

HOUSING AND BUILDING RESEARCH INSTITUTE

Chemical Testing Research Laboratory

Vat: 15%

A. Cement Analysis:

Sl. no	Description	Unit	Rate (TK)	Time Required
01.	Sample preparation	Per Sample	1000/-	15 days
02.	Determination of Oxides of ion like Silicon, Aluminium, Iron, Calcium, Sodium, Sulfur, Magnesium, Manganese, chloride, sulphate etc.	Per ion	1000/-	
03.	Alkalis as Na ₂ O, K ₂ O	Per Sample	3000/-	
04.	Total alkali	Per Sample	3000/-	
05.	C ₃ S	Per Sample	2000/-	
06.	C ₂ S	Per Sample	2000/-	
07.	C ₃ A	Per Sample	2000/-	
08.	C ₄ AF	Per Sample	2000/-	
09.	LSF	Per Sample	2000/-	
10.	Free Lime	Per Sample	2000/-	
11.	L.O.I	Per Sample	2000/-	
12.	Iron Modulus (IM)	Per Sample	2000/-	
13.	Silica Modulus (SM)	Per Sample	2000/-	
14.	Hydraulic Modulus (HM)	Per Sample	2000/-	
15.	Insoluble Residue	Per Sample	2000/-	
16.	Clinker Content	Per Sample	5000/-	
17.	Fly ash Content	Per Sample	2000/-	
18.	Gypsum Content	Per Sample	2000/-	
19.	Lime stone	Per Sample	2000/-	

B. Aggregate:

C.

01.	Sample preparation	Per Sample	1000/-	7 days
02.	Determination of Oxides of ion like Silicon, Aluminium, Iron, Calcium, Sodium, Sulfur, Magnesium, Manganese, chloride, Sulphate etc.	Per ion	1000/-	
03.	MICA	Per Sample	8000/-	
04.	Alkali Reactivity	Per Sample	5,200/-	

C. Lime:

01.	Sample preparation	Per Sample	1000/-	7 days
02.	Determination of Oxides of ion like Silicon, Aluminium, Iron, Calcium, etc.	Per ion	1000/-	

D. Brick/Sand Refractory Brick:

01.	Sample preparation	Per Sample	1000/-	7 days
02.	Determination of Water Soluble Salt.	Per Sample	2000/-	
03.	Moisture Content	Per Sample	1000/-	
04.	Loss on Ignition	Per Sample	2000/-	
05.	Determination of Oxides of ion like Silicon, Aluminum, Iron, Calcium, Sodium, Sulfur, Magnesium, Manganese, chloride, sulphate etc.	Per ion	1000/-	

E. Mortar & Concrete:

01.	Sample preparation	Per Sample	1000/-	
02.	Cement Mortar (Ingredients ratio)	Per Sample	2000/-	3 days
03.	Lime Mortar (Ingredients ratio)	Per Sample	2000/-	3 days
04.	Cement Concrete (Ingredients ratio)	Per Sample	2000/-	3 days

E. Water:

01.	Sample preparation	Per Sample	1000/-	7 days
02.	pH Value	Per Sample	1000/-	
03.	Total Suspended Matter	Per Sample	2000/-	
04.	Total Dissolved Matter	Per Sample	2000/-	
05.	Determination of Oxides of ion like Silicon, Aluminium, Iron, Calcium, Sodium, Sulfur, Magnesium, Manganese, chloride, sulphate etc.	Per ion	1000/-	
06.	Alkalinity	Per Sample	2000/-	
07.	Total Hardness	Per Sample	3000/-	

G. Paint/Paint Materials:

01.	Sample preparation	Per Sample	1000/-	15 days
02.	Volatile Matter	Per Sample	2000/-	
03.	Weight per 10 Liters	Per Sample	2000/-	
04.	Spreading Capacity	Per Sample	2000/-	
05.	Resistance to Heat	Per Sample	2000/-	
06.	Resistance to Water	Per Sample	2000/-	
07.	Resistance to Petrol (100 Octane)	Per Sample	2000/-	
08.	Residue on Sieve	Per Sample	2000/-	
09.	Resistance to Dry Rubbing	Per Sample	2000/-	
10.	Recoating Properties	Per Sample	2000/-	
11.	Wash Ability	Per Sample	2000/-	

H. Soil/Clay:

01.	Sample preparation (Sodium carbonate fusion for Al, Fe, Ca, Ma, Mn, P, Si)	Per Sample	2000/-	7 days
02.	pH Value	Per Sample	1000/-	
03.	Determination of Oxides of ion like Silicon, Aluminium, Iron, Calcium, Sodium, Sulfur, Magnesium, Manganese, chloride, sulphate etc.	Per ion	1000/-	
04.	Moisture Content	Per Sample	1,050/-	
05.	Suitability for Brick	Per Sample	5,000/-	
06.	Loss of ignition	Per Sample	3200/-	
07.	Organic Matter (qualitative).	Per Sample	3700/-	

I. Bitumen & Bituminous Materials

01.	Sample preparation	Per Sample	1000/-	15 days
02.	Bitumen / Asphalt Content	Per Sample	13000/-	
03.	Water Content	Per Sample	6800/-	
04.	Specific Gravity	Per Sample	3000/-	
05.	Ash Content/Inorganic matter	Per Sample	5700/-	
06.	Solubility in Organic Solvent (CCl ₄)	Per Sample	3000/-	
07.	Penetration test	Per Sample	3000/-	
08.	Residue by Evaporation	Per Sample	2000/-	
09.	pH Value	Per Sample	2000/-	
10.	Settlement test	Per Sample	2000/-	
11.	Cement Mixing	Per Sample	2000/-	
12.	Coating Ability and Water Resistance	Per Sample	2000/-	
13.	Freezing point	Per Sample	2000/-	
14.	Storage Stability	Per Sample	2000/-	