



Defence Housing Authority Quetta

Airport Road Quetta Cantonment

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1st September 2023

DHA Quetta Commercial Lab Tests Price List

Ser	Test Name	Specification	Unit	Rate
Soil Lab				
1	Sample collection (any)	AASHTO T-2	Rs.	2,500.0
2	Sieve Analysis (Dry & wash)	ASTM C-136	Rs.	2,000.0
3	Plasticity Index	AASHTO T-89 T-90	Rs.	3,500.0
4	Moisture Content (Lab)	AAHTO T-265	Rs.	800.0
5	Standard Proctor	AASHTO T-99	Rs.	3,500.0
6	Modified Proctor	AASHTO T-180	Rs.	4,000.0
7	California Bearing Ratio (CBR)	AASHTO T-193	Rs.	9,000.0
8	Field Density Test without transportation	AASHTO T-191	Rs.	3,000.0
9	Hydrometer Analysis	ASTM D-422	Rs.	6,500.0
10	Specific Gravity of Soil	AASHTO T-100	Rs.	2,000.0
11	Specific Gravity of Aggregates	AASHTO T-84 T-85	Rs.	2,000.0
12	Classification of Soil	AASHTO M-145	Rs.	6,000.0
13	Finesse Modulus of Sand	ASTM C-33	Rs.	2,000.0
14	Blending of Aggregates	ASTM C-33	Rs.	7,000.0
15	Shrinkage Limit of Soil	AASHTO T-92	Rs.	3,000.0
16	Sand Equivalent	AASHTO T-176	Rs.	400.0
17	Unit weight & cone calibration of FDT equipment	AASHTO T-191	Rs.	2,500.0
18	Clay Lumps & Friable particles	AASHTO T-112	Rs.	4,000.0
19	Organic impurities of soil & rock	AASHTO T-21	Rs.	4,000.0
20	Unconfined Compressive strength of rock	ASTM C-39	Rs.	14,000.0
21	Bulk density of soil & rock	AASHTO T-19	Rs.	1,000.0
22	Unconfined Test		Rs.	2,000.0
23	Direct Share Test of Soil	AASHTO T-236	Rs.	4,500.0
24	Aggregate Crushing Value	ASTM D-5821	Rs.	2,000.0
25	DRILLING OF BOREHOLES by PERCUSSION Boring Method Drilling of 02 boreholes: Performance of Standard Penetration Test (SPT) @ every 1.5m interval until rock is encountered. Collection of Disturbed/undisturbed samples, Lab testing, report writing with recommendation for foundation design. (Tax excluded)	ASTM D-1586	Rs.	6,500.0
	Mobilization & Demobilization of equipment & personnel.		Rs.	50,000.0
26	Plate Load test	ASTM D-1194	Rs.	70,000.0
27	Field California Bearing Ration (FCBR) (loading & unloading arrangement on client)	ASTM D-4429	Rs.	15,000.0
28	Relative density of soil	ASTM D-4253 D-4254	Rs.	4,000.0
Transportation Lab				
29	Asphalt Job Mix Formula (JMF) for Base Course	MS-2 6th or Latest edition	Rs.	90,000.0
30	Asphalt Job Mix Formula (JMF) for Wearing Course	MS-2 6th or Latest edition	Rs.	90,000.0
31	Loss Angles Abrasion (500 Rev)	ASTM C-131	Rs.	2,000.0
32	Loss Angles Abrasion (1000 Rev)	ASTM C-535	Rs.	2,000.0
33	Aggregate Impact Value	ASTM D-5874	Rs.	2,000.0



34	Soundness of aggregate using NA ² SO ⁴	AASHTO T-104	Rs.	8,000.0
35	Flakiness & Elongation Index	ASTM D-4791, BS 812-105-2	Rs.	2,500.0
36	Bitumen Coating and Stripping of Aggregate	ASTM D-1664	Rs.	2,000.0
37	Unit weight aggregate	ASTM C-29	Rs.	2,500.0
38	Bitumen Penetration Test	AASHTO T-49	Rs.	2,000.0
39	Specific Gravity of Bitumen	AASHTO T-228	Rs.	2,000.0
40	Softening point of Bitumen	AASHTO T-53	Rs.	2,000.0
41	Bitumen Flash & Fire point	AASHTO T-48	Rs.	2,000.0
42	Ductility of bitumen	AASHTO T-51	Rs.	2,000.0
43	Viscosity of Bitumen	AASHTO T-72	Rs.	2,500.0
44	Bitumen Extraction	AASHTO T-164	Rs.	7,000.0
45	Compaction of Asphalt cores (3 samples)	AASHTO T-230, ASTM D-2950	Rs.	5,000.0
46	Stability & Flow	AASHTO T-245	Rs.	9,000.0
47	Maximum Theoretical Specific Gravity (Gmm)	AASHTO T-209	Rs.	5,000.0
48	Gmb (Bulk Specific Gravity) per core	AASHTO T-166	Rs.	1,000.0
49	Rolling Thin film Oven (RTFO) of Bitumen (Loss on heating)	ASTM D-2872	Rs.	3,000.0

Concrete Lab

50	Concrete Mix Design	ACI 211.1-91	Rs.	23,000.0
51	Plant Trial Mix		Rs.	23,000.0
52	Slump & Temperature test	ASTM C-143 C-1064	Rs.	1,000.0
53	Density of fresh & hard concrete	ASTM C-138	Rs.	2,000.0
54	Concrete Bleeding Test	AASHTO T-158, ASTM C-232	Rs.	1,000.0
55	Soundness of cement	ASTM C-151, BS EN 196	Rs.	1,000.0
56	Finesse of cement	ASTM C-204, C-115, C-430	Rs.	1,000.0
57	Setting Time of cement initial & final	AASHTO T-154	Rs.	1,000.0
58	Consistency of cement	AASHTO T-162	Rs.	1,000.0
59	Compressive strength of cement 3, 7 & 28 days	AASHTO T-106	Rs.	5,000.0
60	Compressive strength of concrete per cube	BS 1881-116	Rs.	500.0
61	Compressive strength of concrete per cylinders without capping	ASTM C-39	Rs.	1,000.0
62	Compressive strength of concrete per cylinders with capping	ASTM C-39	Rs.	1,000.0
63	Concrete Core extraction without transportation	ASTM C-42	Rs.	4,000.0
64	Compressive strength of concrete core with capping	ASTM C-42	Rs.	2,000.0
65	Compressive strength of regular shape paving block/Pavers	BS 6717	Rs.	1,000.0
66	Compressive strength of irregular shape paving block/Pavers	BS 6717	Rs.	1,200.0
67	Compressive strength of concrete masonry block	ASTM C-90 C-140	Rs.	800.0
68	Compressive strength of Per cast concrete kerb block coring & cutting	ASTM C-90 C-140	Rs.	5,000.0
69	Compressive strength of bricks	AASHTO T-32 ASTM C-67	Rs.	800.0
70	Water absorption of bricks	AASHTO T-32 ASTM C-67	Rs.	1,000.0
71	Efflorescence of bricks	AASHTO T-32 ASTM C-67	Rs.	1,000.0
72	Schmidt Hammer per 10 knocks	ASTM C-805, BS 1881-202	Rs.	10,000.0



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73	Tensile strength of steel bars up to 1-inch dia per piece	ASTM A-615, A-706	Rs.	900.0
74	Tensile strength of steel bars over 1-inch dia per piece	ASTM A-615, A-706	Rs.	2,000.0
75	Bend Test up to 1-inch dia per piece	ASTM A-615, A-706	Rs.	500.0
76	Bend Test over 1-inch dia per piece	ASTM A-615, A-706	Rs.	900.0
77	Weight & Guage of steel bar per piece	ASTM A-615, A-706	Rs.	350.0
78	High Strength Tensile Test (Pre stress strands) per piece	ASTM A-416	Rs.	4,000.0
79	Three Edge Bearing of RCC pipes up to 1ft Dia	ASTM C-76 & BS 5911	Rs.	9,000.0
80	Three Edge Bearing of RCC pipes above 1ft Dia	ASTM C-76 & BS 5911	Rs.	15,000.0

Water Lab

81	pH Value	-	Rs.	600.0
82	TDS	-	Rs.	1,000.0
83	Alkalinity	-	Rs.	1,000.0
84	Chloride content	-	Rs.	1,000.0
85	Sulphate content	-	Rs.	2,000.0
86	Color	-	Rs.	500.0

Note:

- Fee for any test (Special Test) other than listed above will be decided by the undersigned considering the quantum of work to be done.
- In case samples are to be tested in the presence of the clients at a specified time, additional 25% of routine fee will be charged as witness fee.
- In case test is to be performed on urgent basis, fee for the test shall be doubled.
- The above rates may change any time without notice.

