

Scope of Work

General Terms & Conditions

Presently, at CCL many Civil works like construction of residential quarters, other welfare buildings, construction of environment structures like DETP/ETP, STP, Industrial structures like workshop, wind screen, construction of PQC roads, bitumen roads as well as major maintenance works of quarters, maintenance of service building, are going on in different Areas of CCL.

To enhance the quality of construction and maintenance works and to strengthen the Quality Control, testing of building materials is required. The material testing will be carried out in a well-equipped testing laboratory. As such it requires contract with a laboratory so that the samples can be collected from the site and testing of the sample can be done as per IS standards in the laboratory which will ensure the utilization of proper materials at the construction site. The material testing is an important tool for the Quality Control (QC) cell of Civil Dept., CCL which reinforces the importance of quality of works by utilization of appropriate materials in the construction as per CPWD / IS provisions

The scope of the services of the hired laboratory is as follows:

1. Collection of Samples (in case of field tests only)
2. Testing of the Samples
3. Submission of report based upon the test results

Bill of Quantity

Service contract of hiring an NABL accredited laboratory for Quality Control Cell, Civil Deptt., CCL for testing of the construction materials collected during inspections for a period of 02 years						
Sl.	Description of Items	Description of the test to be conducted	Unit	Quantity	Estimated Rate per unit (Excl. GST) (₹)	Total Estimated Amount (Excl. GST) (₹)
1	Cement mortar composition	Composition test/compressive strength	Per test	10	1800.00	18,000.00
2	Aluminum Section	All the tests including anodic/powder coating	Per test	5	3900.00	19,500.00
3	Coarse Aggregates	Sieve analysis, Specific gravity, water absorption, impact value, flakiness index, elongation index, crushing strength, abrasion value, total deleterious material, bulk density	Per test	20	4250.00	85,000.00
4	Fine Aggregates	Specific Gravity, Water absorption, Sieve analysis, bulking of sand, bulk density, deleterious materials, Silt & Clay content	Per test	20	3250.00	65,000.00
5	Cement	Physical and Chemical Analysis	Per test	10	4200.00	42,000.00
6	Brick Test	Compressive strength, water absorption, dimension, efflorescence	Per test	20	1850.00	37,000.00
7	Tor Steel	Physical Analysis - Ultimate Tensile Strength, Elongation, Mass per meter run, 0.2% Proof Stress/Yield stress, Bend test, Rebend test, Chemical Analysis	Per test	25	1250.00	3,1250.00
8	Bitumen Content Test	Bitumen/Binder Content Test as per IS 5317	Per test	5	1200.00	6,000.00

9	Bitumen Core Cutting , Density Testing	Bitumen Core Cutting Density Test as per MORT&H (at site)	Per core	10	1650.00	16,500.00
10	PQC road Core Cutting Density Test	PQC road core cutting test as per IS 516 and MORT&H (at site)	Per core	50	3000.00	1,50,000.00
11	Vitrified Tiles Testing	As per IS 15622	Per test	5	4800.00	24,000.00
12	Ceramic Tiles Testing	As per IS 15672	Per test	5	3400.00	17,000.00
13	Concrete Cube	Concrete Cube compressive strength	Per test	5	600.00	3,000.00
14	Paver Block Testing	Compressive strength, water absorption, dimension, abrasion test, flexural test as per IS 15658	Per test	10	2610.00	26,100.00
15	Granular Sub Base	Testing of GSB as per MORT&H and IRC	Per test	1	6200.00	6,200.00
16	Dowel Bars	Testing of Dowel bars as per MORT&H and IRC	Per test	1	3150.00	3,150.00
17	Rebound Hammer Test	As per IS 13311 - Part 2	Per point	70	175.00	12,250.00
18	GI Pipe	As per IS 1239	Per pipe	5	3250.00	16,250.00
19	Material Collection and Seal	For the test samples which would be collected by the Dept. and handed over to the Service provider for testing	Per Specimen	147	25.00	3,675.00
20	Conveyance charge for field visit	For all tests that would be conducted by the Service provider on site (incl. of all components required for sample collection from field) for field visit (60 field tests x 200 km to and fro at the site)	Km	12000	16.00	1,92,000.00
					Sub. Total Amount (Excl. GST) (₹):	₹ 7,73,875.00
					GST @18 % :	₹ 1,39,297.50
					Grand Total Amount (incl. GST) (₹):	₹ 9,13,172.50

- Rates quoted by bidder shall be the rates to be paid for each test category (Column 2 of above table) during execution of the work.
- Rate quoted by bidder for each items shall be inclusive of all components that are required for the execution of that particular tests. No extra rates shall be demanded by contractor for each item test except as filled in the Price Bid/ BoQ.

Documents required to be uploaded by bidder online are:-

1.	NABL accreditations	Bidder has to upload following two certificates:- 1. Certificate of NABL accreditation for laboratory. 2. Certificate of NABL accreditation for calibration of Laboratory equipment's.
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Additional Terms & Conditions: -

1. The bidder should be Ranchi based i.e. laboratory should be located in Ranchi or nearby Ranchi.
2. There should be existence of Physical Laboratory with NABL accreditation for laboratory as well as Certificate of NABL accreditation for calibration of Laboratory equipment's.
3. All test shall be carried out as per the prescribed IS guidelines or other relevant guidelines.
4. Payment shall be done quarterly based on the actual execution of quantities.