

3. Maharaja Ranjit Singh Punjab Technical University, Bathinda.

Details of Nodal Officer Nominated as a Person of Contact:- Dr. Manjeet Bansal Dean Consultancy & Industry linkage MRSPTU Bathinda, Punjab

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Link of webpage of the Testing facility:

S.No.	Facility provided	
1	Crushing Strength/Value Test	
2	Impact Value Test	
3	Gradation Test/Sieve Analysis/Fineness Modulus	
4	'Flakiness Index Test	
5	Elongation Index Test	
6	Specific Gravity Test	
7	Silt/Clay Content in fine aggregates	
8	Density/Bulk Density/Dry Density	
9	Water Absorption Test	
10	Deleterious Material test	
11	Organic Material Test	
12	Brick Testing (6 Bricks)	
13	Cement Testing (01 bag)	
14	Concrete Cube (03 cubes)	
15	Concrete Mix Design (Without Admixture)	
16	Concrete Mix Design (With Admixture)	
17	Steel Testing (up to 25mm) Above 25mm	
18	Flexural Strength of Concrete beam	
19	Compressive Strength of Concrete Beam	
20	Interlocking ' Tiles	
21	Kerb Stone/Pavers Test	
22	Vitrified/ Ceramic Tiles Test	

23	Granite/Marble/Kota Stone/Sand Stone Test	
24	Wooden frame (Moisture Content) Test	
25	Wooden Flush Door Shutter Test	
26	Aluminum Section Test	
27	NDT (Non Destructive Testing of concrete)	
28	Structural Design of RCC (Reinforced cement concrete) Buildings	
29	Structural Design of Steel Buildings	
30	Structural Design of Water Tank/ Sewage Treatment plant/Water Treatment plant	
31	Sewage Man Hole Cover Testing	
32	Vetting/Proof Checking of Structure design of buildings	
	Rate List of Consultancy Tests	
	Soil Lab	
1	Sieve Analysis	
2	Hydrometer Analysis	
3	Specific Gravity Test	
4	Moisture Content Field Density by Core Cutter	
5	Moisture content, Filed Density by Sand Replacement	
6	Relative Density Test	
7	Liquid Limit, Plastic Limit	
8	Compaction Test	
9	Unconfined compression Test	
10	Permeability Test	
11	Direct Shear Test	
12	Triaxial Test	
13	Consolidation Test	
14	C.B.R (California Bearing ratio) Test	
15	Soil Test Brick (Classification)	
16	Compaction (MDD (Maximum dry density) /OMC (Optimum moisture content) Test	
17	Plate Load Test	
18	Bearing Capacity by SPT(Standard penetration test) as per depth of Exploration as given under	
1.	<6	
2.	<6m-15m	
3.	15m-20m	

4.	20m-25m	
19	O.H.S.R (Over head service reservoir) Soil Bearing Capacity	
A	25000 Litres Capacity	
B	50000 Litres Capacity	
C	75000 Litres capacity	
D	1.0 Lac Litres Capacity	
E	1.5 Lac Litres Capacity	
F	2.0 Lac Litres Capacity	
G	2.5 Lac Litres Capacity	
H	5.0 Lac Litres Capacity	
I	10.0 Lac Litres Capacity	
	Tests on Soil Sub grade and GSB (Granular sub-base) Material	
1	California Bearing Ratio (CBR) Test	
2	Compaction (MDD (Maximum dry density) /OMC (Optimum moisture content) Test	
	Tests on Stone Aggregate and Railway Ballast	
1	Crushing Value Test	
2	Abrasion Value Test	
3	Impact value Test	
4	Gradation Test	
5	Flakiness Index Test	
6	Elongation Index Test	
7	Specific Gravity Test	
8	Water Absorption Test	
	Tests on Bituminous Materials	
1	Penetration Test	
2	Ductility Test	
3	Softening Point Test	
4	Flash & Fire Point Test	
5	Viscosity Test	
6	Specific Gravity Test	
	Tests on Bituminous Mixes	
1	Stripping Value Test	
2	Bitumen Content Test	
	Field Tests	

1	Field Density Test by Sand Replacement Method	
2	Field Density Test by Core Cutter	
3	Road Roughness Test using Roughometer	
4	Benkelman Beam Deflection Test	
	Job Mix Formula/Mix Design	
1	Bituminous Mix /Semi dense bituminous Concrete /Bituminous Concrete	
2	Wet Mix Macadam/ Granular sub-base	
	Pavement Design	
1	Design of Flexible Pavement	
2	Design of Rigid Pavement	
3	Design of Overlay for Flexible Pavement	
	Rate List of Consultancy Tests Environmental Lab	
1	Water Testing (Construction Purpose)	
2	Effluent/Sewage Sample Test (PH, COD, BOD, TSS, E-Coli/Fccal Coliform)	
3	BOD (Bio chemical Oxygen demand)Test	
4	COD (chemical Oxygen demand)Test	
5	Dissolved oxygen	
6	Sulphate Test	
7	E-Coli/ Fccal Coliform	
8	PH	
9	TSS (Total suspended solids)	
<p>Note: i) GST shall be Extra as applicable ii) Transportation charges for in-situ test will be extra.</p>		

