# TÜV INDIA PRIVATE LIMITED

# 

# APPLICATION

Intended certification: **(Tick mark as applicable)**

 Certification according to Ready Mix Concrete Plant Certification (RMC)

 Certification according to Ready Mix Concrete Plant Certification Scheme 9000+

**CERTIFICATION / RE – CERTIFICATION**

**( Tick Mark which is applicable )**

**TUV INDIA PRIVATE LIMITED**

**801, Raheja Plaza – I, L.BS Marg,**

**Ghatkopar (W), Mumbai 400 086**

**Tel : 022-66477000 Fax : 022-6647009**

**E-Mail: mumbai@tuv-nord.com**

**Visit us at www.tuv-nord.com/in**

This questionnaire is intended as a self-description of your company. The questionnaire helps

TÜV India Pvt. Ltd. to estimate the scope of and resulting effort involved in the performance of a certification

I. General Questions

Company : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Corporate/ Legal Entity ­­­­­­­­­­­­­­­­­­­­­­­­­­: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Address:

Phone Tel: +91\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Fax: +91 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

GST No. : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TAN No.\_\_\_\_\_\_\_\_\_\_\_\_\_ PAN No. \_\_\_\_\_\_\_\_\_\_\_\_

Billing address \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Homepage : ­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Organisation Profile : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(Age of company, whether part of a group-describe

Head Office Address : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Top Management**

Name: : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Phone: :+ 91 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Fax; +91 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Email: :\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## 

## Representative

Name / Dept. : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Phone: + 91 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Fax: 91 22 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Email : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Consultancy By : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scope of System **: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

*Please attach Organization Chart*

*Please attach simple process flow chart.*

II. Basic Questions

A. Raw Materials : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**B. Status of Application or Certification to any other Certification Body:**

*Note: Copy of certificate and audit reports of previous CB required to be provided.*

|  |
| --- |
| Certification Standard:  RMCPS Certification Body: Certificate Validity Date:  RMCPS ISO 9000+ Certification Body: Certificate Validity Date:  If any of above Certificate are under suspension or cancelled:  Yes  No  ***Status of application with other CB, if not yet Certified:*** |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| C Number of employees | | Site 1 | Site 2 | Head Office |
| at the individual sites:(use separate sheet for additional sites) TOTAL | |  |  |  |
| Of which working in | - management/administration: |  |  |  |
| - research/development/design |  |  |  |
| - production |  |  |  |
| - quality, inspection and testing: |  |  |  |
| - sales: |  |  |  |
| - other, (e.g. Purchase, Stores, field staff, laboratory staff, etc.): |  |  |  |
| - contract Labourers |  |  |  |

For additional site information, submit an annex

**D. No. of sites / subsidiaries:** total no of sites \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
| Addresses of sites / subsidiaries/ | No. of employees | |  |
| warehouse/ Regional Offices / Branch Offices /Sales offices\*\* | Regular | Others\* | Please list out the activities performed |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

Please Fill the Information Required in the Annexure

**Annexure**

**Table 1: General Information of Ready Mixed Concrete Facility (3.1.1 of Section A)**

|  |  |
| --- | --- |
| Company Name |  |
| Company Address  (Register office)  Tel.  Fax  E-mail |  |
| Location of Plant |  |
| Address of Plant  Tel. Fax  E-mail |  |
| Personnel information  • Plant-in- charge/Manager  • QC personnel  • Liaison personnel | Name  Telephone  Name  Telephone  Name  Telephone |
| Material Testing Facilities | Location and address  Name of lab in-charge  Telephone |
| Statutory Permissions\* | 1. Certificate from Pollution Control Board  Yes □ No □ N.A. □  Expiry date:  2. Approval from factory inspector  Yes □ No □ N.A. □  Expiry date:  3. Approval from Local Authorities (Municipal/Corporation/other) Yes □ No □ N.A. □  Expiry date: |

\* It is essential to attach photocopies of all relevant statutory permissions and certificates.

**Table 2: General Information on Concrete Production Facilities (3.1.1 of Section A)**

|  |  |
| --- | --- |
| Name of Plant Manufacturer |  |
| Type of Plant |  |
| Plant’s Rated capacity, m3/hour |  |
| Type of Mixer\* | Rotating-drum type  Power mixer □ Planetary Mixer □  Pan type □ Pan-type with agitator □  Single shaft □ Twin shaft □ |
| Mixer batch size, m3 |  |
| Storage Capacity |  |
| Cement, tonnes |  |
| Fly ash, tonnes |  |
| Slag, tonnes |  |
| Other cementitous material, tonnes |  |
| Coarse aggregates, tonnes or m3  10-mm  20-mm  40-mm |  |
| Fine aggregates, tonnes or m3  River sand  Manufactured sand |  |
| Crusher fines, tonnes or m3 |  |
| Water, litres |  |
| Chemical admixtures, litres |  |
| Plasticiser  Superplasticiser  Retarder  Any other |  |
| Others |  |
| \*\*Brief description of recycling facility,  if any |  |
| Number of trucks with rated capacities |  |
| Name of drum and truck manufacturer | 1  2  3 |
| \*\*Additional information on Plant & Trucks, if any |  |

\* Tick (√) in appropriate box. \*\*Add extra sheets if essential

**Table 3: General Information on Material Handling (3.1.1 of Section A)**

|  |  |  |  |
| --- | --- | --- | --- |
| *Material* | *Delivery to Plant* | *Storage* | *Storage to Weigher* |
| Cement | Bulk  Bags | Silo  Godown | Screw conveyor  Air Slide ; Gravity |
| Coarse aggregates | Trucks | Star pattern  In-line bins compartments  Tall/ pocket silos | Conveyor  Skip bucket  Bucket conveyor |
| Fine aggregates | Trucks | Star pattern  In-line bins  compartments Tall/pocket silos | Conveyor Skip  bucket Bucket  conveyor |
| Fly ash | Bulk  Bags | Silo  Bins | Screw conveyor  Manual |
| Slag | Bulk  Bags | Silo  Bins | Screw conveyor  Manual |
| icro silica | Bags | Silo  Godown | Screw conveyor  Manual |
| Other cementitious material (specify) | Bags | Silo  Godown | Screw conveyor  Manual |
| Water | Mun. mains  Wells  Ponds | Underground/over-ground tank | Pumping  Gravity flow through  pipe network |
| Chemical admixtures(Liquid) | Drums  Tankers | Drums  Tanks | Dispenser |
| Chemical admixture or additives | Bags | Godown | Manual |
| Special arrangement for supplying temperature- controlled concrete, if used | Occasional use Not used  Arrangement  1. Addition of ice slabs in mixing water tank  2. Addition of ice flakes in mixing drum  3. Chilling Plant  4. Combination of above (1/2/3) | | |

**Table 4: List of Minimum Testing Equipment for Laboratory attached to RMC Facility (3.3 of** **Section A)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| *Sl. No.* | *Relevant test*  *and BIS Standard* | *Name of equipment* | *Minimum no.*  *of units* | *Calibration*  *frequency and relevant code* | *Whether*  *calibration done as specified and records kept* | |
| 1. | Slump test  (IS 1199-  1959) | Slump cone test apparatus with all  accessories such as base plate, tamping rod, etc. | 2 sets | Yearly  IS 1199 | Yes | No |
| □ | □ |
| 2. \* | Compressive  strength of concrete \*(IS  516) | Compression Testing Machine with  minimum 2000 kN capacity, conforming to IS 14858 \* | One no. | Yearly  IS 516 | □ | □ |
| 3. | Preparing  concrete test specimens  (IS 1199) | Cube moulds of size:  • 150 mm x 150 mm x 150 mm  • 100 mm x 100 mm x 100 mm | 30 nos. | Yearly  IS 10086 | □ | □ |
| 4. | Sieve analysis  of fine and coarse aggregates  (IS 2386- Part  I) | IS Test sieves for fine and coarse  aggregates  • 40 mm, 25 mm, 20 mm, 12.5 mm, 10 mm, 6.3mm, 4.75 mm, and lid+pan  • 10 mm, 4.75 mm, 2.36 mm,  1.18 mm, 600 μm, 300 μm,  150 μm, 75 μm, 45 μm and lid+pan | one set for  coarse and fine agg. each | Yearly  IS 2386 – Part I | □ | □ |
| 5.# | Sampling of aggregates # (IS 2430) | Sieve shaker for fine aggregates # | One | Yearly | □ | □ |
| Sample divider for sampling of  aggregates # | One | Yearly | □ | □ |
| 6. | Unit weight  of concrete  (IS 1199) | Bulk density pot for fresh concrete  (10 lit) | one no. | Yearly  IS 2386–Part III | □ | □ |
| 7. | Aggregates  Bulk density( IS 2386- Part III) | Bulk density pot for fine (3 or 5 lit)  and coarse aggregates (7 or 10 lit) | one no each  for coarse &  fine agg. | Yearly  IS 2386 – Part III | □ | □ |
| 8. | Silt content of  sand | Graduated glass cylinder (500 ml) for  determining silt content | one no. | - | □ | □ |
| 9. | Specific  gravity of aggregates | Pyknometer and density basket or  Gas Jar for determining specific gravity of aggregates  (P.T.O) | one no. | Yearly  IS 2386–Part III | □ | □ |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| (Continued from previous page)) | | | | | |
| Other  accessories | Electronic weighing balance of adequate capacity with accuracy of 1 g. | One | Yearly | □ | □ |
| Laboratory mixer (min 50 lit) | One | Man.  specified | □ | □ |
| Electric microwave oven (IS 11332) | One | Yearly IS 6365 | □ | □ |
| Concrete compaction equipment’s (Table vibrator / needle vibrator, tamping rods) | One | Yearly | □ | □ |
| Curing tank with provision to maintain 27±2⁰ C temperature of water | One | - | □ | □ |
| Shovels, trowels, flexible spatulas, meter, etc. | Sufficient nos. | - | □ | □ |

Notes:

# Alternatively, shaking of sieves done manually and sampling of aggregates done by quartering technique shall be permitted.

\* In case the CTM lab is not available in the lab, concrete cubes shall be tested in the RMC Company/Organization’s other lab in the same city, provided due care is taken to transfer the cubes with proper precaution and identification for standard curing for 28 days.

Wherever flexural strength is specified in addition to compressive strength, it is essential have nine nos. of beam moulds of 150x150x700mm size. It is also essential to have the facility of additional attachment for the CTM to carry out this test.

**Table 5: List of Sources of Incoming Approved Materials (4.2 of Section A)**

(Valid as on date: DD/MM/YY)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sr No.** | **Type of**  **Ingredient** | **Source and brand name**  **(if any)** | **Supplier’ name and**  **address** | **Acceptance**  **criteria followed for approval** | **Remarks** |
|  |  |  |  |  |  |
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**Table 6-A: Verification and Testing Frequency of Cement, SCMs, Water and**

**Chemical** **Admixtures (4.3.8 of Section A)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *Sl.*  *No* | *Material* | *Verification* | *Scope* | *Frequency* |
| 1. | Cement | * Delivery Documents * Manufacturer’s test certificate for physical and chemical properties | * Verify that the goods delivered match the purchase order (type, brand name, week of manufacture). * In case the supply is by bulker, verify lock seal nos. and ensure that they tally with the nos. on Challan * Manufacturer’s test certificate traceable to each consignment | * Each consignment |
| 2. | Supplementary  Cementitious  Materials (SCMs)   1. Fly ash(IS 3812 (Part1) 2. Ground Granulated Blast Furnace Slag (IS 12089 and BS 6699) 3. Microsilica (IS 15388) 4. Metakaolin | * Delivery Documents * Manufacturer’s test certificate on physical and chemical properties * Uniformity requirements as per relevant IS codes | * Verify that the goods delivered match the purchase order (type, brand name, week of manufacture) * Verify that each consignment has a manufacturer’s test certificate confirming all physical and chemical properties and performance conform to requirements of relevant IS codes traceable to each consignment. * Verify all uniformity requirement tests as per relevant IS code done from NABL- accredited lab at specified frequencies. | * All tests on physical and chemical requirements and performance specified by relevant IS code essential before finalizing source * All Uniformity tests as per relevant IS code performed once in six months from NABL- accredited lab |
| 3 | Water | * Delivery documents | * Shall be tested for suitability for concrete making as per IS 456-2000 at frequencies specified by IS 4926 for mains and non-mains water. | * For non-mains water: Initially every week for first six weeks and then at 3-monthly internal * For mains water: Annual basis once all tests for source are satisfactory |
| 4. | Chemical  admixtures | * Delivery Documents * Manufacturer’s test certificate for physical and chemical Properties, uniformity requirements and compatibility | * Verify that the goods delivered match the purchase order (type, brand name, week of manufacture) * Verify that each consignment has a manufacturer’s test certificate confirming all physical and chemical properties, performance, and compatibility with the cement conforming to requirements of IS * 9103 and is traceable to each consignment * Verify all Uniformity requirement tests as per IS 4926 done from NABL-accredited lab at specified frequencies | * All tests specified by IS 9103 essential before finalizing source * All Uniformity tests as per IS 4926 performed once in six months from NABL-accredited lab. * Compatibility tests shall be conducted whenever there is change in combination of cement and admixture. |

**TABLE 6-B: Verification and Testing Frequency for Aggregates (4.3.8 of Section A)**

**Delivery documents**

Delivery document shall be verified to check delivered aggregates match the purchase order and that their source is correct. Visual inspection shall be done to check normal appearance, shape, presence of excessive fines, impurities etc.

**Testing frequencies**

Aggregates shall be tested at a minimum frequency indicated below. The specified frequencies are in conformity with provisions in IS 4926 or stringent from the same.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *Sl.*  *No.* | *Aggregate property/parameter* | *Type of aggregate* | *Frequency of*  *Testing* | *Relevant IS Standard* | |
| 1. | Grading | Fine aggregate   * Uncrushed * Crushed Coarse aggregate * Uncrushed * Crushed | Weekly | IS 383-1970 | |
| 2. | Particle density   * Oven dry * Saturated surface dry * Apparent | Both fine and coarse aggregates | 3 monthly | IS 2386 (Part 3) | |
| 3. | Water absorption | Both fine and coarse aggregates | 3 monthly | IS 2386 (Part 3) | |
| 4. | Bulk density   * Loose * Compacted | Both fine and coarse aggregates | 6 Monthly | IS 2386 (Part 3) | |
| 5. | Particles finer than 75 μm | Fine aggregate-   * Uncrushed * Crushed | Weekly | IS 2386 (Part 1) | |
| 6. | Flakiness and Elongation indices | Coarse aggregates | 6 monthly | IS 2386 (Part ) | |
| 7. | Impact value | Coarse aggregate | Yearly or  change in source | IS 2386 (Part 4) | |
| 8. | Crushing value | Coarse aggregate | Yearly or  change in source | IS 2386 (Part 4) | |
| 9. | Abrasion value | Coarse aggregate | Yearly or  change in source | IS 2386 (Part 4) | |
| 10. | 10% Fines | Coarse aggregate | Yearly or  change in source | IS 2386 (Part 4) |
| 11. | Petrographic examination | Both fine and coarse aggregates | Once in 5 years  or change in source | IS 2386 (Part 8) |
| 12. | Alkali-aggregate reactivity | Both fine and coarse aggregates | Yearly or  change in source | IS 2386 (Part 7) |
| 13 | Soundness | Both fine and coarse aggregates | Yearly or  change in source | IS 2386 (Part 5) |
| 14 | Chloride content | Both fine and coarse aggregates | Yearly or  change in source |  |
| 15 | Deleterious materials | Both fine and coarse aggregates | Yearly or  change in source | IS 2386 (Part 2) |

**Table 7: Concrete mix information to be supplied by the purchaser (5.4 of Section A)**

Name of RMC Producer: Name of Client/Contractor: Site:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Mix code |  |  |  |  |  |
| Grade (Characteristic strength), N/mm2 |  |  |  |  |  |
| Minimum cement content, kg/m3 (if specified) |  |  |  |  |  |
| Mineral additives, kg/m3 (if specified)  • Pulverized fuel ash  • Slag  • Silica fume  • Others (mention type) |  |  |  |  |  |
| Maximum free water-binder ratio (if specified) |  |  |  |  |  |
| Nominal maximum aggregate size, mm |  |  |  |  |  |
| Cement type and grade (if specified) |  |  |  |  |  |
| Target workability at plant, (Slump, mm) |  |  |  |  |  |
| Target workability at site, (Slump, mm) |  |  |  |  |  |
| Maximum temperature of concrete at the time of placing (if specified) |  |  |  |  |  |
| Class of sulphate resistance  ( if applicable) |  |  |  |  |  |
| Exposure condition ( if specified) |  |  |  |  |  |
| Class of finish ( if applicable) |  |  |  |  |  |
| Total SO3 in Concrete (if specified) |  |  |  |  |  |
| Mix application |  |  |  |  |  |
| Method of placing |  |  |  |  |  |
| Any other requirements (if applicable) [early strength, workability retention, permeability testing, chloride content restriction, etc.) |  |  |  |  |  |
| Concrete testing frequency |  |  |  |  |  |
| Material testing (any non-routine requirement) |  |  |  |  |  |
| Method of curing to be used |  |  |  |  |  |
| Quantity (m3) |  |  |  |  |  |

*Source:* Adapted from IS 4926

**Table 8: Format for Mix Design (5.5 Section A)**

1. Name of customer

2. Mix designed in RMC lab/NABL accredited lab

3. Date of mix design

4. Mix code, if any

5. Details of ingredients

a. Grade of concrete :

b. Specified workability at pour site :

c. Maximum size of aggregate :

d. Exposure class of IS 456, if specified :

e. Minimum cementitious content, if specified :

**TABLE 9: Production and Control of Final Product (6.4 of Section A)**

|  |  |  |  |
| --- | --- | --- | --- |
| *Sl.*  *No.* | *Name of Material/Test* | *Frequency of testing* | *Relevant IS*  *Standard* |
| 1. | Fine Aggregate:  a) Determination of  Moisture content  b) Water absorption | a) Moisture content on daily basis; twice in day during monsoon  b) Weekly or change in source | IS 2386 (Part 3) |
| 2. | Coarse aggregate  a) Determination of  Moisture content  b) Water absorption | a) Moisture content on daily basis; twice in day during monsoon  b) Weekly or change in source | IS 2386 (Part 3) |
| 3. | Fresh Concrete  a) Sampling  (IS 4926 procedure)  b) Slump test  c) Density of fresh concrete  d) Placing Temperature of the concrete # | 1. Sampling: At least one sample for every 50 m3 of production or every 50 batches whichever is of greater frequency 2. At least one sample for every 50 m3 of production or every 50 batches whichever is of greater frequency   c) At least once in a day  d) At least one sample for every 50 m3 of production or every 50 batches whichever is of greater frequency | a) IS 4926  b) IS 1199  c) IS 1199  d) IS 1199 |
| 4 | Hardened concrete  a) Compressive strength\*  b) Density  c) Flexural Strength# | a) At least one sample for every 50 m3  b) Production or every 50 batches whichever is of greater frequency \*  c) When asked for | IS 516 |

# Optional test

\* One sample involves casting of 3 specimens of 150x150x150mm size, to be tested at 28 days.

Additionally, samples shall be cast for testing at earlier or later ages (3, 7, 56, 90 days), depending upon

the agreement between the producer and the customer.

**Table 10: Control on Process Control Equipments and Frequency of Inspection and Calibration** **(7.3 of Section A)**

|  |  |  |
| --- | --- | --- |
| Items | Check for | Frequency |
| Cementitious materials | Visual Inspection for weather-tightness and leaks | Weekly |
| Aggregate stockpile | Visual Inspection for segregation and contamination | Daily |
| Conveyor belts and rollers | Visual Inspection for wear and alignment | Weekly |
| Central mixer | Visual Inspection of blades and built up | Daily |
| Trucks | Visual Inspection of blades and built up | Weekly |
| Scale calibration for all weighing  and measuring equipment | 1.Mechanical/knife edge systems  2.Electrical/ load cell systems | Monthly  Monthly |
| Water meters | Calibration | Monthly |
| Admixture dispensers | Calibration | Monthly |
| Gear boxes and oil baths | Oil change | Quarterly |

**Table 11 Tolerances in Measurement of different Constituent Materials**

**(7.3 of Section A)**

|  |  |  |
| --- | --- | --- |
| Constituent materials | Tolerances  (% of the quantity of the constituent material being measured) | Indian  Standard |
| Cement | ± 2% | IS 4926:2003 |
| Water | ± 3% | IS 4926:2003 |
| Aggregates | ± 3% | IS 4926:2003 |
| Mineral admixtures | ± 2% | IS 4926:2003 |
| Chemical admixtures | ± 3% | IS 4926:2003 |
| Moisture |  | IS 386 |

Date :

Prepared by :

Date :

Reviewed by :

Informed to client :

**UNDERTAKING (to be taken on the organization’s Letterhead)**

On behalf of M/s.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, I/we do hereby declare that –

(\* Strike whatever is not applicable)

(1)\* We have so far not been an applicant/certified under this Scheme with or by any other certification body,

(2)\* We have been an applicant/certified under this Scheme with / by M/s. (Name of the CB)

In response to the requirements of (2) above, we furnish the following details -

1. Previous evaluation reports.
2. Valid Copy of the certificate granted.

We undertake to agree to the views of M/s. TUV India Pvt. Ltd. (TUVI) regarding the verification of the information provided through the audit reports. Further, we do not have any objection in case TUVI requires contacting the earlier certification body for verification of the information provided.

Further to the above, we also declare that there are neither any judicial proceedings nor any proceedings by any Regulatory body relating to our operations. Also, there have been no suspension/cancellation/withdrawal of any certification/approvals under any Regulations or otherwise.

The information provided above is true to the best of our knowledge. We agree that TUVI reserves the right to consider this declaration as void in case of any findings otherwise to the ones stated above.

Sd/-