-Site Concrete Mixing Units

All consulting firms, contracting companies and ready-mixed concrete factories operating in the Emirate of Dubai shall adhere to the following requirements regarding on-site concrete mixing units:

### A. Factories and projects permitted to have temporary concrete mixing units in them

1. Approval may be granted to establish a temporary on-site mixing unit in the projects described below pursuant to a special request submitted to the Building Permits Department of Dubai Municipality indicating the necessity of having such units on the project site:
  - Large development complex projects
  - Large projects whose need for ready-mixed concrete exceeds (200 thousand cubic meters)
2. The temporary on-site mixing unit must belong to a ready-mixed concrete factory licensed in the Emirate of Dubai and registered in

the register of manufacturers and suppliers of building materials at the Building Permits Department of Dubai Municipality, provided that the factory's registration is valid.

## **B. Requirements for temporary mixing units on work sites and approval procedures**

1. All requirements contained in Administrative Resolution No. (316) of 2012 shall be adhered to.
2. A request for initial approval to establish an on-site concrete mixing unit shall be submitted by the parent factory to the Building Permits Department of Dubai Municipality after the building permit is issued for the project to be provided with the temporary mixing unit, provided that data related to the project is provided.
3. An analytical study shall be submitted to show the extent of reducing the movement of vehicles that transport and mix ready-mixed concrete on the roads.
4. An application to register the temporary on-site concrete mixing unit in the register of suppliers and manufacturers of building materials shall be submitted to the Building Permits Department in accordance with Administrative Resolution No. (316) of 2012G.
5. The on-site concrete mixing unit's registration shall be renewed every (6) months in order to evaluate the project's actual need for ready-mixed concrete and the continued availability of approved technical personnel.
6. The continued availability of the conformity certification of the on-site mixing unit issued by the Dubai Central Laboratory shall be ensured upon every renewal.
7. An environmental no-objection certificate shall be obtained from the Environment Department at Dubai Municipality. The

continued validity of such certificate must be ensured upon every renewal. A safe isolation distance of no less than (1000 m) separating the on-site mixing unit from populated areas shall be ensured. Furthermore, all modern means necessary to prevent all forms of pollution shall be used. Pollution includes air pollution resulting from dust from paved and unpaved surfaces, the processes of loading, unloading, transporting and handling raw materials and mixing and transporting concrete. This includes also pollution resulting from burning fuel or using refrigerant gases, noise pollution resulting from concrete preparation processes, or pollution resulting from the use and storage of chemicals, petroleum and oils, or manufacturing waste, including waste water, excess or damaged concrete, or containers of various types. This is for example without limitation in accordance with the requirements of the Environment Department of Dubai Municipality.

8. The continued availability of public safety means shall be ensured upon renewal. You shall ensure the availability of control systems and safety procedures during unloading raw materials. You shall also ensure the availability of alarm and fire-fighting equipment and the use of personal protective equipment, fall protection equipment and appropriate lighting. You shall also ensure that vehicle routes are separated from pedestrian pathways. This is for example without limitation in accordance with the requirements of the Safety Guide on Construction Sites and the requirements of the Public Health and Safety Department at Dubai Municipality.
9. You shall ensure that the Planning Department at Dubai Municipality approves the continued presence of the concrete mixing unit in the sites built on lands leased from the Municipality

in accordance with the procedures followed in the concerned department.

10. The location of the on-site concrete mixing unit shall not be less than (10 km) away from its permanent parent factory.
11. The temporary on-site concrete mixing units shall adhere to the licensed place and time. They shall not supply concrete products to construction sites other than the site for which they are licensed.
12. All vehicles that transport and mix concrete shall belong to the parent factory. They shall be licensed within the Emirate of Dubai and shall have the conformity certification. The technical personnel working in the on-site mixing unit or factory shall be sponsored by the parent factory in the Emirate of Dubai.
13. All relevant parties to the project, including the consultant, contractor, and concrete factory, shall be responsible in solidarity for the quality of concrete on the construction site, each within its area of competence.
14. The on-site concrete mixing units shall cease to operate if the parent factory fails to meet the licensing requirements. Furthermore, the factory's registration with Dubai Municipality shall be suspended.

#### Fourth: Concrete

- All consulting firms, contracting companies, concrete factories and suppliers in the Emirate of Dubai shall adhere to the following requirements:
  1. Using Ground Granulated Blast Slag (GGBS) and fly ash with Portland cement in concrete mixes.

2. Using these materials in percentages as set out in [Appendix \(7.2.1.5\)](#), which shows the percentages of environmentally-friendly cement materials.
  3. This Resolution shall be optionally implemented as of 01/04/2015 for all new buildings, provided that consulting firms, contracting companies, and concrete factories are technically and legally responsible for the application process, each within its own area of competence and responsibilities.
  4. The table of concrete mixes for the purposes of using environmentally-friendly cement materials in the manufacture of concrete is set out in Appendix [\(7.2.1.4\)](#).
- The table set out in Appendix [\(7.2.1.4\)](#) can be replaced by adhering to Dubai Sustainable Concrete Baseline (DSCB), which is considered an alternative solution to the green concrete requirements set out above.
  - Dubai Sustainable Concrete Baseline (DSCB) represents the maximum permissible environmental impact for concrete mixes based on the Environmental Product Declaration (EPD) study that was conducted based on data collected from some concrete factories operating in the Emirate of Dubai.

In this regard, new services have been introduced and approved by the Building Permits Department to enable customers to evaluate their concrete mixes using the (Dubai Sustainable Concrete Baseline).

Appendix [\(7.2.1.5\)](#) provides a summary of these services

#### **Fifth: Contracting Companies Specialized in Post-Tension Concrete Works**

- All contracting companies specialized in post-tension concrete works licensed in the Emirate of Dubai and authorized to operate shall adhere to the following requirements:
  1. Renewing the annual approval granted by Dubai Municipality.

2. Avoiding using any materials related to the system other than those materials of the company they are joint with (owner of the system), with the exception of strands, provided that they have a conformity certificate issued by the Dubai Central Laboratory.
3. Providing an engineer under the sponsorship of the company with an experience for no less than five years in the field of post-tension concrete design, provided that he/she is approved and registered in the practice register with the Municipality after passing the technical interview. The certified engineer shall be responsible for preparing and reviewing designs and carrying out the necessary follow-ups with the Municipality for licensing purposes.
4. The companies that own the system and the companies that implement it shall be responsible in solidarity to adhere to the provisions of this Circular, noting that failure of any company to adhere to its provisions shall lead to the cancellation of the granted approval, and thus non-compliant companies shall not be able to practice activity in the Emirate.

**“This is a technical translation, in case of ambiguity Arabic version will prevail “**