



EQUALITAS SYSTEMCERT PVT. LTD.

QUOTATION REQUEST FORM- RMCPCS

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	Name		
		Telephone		
	• QC personnel	Name		
		Telephone		
	• Liaison personnel	Name		
		Telephone		
Material Testing Facilities		Location and address		
		Name of lab in-charge		
		Telephone		
Statutory Permissions*		1. Certificate from Pollution Control Board		
		Yes <input type="checkbox"/>	No <input type="checkbox"/>	N.A. <input type="checkbox"/>
		Expiry date:		
		2. Approval from factory inspector		
		Yes <input type="checkbox"/>	No <input type="checkbox"/>	N.A. <input type="checkbox"/>
		Expiry date:		
		3. Approval from Local Authorities (Municipal/Corporation/other)		
		Yes <input type="checkbox"/>	No <input type="checkbox"/>	N.A. <input type="checkbox"/>
		Expiry date:		

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



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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, m ³ /hour	
Type of Mixer*	Rotating-drum type <input type="checkbox"/> Power mixer <input type="checkbox"/> Planetary Mixer <input type="checkbox"/> Pan type <input type="checkbox"/> Pan-type with agitator <input type="checkbox"/> Single shaft <input type="checkbox"/> Twin shaft <input type="checkbox"/>
Mixer batch size, m ³	
Storage Capacity	
Cement, tonnes	
Fly ash, tonnes	
Slag, tonnes	
Other cementitious material, tonnes	
Coarse aggregates, tonnes or m ³ 10-mm 20-mm 40-mm	
Fine aggregates, tonnes or m ³ River sand Manufactured sand	
Crusher fines, tonnes or m ³	
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 (v) in appropriate box. **Add extra sheets if essential



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

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

* Tick (V) in appropriate box. If materials/ provisions not used, keep the boxes blank.



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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 of units	no.	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
						<input type="checkbox"/>	<input type="checkbox"/>
2. *	Compressive strength of concrete (IS 516)	Compression Testing Machine with minimum 2000 kN capacity, conforming to IS 14858 *	One no.		Yearly IS 516	<input type="checkbox"/>	<input type="checkbox"/>
3.	Preparing concrete test specimens (IS 1199)	Cube moulds of size: <ul style="list-style-type: none"> • 150 mm x 150 mm x 150 mm • 100 mm x 100 mm x 100 mm 	30 nos.		Yearly IS 10086	<input type="checkbox"/>	<input type="checkbox"/>
4.	Sieve analysis of fine and coarse aggregates (IS 2386- Part I)	IS Test sieves for fine and coarse aggregates <ul style="list-style-type: none"> • 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	<input type="checkbox"/>	<input type="checkbox"/>
5. #	Sampling of aggregates # (IS 2430)	Sieve shaker for fine aggregates #	One		Yearly	<input type="checkbox"/>	<input type="checkbox"/>
		Sample divider for sampling of aggregates #	One		Yearly	<input type="checkbox"/>	<input type="checkbox"/>
6.	Unit weight of concrete (IS 1199)	Bulk density pot for fresh concrete (10 lit)	one no.		Yearly IS 2386–Part III	<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>
8.	Silt content of sand	Graduated glass cylinder (500 ml) for determining silt content	one no.		-	<input type="checkbox"/>	<input type="checkbox"/>
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	<input type="checkbox"/>	<input type="checkbox"/>



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(Continued from previous page))						
10.	Other accessories	Electronic weighing balance of adequate capacity with accuracy of 1 g.	One	Yearly	<input type="checkbox"/>	<input type="checkbox"/>
		Laboratory mixer (min 50 lit)	One	Man. specified	<input type="checkbox"/>	<input type="checkbox"/>
		Electric microwave oven (IS 11332)	One	Yearly IS 6365	<input type="checkbox"/>	<input type="checkbox"/>
		Concrete compaction equipments (Table vibrator / needle vibrator, tamping rods)	One	Yearly	<input type="checkbox"/>	<input type="checkbox"/>
		Curing tank with provision to maintain 27±2° C temperature of water	One	-	<input type="checkbox"/>	<input type="checkbox"/>
		Shovels, trowels, flexible spatulas, meter, etc.	Sufficient nos.	-	<input type="checkbox"/>	<input type="checkbox"/>

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.



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

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

Sr No.	Type Ingredient	of	Source and brand name (if any)	Supplier' address	name and	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	<ul style="list-style-type: none"> Delivery Documents Manufacturer's test certificate for physical and chemical properties 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Delivery Documents Manufacturer's test certificate on physical and chemical properties Uniformity requirements as per relevant IS codes 	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Delivery documents 	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> For non-mains water: Initially every week for first six weeks and then at 3-monthly internal For mains water: Annual basis Once



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				all tests for Source are satisfactory
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Sl. No	Material	Verification	Scope	Frequency
4.	Chemical admixtures	<ul style="list-style-type: none"> Delivery Documents Manufacturer's test certificate for physical and chemical properties, uniformity requirements and compatibility 	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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.



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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 <ul style="list-style-type: none"> • Uncrushed • Crushed Coarse aggregate <ul style="list-style-type: none"> • Uncrushed • Crushed 	Weekly	IS 383-1970
2.	Particle density <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Loose • Compacted 	Both fine and coarse aggregates	6 Monthly	IS 2386 (Part 3)
5.	Particles finer than 75 μ m	Fine aggregate- <ul style="list-style-type: none"> • 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	IS 2386 (Part 4)



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			change in source	
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)



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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/mm ²					
Minimum cement content, kg/m ³ (if specified)					
Mineral additives, kg/m ³ (if specified) <ul style="list-style-type: none"> 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 SO ₃ 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 (m ³)					
Source: Adapted from IS 4926					



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

<ol style="list-style-type: none">1. Name of customer2. Mix designed in RMC lab / NABL accredited lab3. Date of mix design4. Mix code, if any5. Details of ingredients<ol style="list-style-type: none">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 :



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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 #	a) Sampling: At least one sample for every 50 m ³ of production or every 50 batches whichever is of greater frequency b) At least one sample for every 50 m ³ 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 m ³ 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 m ³ 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.



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

<i>Items</i>	<i>Check for</i>	<i>Frequency</i>
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)

<i>Constituent materials</i>	<i>Tolerances (% of the quantity of the constituent material being measured)</i>	<i>Indian Standard</i>
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 2386



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Annexure 01 RMC Review Checklist (To be filled by QRF Reviewer)

Table	Comment/ Finding	Doc. Reference (if any)
Table 1: General Information of Ready Mixed Concrete Facility (3.1.1 of Section A)		
Table 2: General Information on Concrete Production Facilities (3.1.1 of Section A)		
Table 3: General Information on Material Handling (3.1.1 of Section A)		
Table 4: List of Minimum Testing Equipment for Laboratory attached to RMC Facility (3.3 of Section A)		
Table 5: List of Sources of Incoming Approved Materials (4.2 of Section A)		
Table 6-A: Verification and Testing Frequency of Cement, SCMs, Water and Chemical Admixtures (4.3.8 of Section A)		
TABLE 6-B: Verification and Testing Frequency for Aggregates (4.3.8 of Section A)		
Table 7: Concrete mix information to be supplied by the purchaser (5.4 of Section A)		
Table 8: Format for Mix Design (5.5 Section A)		
TABLE 9: Production and Control of Final Product (6.4 of Section A)		
Table 10: Control on Process Control Equipments and Frequency of Inspection and Calibration (7.3 of Section A)		
Table 11 Tolerances in Measurement of different Constituent Materials (7.3 of Section A)		
Reviewer Comments:.....		
Reviewer Final Conclusion: Ready for Onsite audit <input type="checkbox"/> Yes <input type="checkbox"/> No		
Reviewer :		Date:



EQUALITAS SYSTEMCERT PVT. LTD. QUOTATION REQUEST FORM- RMCPCS

(For The Use Of Equalitas Systemcert Private Limited (ESCPL) Only)

ESCPL Comments:.....

.....

Can this Application be further processed and ready for Onsite audit ☐ Yes ☐ No

(if No, Details of COI condition).....

Note: Application review will be done within 7 day of receipt of application and the applicant RMC Plant will be informed about adequacy or deficiencies observed within but before expiry of 7 day.

Reviewed By :

Date: