CIDCO

City & Industrial Development Corporation Development Corporation Ltd.

Superintending Engineer (Quality Control)

5th floor, Raigad Bhavan, CBD Belapur, Navi Mumbai- 400614

Phone - Email: se.qc@cidcoindia.com

CIDCO/SE(QC)/2022/SS/E-149489 Date : 14.09.2022

CIRCULAR

Sub: Revision in rates of testing charges (w.e.f. 15.09.2022) at CIDCO Material Testing Laboratory at Sanpada Railway Station, Navi Mumbai.

The schedule of Testing Charges, effective from 15th September 2022, for various materials to be tested at CIDCO Material Testing Laboratory at Sanpada Railway Station is enclosed herewith.

All SE's / EE's are requested to take a note of the revised rates and inform the same to the contractor's with directions to follow the procedure given in the notes accompanying with this circular.

Further, the proposals requesting for Mix Designs should be submitted with necessary information as per standard checklist, enclosed as "**Annexure A**" herewith.

This is issued as approved by competent authority.

Encl: As mentioned above.

Rokade 14.09.2022

SE (QC)

(S. G. Rokade / 22783)

To,

All SE's – SE ( )

All EE's – EE ( )

Cc to: CE (NM) / CE (NMIA) / CE (SP) / ACE (I & Metro) / ACE (II) / ACE (III)

Cc to : CAO / Sr.A.O. (P) / Finance – For Information please.

Cc to : Manager (System) – Request to upload this circular on intranet.

Cc to : PRO – Request to upload this circular on Corporation's website.

Cc to : EE (QC) – Request to upload this circular on Laboratory portal.

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TESTING CHARGES W.E.F 15.09.2022

Sr. No.	Materials / Name of Test	Applicable Materials	Test Method	Approx. Quantity of Sample	Rate (Rs.)
(A)	**Soil / Murum Testing**				
1	Proctor Density Test - Heavy / Light (M.D.D. - O.M.C.)	Soil / Murum / Subgrade / Reclamation work	IS 2720 (Part 8) : 1983 (RA 2020) / IS 2720 (Part 7) : 1980 (RA 2021)	50 kgs	1,975.00
2	Liquid Limit, Plasticity Index etc		IS 2720 (Part 5) : 1985 (RA 2020)	1 Kg	1,250.00
3	Field density (Sand Replacement Method)		IS 2720 (Part 28) : 1974 (RA 2020)	1 point on field	1,200.00
4	Field density (Core Cutter Method)		IS 2720 (Part 29) : 1975 (RA 2020)	1 point on field	1,200.00
5	Grain Size Analysis		IS 2720 (Part 4) : 1985 (RA 2020)	10 kgs	725.00
6	Lab CBR test		IS 2720 (Part 31) : 1990 (RA 2020)	80 kgs	7,275.00
7	Free Swell Index		IS 2720 (Part 40) : 1977 (RA 2021)	1 Kg	975.00
(B)	**Cement / Flyash Testing**				
8	Standard Consistency, Fineness, Initial & Final Setting Time, Compressive Strength, Specific Gravity	OPC / PPC / PSC / Flyash / GGBFS	IS 4031 (Part 2, 3, 4, 5 & 6)	10 kgs	3,975.00
(C)	**Coarse Aggregate / Metal Testing**				
9	Flakiness Index, Elongation Index & Combined Index	Aggregate of size	IS 2386 (Part 1) : 1963 (RA 2016)	40 kgs	900.00
10	Gradation		IS 2386 (Part 1) : 1963 (RA 2016)	20 kgs	725.00

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Sr. No.	Materials / Name of Test	Applicable Materials	Test Method	Approx. Quantity of Sample	Rate (Rs.)
11	Abrasion value	10mm (M1), 20mm (M2), 40mm (M3), 60mm (M4), GSB (Gr. I, Gr II, Gr III), WMM	IS 2386 (Part 4) : 1963 (RA 2021)	10 kgs	1,250.00
12	Impact value		IS 2386 (Part 4) : 1963 (RA 2021)	10 kgs	610.00
13	Water Absorption		IS 2386 (Part 3) : 1963 (RA 2021)	1 kg	690.00
14	Specific Gravity		IS 2386 (Part 3) : 1963 (RA 2021)	1 kg	450.00
15	Bulk Density		IS 2386 (Part 3) : 1963 (RA 2021)	1 kg	320.00
16	Crushing Value		IS 2386 (Part 4) : 1963 (RA 2021)	10 kgs	740.00
(D)	**Fine Aggregate / Sand Testing**				
17	Fineness Modulus / Sieve Analysis	Crushed Sand, M Sand, River Sand etc	IS 2386 (Part 1) : 1963 (RA 2016)	10 kgs	1,450.00
18	Silt Content				
19	Moisture Content Test		IS 2386 (Part 3) : 1963 (RA 2021)		690.00
20	Specific Gravity		IS 2386 (Part 3) : 1963 (RA 2021)		450.00
(E)	**Concrete Testing**				
21	Compressive Strength Test (Cube)		IS 516 (Part 1/Sec 1) : 2021	1 set of 3 Nos of 150mm cubes	725.00
22	Compressive Strength Test by Accelerated curing (Cube)			1 set of 3 Nos of 150mm cubes	2,050.00

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Sr. No.	Materials / Name of Test	Applicable Materials	Test Method	Approx. Quantity of Sample	Rate (Rs.)
23	N.D.T. - U.S.P.V. Test (For 1 Points)		IS 516 (Part 5/Sec 1) : 2018	1 point on field	400.00
24	Depth of Water Penetration under pressure Test		IS 516 (Part 2/Sec 1) : 2021	1 set of 3 Nos of 150mm cubes	4,875.00
25	Rapid Chloride Penetration Test		ASTM C1202 – 12 / AASHTO T 259	1 set of 3 Nos of cylinders	6,500.00
26	Flexural Strength of beam		IS 516 (Part 1/Sec 1) : 2021	1 set of 3 Nos of 700mm long beam	800.00
27	Split Tensile Strength of Concrete cubes / Cylinder		IS 516 (Part 1/Sec 1) : 2021	1 set of 3 Nos of cubes / cylinder	4,000.00
28	Modulus of Elasticity of Concrete		IS 516 (Part 8/Sec 1) : 2020	1 set of 3 Nos of 150mm cubes	5,500.00
29	Taking of Core Samples				3,025.00
30	Concrete Mix design including ingredient Test				-
	i) Ordinary & High strength Mix Design (IS 10262 : 2019 or MoRTH Cl. 1700)		IS 10262 : 2019 / MoRTH 2013	50 kgs of each ingredient per Mix Design	14,450.00
	ii) For Self Compacting Concrete (IS 10262 : 2019)		IS 10262 : 2019		15,200.00
	iii) Concrete for PQC as per IRC 044 : 2017		IRC 044 : 2017		16,100.00

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Sr. No.	Materials / Name of Test	Applicable Materials	Test Method	Approx. Quantity of Sample	Rate (Rs.)
	iv) Concrete for Dry Lean Concrete (DLC) as per IRC SP 49 : 2014		IRC SP 49 : 2014		16,500.00
(F)	**Steel Testing**				
31	Weight Variation, Ultimate Tensile Strength, % Elongation, Bend - Rebend Test & 0.2% Proof Stress			3 Nos of bars (each 1.00m long) per sample per dia	
a)	For bars upto 16mm dia		IS 1599 : 2019 & IS 1608 (PART 1): 2018 & IS 1786: 2008		1,350.00
b)	For bars of 16mm to 32mm dia				1,675.00
(G)	**Brick Testing**				
32	Water Absorption Test, Compressive Strength Test		IS 3495 : (Part 1 & 2) : 2019	15 Nos	2,300.00
(H)	**Concrete Block Testing**				
33	Water Absorption Test, Compressive Strength Test				
i)	**Solid / Hollow Concrete Blocks (For set of 11 Blocks)**		IS 2185 (PART 1 & 2): 2005	11 Nos	2,075.00
34	Water Absorption, Compressive Strength & Density				
ii)	**Autoclaved Cellular Concrete Blocks (For Set of 11 Blocks)**		IS 6441 : (Part 1 & 5) : 1972	11 Nos	2,075.00
iii)	**Autoclaved Cellular Concrete Blocks (For Set of 36 Blocks)**			36 Nos	2,300.00

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TESTING CHARGES W.E.F 15.09.2022

Sr. No.	Materials / Name of Test	Applicable Materials	Test Method	Approx. Quantity of Sample	Rate (Rs.)
(I)	**Paver Block Testing**				
35	Water Absorption Test, Compressive Strength Test		IS 15658: 2021	15 Nos	2,625.00
(J)	**Masonary Mortar**				
36	Compressive Strength Test (Cube)	Polymer Mortar, Joint Filling Mortar, Micro Concrete, Macro Concrete, Masonry Mortar, Plaster Mortar	IS 2250 : 1981	1 set of 3 Nos of 70mm cubes	725.00
(K)	**Rock - Rubble / Stone**				
37	Water Absorption, Porosity & Specific Gravity	Rock, Rubble, Soling	IS 1124 : 1974	5 Kgs	2,125.00
(L)	**Test for Bitumen / Asphalt**				
38	Bitumen Extraction			3Kgs	1,675.00
39	Extraction & Sieve Analysis		IS 2386 (Part 1) : 1963	3 Kgs	4,150.00
40	Penetration / Grade of Bitumen		IS 1203 : 1978	1 lts	1,025.00
41	Softening Point Test		IS 1205 : 1978		1,100.00
42	Flash & Fire Point Test		IS 1209 : 1979		1,275.00

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Sr. No.	Materials / Name of Test	Applicable Materials	Test Method	Approx. Quantity of Sample	Rate (Rs.)
43	Ductility Test		IS 1208 : 1978	1 lts	975.00
44	Marshall Stability & Flow		MS - 2, Asphalt Institute	5 Kgs	1,175.00
45	Density of Bituminous Core (Core Cutting excluded)			1 Core Sample	675.00
46	Job Mix Design for GSB / WMM		MoRTH 2013	50 kgs of each ingredient per Mix Design	17,075.00
47	Job Mix Design for AC / DBM / BM		MoRTH 2013		17,075.00
(M)	**G. I. Pipe Testing**				
48	Weight & Thickness Variation	Binding Wire, GI Pipe, CI Pipe etc		1m long pipe per sample	300.00
(N)	**Ceramic / Vitrified Tile Testing**				
49	Water Absorption Test (Set of 6 tiles)		IS 13630 : Part 2 : 2019	6 Nos	825.00
50	Modulus of Rupture Test (Set of 6 tiles)		IS 13630 : Part 6 : 2019	6 Nos	1,800.00
51	Dimension Test		IS 13630 : Part 1 : 2019	10 Nos	300.00
(O)	**Water Testing**				
52	pH Value, Chloride & Sulphite Content		IS 3025 (Part 11, 24 & 32)	1 lts	1,175.00
(P)	**Plasticiser / Admixture Testing**				
53	pH Value, Relative Density			1 Lts	500.00

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TESTING CHARGES W.E.F 15.09.2022

NOTES :

A. **General**:

1. All the rates mentioned above are excluding GST. GST shall be charged separately as applicable at the time of payment.
2. Sample without any defects shall be carefully brought & unloaded at Lab by the contractor.
3. The samples sent for testing shall bear identification marks in accordance with provisions prescribed in relevant Indian Standards. It is suggested to avoid mentioning the name of agency on samples.
4. Contractors have to make to & fro arrangement, free of cost, for the transportation of equipment & staff for conducting field tests.
5. Core Samples to be tested at CIDCO Laboratory shall be cut for smooth finish and any irregularity over the surface shall be removed, before submitting the sample to Laboratory.
6. In-adequate quantity of sample will not be accepted irrespective of payment of full testing fees or in case of non-payment of penalties.
7. The amount paid will be forfeited, in case of submission of inadequate quantity of samples or in case of part/non-payment testing fees/penalties.
8. **Witnessing the Testing at Laboratory**:

   The contractors are hereby informed to visit the laboratory for witnessing the testing only after obtaining prior appointment (while submitting the sample) from laboratory staff.
9. **Delay in submission of samples**

   a. Concrete cubes submitted to the laboratory for testing the compressive strength at 7 days, 14 days & 28 days, care should be taken to submit cubes well before 10th, 18th & 33rd day respectively, from Date of Casting or else concrete cubes for compressive strength shall not be accepted.

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TESTING CHARGES W.E.F 15.09.2022

b. For all other materials, samples for testing shall be submitted with 2 working days from date of making payment. In case of any delay beyond 2 working days, a penalty would be recovered at the rate of Rs. 500/- per day (maximum upto Rs. 5000/-) from the contractor's next Payment Certificate by the nodal Engineers.

c. No sample shall be accepted by the laboratory beyond 14th day from date of making payment.

B. **Concrete Cube Samples**

1. The samples taken for cubes and beams shall be sent to lab at least a days before the actual date of testing.
2. The grade of concrete, date of casting, specimen number, C.A. No., name of division etc. or any other details should be engraved in legible manner on concrete cubes. If these details are marked by paint, samples will not be accepted.
3. It is suggested to avoid engraving the name of agency on concrete cubes.

C. **Cement samples**

1. Cement samples should be submitted in sealed airtight container / full bag (closed), one opening on top not less than 10cm. in diameter.

D. **Reinforcement Steel Samples**

1. The steel samples for tensile testing of reinforcing bars, shall be straight for entire length without bends and the brand of steel embossed over bars shall be clearly visible.
2. The ends of bars shall be hack saw cut and not chisel cut.
3. One sample of each dia. bar shall be sent for first test and for retest three bars shall be sent.
4. The length of the bars shall be 100cm. for all dia. of steel bars.
5. The reinforcing steel samples shall be free of any marking, paints, chamfer cuts etc.

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TESTING CHARGES W.E.F 15.09.2022

E. **Fine & Coarse Aggregates & Murum**:

1. The quantity of sample mentioned in above table shall be strictly adhered while submitting the materials to laboratory.
2. Fine / Coarse Aggregates or Murum samples sent for testing natural moisture content shall be forwarded in wax coated packing or sealed airtight polythene bags.

F. **Field Test**:

1. The site staff shall identify the points, well in advance, where the tests are to be performed and plan the testing activities in order to complete the task in optimum possible time.

Rokade 16.09.2022

SE (QC)

(S. G. Rokade / 22783)

ANNEXURE A

CHECKLIST - INFORMATION REQUIRED FOR CONCRETE MIX PROPORTIONING

Name of Work:

C. A. No.:

Name of Agency:

Sl. No.	Data required	To be filled by RMC Supplier / Contractor	Remarks
	Status of Concrete Mix Design	New / Verification	
	Type of Concrete	Ordinary / SCC / PQC / DLC / Any other (Please specify)	
1.	Mix Design ID		
2.	Methodology adopted	IS 10262 : 2019 / Morth Cl. 1700 / IRC 44 : 2017 / IRC 112 : 2020 / IRC SP 49 : 2014	
3.	Grade of Concrete		
4.	Workability in terms of slump (mm)		Refer Cl. 7, IS 456 : 2000
5.	Retention (Transportation) time		
6.	Exposure Condition		Refer Table 3, IS 456 : 2000 OR Stipulated Bid Conditions, if any
7.	Maximum Nominal Size of Aggregate		
8.	Minimum Cement Content (if any)		Refer Table 5, IS 456 : 2000 OR Stipulated Bid Conditions, if any
9.	Maximum Water Cement Ratio (If any)		
10.	Maximum Cement Content (If any)		Refer Cl. 8.2.4.2., IS 456 : 2000
11.	Method of Placing	Manual / Pumped / _____	
12.	Degree of Control (For Std Deviation)	Good / Fair	Refer Table 8, IS 456 : 2000
13.	**Details of Cementitious Material**		
	i. Cement		
a.	Brand / Manufacturer Name		
b.	Type of Cement	OPC/ PPC/ PSC/ _____	

Sl. No.	Data required	To be filled by RMC Supplier / Contractor	Remarks
c.	Grade of Cement	33 grade /43 grade / 53 grade	
d.	Whether cement brand is approved with CIDCO?	Yes / No.	
e.	If Yes, please specify validity		
	ii. **Mineral Admixture**	Yes / No.	
a.	Type of Mineral Admixture	Flyash / GGBS / Silica fume / _____	Refer Cl. 5.2., IS 456 : 2000
b.	Brand of Mineral Admixture		
c.	Whether brand is approved with CIDCO?		
d.	If Yes, please specify validity		
e.	Maximum allowable Percentage (For Flyash, not more than 20%)		Stipulated Bid Conditions OR Refer Cl. 5.2., IS 456 : 2000 OR Table 9, IS 10262 : 2019
14	**Crystalline Durability Admixture**	Yes / No.	
a.	Brand / Product Name of CDA		
b.	Manufacturer of CDA		
c.	Whether brand / Manufacturer is approved with CIDCO?		
d.	If Yes, please specify validity		
15	**Chemical Admixture**	Yes / No.	
a.	Type of Chemical Admixture	Accelerating / Retarding / Air Entraining / Normal Superplasticizers / _____	Refer Cl. 5.5., IS 456 : 2000
b.	Brand / Product Name of Chemical Admixture		
c.	Manufacturer of Chemical Admixture		
d.	Whether brand / Manufacturer is approved with CIDCO?		
e.	If Yes, please specify validity		
f.	Maximum dose (proposed) of chemical Admixture		
g.	Whether compatible with Cement & CDA?		

Sl. No.	Data required	To be filled by RMC Supplier / Contractor	Remarks
	If Yes, please enclose compatibility test report or MTC.		
16	**Water**		
a.	Type of Water		
b.	Source of Water	Ground water / Tap water / Open Lake / Specify if other_____	
17	**Coarse Aggregate**		
a.	Type of Coarse Aggregate	Rounded / Angular	
b.	Source of Coarse Aggregate		
18	**Fine Aggregate**		
a.	Type of Fine Aggregate	Natural / Crushed /_____	
b.	Source of Fine Aggregate		
19.	**For Self Compacting Concrete Mix Design**		
a.	Slump Flow required		
b.	Passing Ability required		
c.	V Funnel Flow time required		
d.	SR Resistance required		
e.	Powder Content required		
20.	**For Pavement Quality Concrete Mix Design**		
a.	Flexural Strength required		
21.	**Any other Specific information**		

Contractor AE ( ) AEE ( ) EE ( )