

Guru Nanak Dev Engineering College, Ludhiana
Testing & Consultancy Cell

Rate List w. e. f. 01.06.2019

Soil Investigation

1. For Over Head Service Reservoirs (OHSR)*

S. No.	OHSR, Capacity	Depth of investigation(m)	Rate, Rs
1	25000 Litres	10	6,500
2	50000 Litres	10	7,000
3	75000 Litres	10	7,500
4	1.0 Lac Litres	12	9,000
5	1.5 Lac Litres	12	9,000
6	2.0 Lac Litres	12	9,500
7	2.5 Lac Litres	12	10,000
8	5.0 Lac Litres	15	10,500
9	0.50 Lac Gallons	12	9,000
10	1.0 Lac Gallons	15	11,000
11	1.5 Lac Gallons	20	15,000
12	2.0 Lac Gallons	20	15,000

2. For Buildings & Other Structures*

S. No.	Depth (m)	Rate in Rs. / m depth	Amount, Rs
1	0-10	750 (Min)	Rs. 7500
2	10-20	950	Rs. 9500
3	20-30	1250	Rs. 12500
4	More than 30	1550	

*Transportation charges and GST / taxes are extra
Special concession @ 10% if the structural design is being done through the TCC

3. Soil Samples

S. No.	Test	Sample Qty. needed	Rate, Rs
1	Sieve Analysis	15 Kg.	1000
2	Fineness Modulus	15 Kg.	1000
3	Silt Content	15 Kg.	1000
4	Moisture Content	15 Kg.	1000
5	Liquid Limit & Plastic Limit	15 Kg.	1000
6	Specific Gravity	15 Kg.	1000
7	Bulk Density	15 Kg.	1000
8	Silt and Clay content	15 Kg.	1000
9	Deleterious Material	15 Kg.	2000
10	CBR Test (Soaked)	15 Kg.	4000
11	CBR Test (Un-soaked)	15 Kg.	3500
12	Free Swell Soil Test	15 Kg.	1000

13	Direct Shear Test	15 Kg.	3500
14	MDD & OMC	15 Kg.	2000
15	Compaction Test Lab. Tests	15 Kg.	2000/-

4. Sand Samples (Coarse & Fine)

S. No.	Test	Sample Qty.	Rate, Rs
1	Sieve Analysis	15 Kg.	1000
2	Fineness Modulus	15 Kg.	1000
3	Silt Content	15 Kg.	1000
4	Moisture Content	15 Kg.	1000
5	Liquid Limit & Plastic Limit	15 Kg.	1000
6	Specific Gravity	15 Kg.	1000
7	Bulk Density	15 Kg.	1000
8	Silt and Clay content	15 Kg.	1000
9	Deleterious Material	15 Kg.	2000
10	Specific Gravity	15 Kg.	1000
11	Bulking of Sand	15 Kg.	1000
12	Bulk Density	15 Kg.	1000

5. Coarse Aggregates/*Gatka/Bajri*)

S. No.	Test	Sample Qty.	Rate, Rs
1	Gradation	15 Kg.	1000
2	Water Absorption	15 Kg.	1000
3	AIV	15 Kg.	1000
4	Specific Gravity	15 Kg.	1000
5	Bulk Density	15 Kg.	1000
6	Elongation	15 Kg.	1000
7	Flakiness	15 Kg.	1000
8	Abrasion	15 Kg.	1000
9	Crushing value	15 Kg.	1000
10	Impact Value	15 Kg.	1000
11	Deleterious Material	15 Kg.	2000
12	10 % Fineness	15 Kg.	2000

6. Other Field Tests

S. No.	Depth (m)	Rate, Rs
1.	Field CBR Test	10,000
2.	Pile Load Test	10,000
3	Bankelman Beam Test	7,500
4	Plate Load Test	10,000

5	Field Compaction Tests up to 5 No. Points	12,000 (for up to 5 Testing Points) Rs. 2000/- Per Testing Point thereafter
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7. BM/PC

S. No.	Test	Sample Qty.	Rate, Rs
1	Bitumen Content	15 Kg.	2000
2	Gradation	15 Kg.	1000
3	Bitumen (Ductility Value, Softening Point & Total Soluble Solids)	15 Kg.	5000

8. Others

S. No.	Test	Sample Qty.	Rate, Rs
1	Job Mix Formula	1. Aggregates One Bag 2. Cement/Lime 3 Kg. 3. Bitumen 3 Kg.	10000
2	Design of Man Hole	Depth Size up to 4.0 mm Depth size above 4.0 mm	6000/- 9000/-
3	RCC Pipe Testing (Length 6.5')	Up to 300 mm dia More than 300 mm and up to 400 mm More than 400 mm and up to 600 mm	15000/- 25,000/- 30,000/-
4	RCC beam and slab full scale testing in the lab	Please consult the lab for the sizes and charges	

Survey

- Preparation of Contour/survey/topographical Maps
Rs. 2500/- per acre in plain area
Rs. 3000/- Per acre for Built up Area and Semi-Hilly area
Rs. 5000/- per acre in Hilly area

- Layout /alignment
Rs 2/sft for the buildings
Rs 5/m length for the roads/drains/canals

Mini charges Rs. 15000/- (Rupees Fifteen Thousand only) plus transportation.

Water & Sewage Samples (Composite samples, should be kept at 0-4° C during composting and should be brought to the lab within 5-6 hours of composting, (at the same temp i.e. 0-4° C)

Sr. No.	Parameter to be tests	Sample Qty.	Rate, Rs.
1.	1. pH	5-10 Litres	300.00
	2. Color		300.00
	3. COD (Total)		800.00
	4. COD (Filtered)		700.00
	5. BOD5 (Total)		800.00
	6. BOD5 (filtered)		800.00
	7. Sulphide (as S ²⁻)		500.00
	8. Sulphate (as SO ₄ ²⁻)		500.00
	9. Alkalinity (as mg Ca CO ₃ /l)		300.00
	10. Total Suspended solids (mg/l)		600.00
2	11. Volatile Suspended solids (mg/l)		700.00
	12. Chlorides (as Cl ⁻)		300.00
	Nickel		500.00
	Iron		500.00
	Magnesium		500.00
	Copper		500.00
	Hardness		500.00
	Nitrates		500.00
	Nitrites		500.00
	Turbidity		300.00
	Faecal coliform (E.Coli/MPN) -Biological		1500
	TDS		500
	Taste & Odor		100
	Calcium, Ca(Mg/l)		500
	Residual Free Chlorine (Mg/l)		500
	Fluorides		300
	Ammonia Nitrogen in mg/l		500
	Total Phosphorus in mg/l (PO ₄ -P)		500
	TKN (Nitrogen)		800
	Silica		500
	Oil & Grease		500
	Conductivity Test		300
	MLSS		800
	MLVSS		1000
	Zinc		500
	Lead		500
	Conductivity		300
3.	Comprehensive physico-chemical and Biological analysis of drinking water	2 Ltrs.	5500.00

Building Material

Sample	Test	Sample Qty.	Rate, Rs
Cement	a) Initial & Final Setting time b) Comp. Strength (at 7 day's curing) c) at 28 day's curing d) Soundness e) Fineness f) Consistency	1 bag	2500/-
Cubes	Comp. Strength	One Set of 3 cubes	600/- per Set
Reinforcing Steel, Barbed Wire, Structural Angle, Flats & Tees Channel, Plates	<i>Physical tests:</i> a) Ultimate Tensile Strength b) Percentage Elongation c) Bend test d) 0.2 Proof Stress	1 m long sample of 3 pieces	2500/- per sample
	<i>Chemical tests:</i> a) Carbon, Sulphur, and Phosphorus	50mm x 50 mm	2000/- per sample
	b) Carbon, Sulphur Phosphorus, Silicon, Manganese, Nickel, Chromium		3000/- per sample
Bricks	a) Comp. Strength b) Water Absorption c) Efflorescence	10 Bricks	1500/- per sample
Wood	Moisture Content, Class Test, Grade and Density		1500/-
Concrete pavers, blocks	Comp. Strength	One piece	300/- per piece
	Flexural Strength		1000/- per piece
	Water Absorption		300/- per piece
	Abrasion Value		2000/- per piece
Karb stone, precast concrete panels, Hollow and solid blocks	Comp. Strength Ready for testing Sample (Cylinder or Cube 100 x100 x100 mm)	One piece	600/- per piece
	Comp. Strength		6000/- per piece
	Testing Sample to be prepared in the lab		
Concrete Mix Design		1 Bag Cement 2 Bags Sand 2 Bags Aggregates And admixture	Up to mix M40, Rs. 10000 above mix M40, Rs. 15000 Rs 5000/- extra for mix using admixtures
Sr. No.	Sample (CHEMICAL TESTING)		Rate in Rs.
1.	Cement chemical composition		3000
2.	Cement Mortar for Ratio		5000
3.	Cement Concrete for Ratio		5000
4.	Coarse/fine Aggregates		
4(a)	Complete Analysis		2400.00
4(b)	Deleterious Material Only		2000.00

Non-destructive testing (NDT)

Rebound Hammer Testing*	OHSR Up to 2.5 Lac Litres Capacity OHSR Above 2.5 Lac Litres Capacity Other Structures	(for up to 5 Testing Points) Rs. 2000/- Per Testing Point thereafter	20000/- 30000/- Rs. 2000/- Per Testing Point
Ultrasonic Pulse Velocity (UPV) Testing*	Any type of RC Structures	No. of the test points to be decided by consultant based upon the type of the problem and its requirement	Minimum 20000/- (for up to 4 No. Cores) Rs. 3000/- Per Testing Point thereafter
Core Cutting & Testing*	Any type of RC Structures	No. of the test points to be decided by consultant based upon the type of the problem and its requirement	Minimum 20000/- (for up to 4 Testing Points) Rs. 3000/- Per Testing Point thereafter

* Note: For the outside of Ludhiana city, Additional charges for transportation and carriage of equipments

Structural Design and Vetting Charges

These rates are indicative and for the applicable exact rate, the expert need to be consulted as there may be many complexities.

A	OHSR, Capacity in liters	Rate, Rs (for design and vetting, both)			
		For all values of soil bearing capacity.			
		After 10 days			
1	Up to 4,50,000			15,000	
5	More than 4,50,000			20,000	
B	Buildings	Rs / sft of the cover area			
		<ul style="list-style-type: none"> Min. design charges, Rs 10,000/- plus GST Rs 2/sft extra for the basement, if any Rs 1/sft extra for low soil BC, and if piles are required. These rates are for drawings only, Rs 1/sft extra for the report, if required. For pre-stressed girders, 25% extra charges For steel girders, 20 % extra charges 			
		After 30 days	After 20 days	After 10 days	After 3 days
1	Design of buildings up to the 3 Stories	2	3	4	5
2	More than 3 Stories and up to 6 stories	3 (GF) 2 (all others)	4 (GF) 3 (all)	5 (GF) 3 (all)	6 (GF) 5 (all others)
3	More than 6 stories	Lump-sum to be decided by the designer			
4	Vetting of design reports and drawings	50% of the above mentioned design charges			
C	Bridges and culverts	<ul style="list-style-type: none"> Min. design charges, Rs 25,000/- plus GST Min delivery time = 20 days For pre-stressed girders, 35% extra charges For steel girders, 25 % extra charges 			
1	Span up to 6 m	Rs 25,000/-			
2	6 to less than 8 m	Rs 35,000/-			
3	8 to less than 12 m	Rs 45,000/-			
4	12 to less than 15 m	Rs 55,000/-			
5	More than 15 m	Lump-sum to be decided by the designer			
D	STPs, MPS	Lump-sum depending on type of work with a minimum of Rs. 15, 000/- per unit in the plant			

E	Poles, Advertising Poles etc.	Height up to 6 m	Rs. 10,000/-
		7 m to 10 m	Rs. 15,000/-
		11 m to 15 m	Rs. 20,000/-
		16 m to 20 m	Rs. 25,000/-
		> 20 m	Lump-sum
F	Pavements/ floors (in RC, SFRC sections)	Min. Rs 20,000/- per section for the flexible pavements	
		Min. Rs 25,000/- per section for the rigid pavements	
		Actual rates to be decided by designer depending upon the CBR values/ soil data/ test reports	
G	Any other project, not mentioned here	Lump-sum to be decided by the designer depending upon the type of the work	