

**CONSULTANCY & MATERIAL TESTING
SERVICES**
(DEPARTMENT OF CIVIL ENGINEERING)



VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

Bachupally, Nizampet(S.O.),Hyderabad -500 090

Phone: 040- 23042758/59/60

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Dear Sir,

Sub: Extending facilities of Testing, Design Consultancy Services in Various fields of Civil Engineering – Reg.

The Vignana Jyothi is carved and created in the year 1991 by a dedicated group of Industrialists, entrepreneurs and professionals who felt that education is the light that wipes out the darkness of an uncertain future among the youth and determined to impart quality education to them without selfish ends.

The Vignana Jyothi is managing

- 1) Vignana Jyothi Public School at Madhura Nagar, Hyderabad
- 2) Vignana Jyothi Institute of Management at Vignana Jyothi Nagar , Bachupally, R.R (Dist)
- 3) V.R.S and Vignana Jyothi Residential School at Vignana Jyothi Nagar, Bachupally, R.R (Dist)
- 4) **Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology (VNRVJIET), Bachupally, R.R.(Dist).**
- 5) Dr. D. Rama Naidu Vignana Jyothi Institute of Rural Development, Tuniki Village, Kowdipalli Mandal, Narsapur, Medak (Dist).

VNR Vignana Jyothi Institute of Engineering and Technology (VNRVJIET) was established in the year 1995 with the approval of All India Council for Technical Education, Government of India, New Delhi and Government of Andhra Pradesh.

COURSES OFFERED by VNRVJIET

A) U.G. PROGRAMMES

Annual Intake

1. Civil Engineering (CE)	120
2. Computer Science and Engineering (CSE)	240
3. Information Technology (IT)	180
4. Electronics and Communication Engineering (ECE)	240
5. Electrical and Electronics Engineering (EEE)	120
6. Electronics and Instrumentation Engineering (EIE)	120
7. Mechanical Engineering (ME)	120
8. Automobile Engineering (AE)	60

B) P.G. PROGRAMMES

Annual Intake

1. Structural Engineering (CE)	18
2. Geotechnical Engineering (CE)	18
3. Highway Engineering (CE)	18
4. Power Electronics (EEE)	18
5. Power Systems(EEE)	18
6. Automation(ME)	18
7. Advanced Manufacturing systems (ME)	18
8. CAD/CAM(ME)	18

9. Embedded Systems(ECE)	18
10. VLSI System Design (ECE)	18
11. Software Engineering (CSE)	18
12. Computer Science and Engineering(CSE)	18
13. Computer Networks & Information Security(IT)	18
14. Electronics & Instrumentation(EIE)	18

VNR Vignana Jyothi Institute of Engineering and Technology is located in Vignana Jyothi Nagar, near Bachupally village, about 8 Kilometers from Miyapur junction on Bombay Highway, on inner ring road and is about 6 Kilometers from Jawaharlal Nehru Technological University, Kukatpally, via HMT Hills and Pragati Nagar.

VNR Vignana Jyothi Institute of Engineering & Technology registered spectacular growth in various facets earning the reputation of being one of the top ranking technical institutes in the State of Telangana. It has been in the forefront in the march towards perfection in Technical Education and in taking the fruits of technology to the needy.

The Department of Civil Engineering was started in the year 2001. Civil Engineering Department is Accredited for 5 years by National Board of Accreditation (NBA). The laboratories of the department have been established with all modern State-of-art infrastructure facilities. Apart from Academics, Department extends its capabilities in testing various materials and Design Consultancy, Non Destructive Testing (NDT). The Department strongly believes in integrating academics with industry.

The department has well qualified and experienced faculty ably supported by highly skilled and competent technicians to undertake testing and consultancy works.

The details of the tests and the respective testing fee are enclosed. ***The fee charged for any test is minimum compared to any other organization/institute.*** The location map of the Institute is also enclosed for reference. You are welcome to contact us for any prompt service you need. Looking forward to build the professional relation.

With regards,

Sincerely Yours,
PRINCIPAL

Contact Nos.

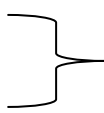
040-23042758/59/60(Ext-200)

Fax : 040-23042761

STRUCTURAL DESIGN CONSULTANCY

- Structural Designs & Drawings of RC Structures including high rise buildings
- Industrial Steel structure designs including fabrication drawings
- Proof Checking of Structural designs
- Structural Health Monitoring using NDT (Non Destructive Testing)

MATERIAL TESTING (CEMENT, CONCRETE, WOOD, TILES)

S.No.	Name of the Test	Amount(Rs.)
1	(i) Compressive Strength on Cement Concrete Cubes (ii) Hollow blocks, solid blocks	450/- 500/-
2	Test on Cement i) Fineness ii) Compressive Strength for 3,7 & 28 days iii) Consistency iv) Initial and Final Setting time v) Soundness	300/- 1200/- 500/- 200/- 200/-
3	Test on Coarse Aggregates i) Sieve Analysis ii) Fineness Modulus iii) Specific gravity iv) % of Voids v) Bulk Density	400/- 400/- 400/- 400/- 400/-
4	Tests on Fine Aggregate i) Specific gravity ii) Sieve Analysis iii) Bulk Density iv) Bulking of Sand v) Moisture content	400/- 400/- 400/- 400/- 400/-
5	Tests on Steel Specimens (Min of Three Samples) i) Weight per metre (3 nos) ii) Ultimate tensile strength iii) % Elongation iv) Bend & rebend Test v) Proof stress	 600/- 600/- 1500/-
6	Concrete Mix Design	6000/-
7	(i) Brick Test (Min of 3 Samples) Compressive Strength + water absorption (ii) Dimensions	600/- 200/-

S.No.	Name of the Test	Amount(Rs.)
8	Torsion (3specimens Min)	600/-
9	Tiles	1200/-
10	Tests on Wood (i) Compressive strength (ii) Moisture content	450/- 500/-

SOIL TESTING

S.No.	Name of testing	Amount(Rs.)
1	Standard penetration test (Safe bearing capacity)	7000/-
2	Dynamic cone penetration test	7500/-
3	Plate load test (Safe bearing capacity)	10,000/-
4	Undisturbed and disturbed sampling of soil	1000/-
5	In situ moisture content (Rapid moisture meter)	1000/-
6	Safe Bearing Capacity test from c, ϕ values	6000/-
7	Core Cutter and Moisture Content test	1000/-
8	Specific gravity test	1000/-
9	Sieve Analysis test	1000/-
10	Liquid limit	1000/-
11	Plastic limit	800/-
12	Shrinkage limit	1500/-
13	Proctor Compaction test	1500/-
14	Permeability	1500/-
15	Consolidation	3000/-
16	Relative Density	2000/-
17	CBR test Unsoaked	1000/-
18	CBR test soaked	1500/-
19	Unconfined compression test	2000/-
20	Vane shear test	1000/-
21	Triaxial test UU test CU test CD test	1500/- 3000/- 6000/-
22	Free swelling Index	1000/-
23	Swell pressure	3000/-
24	Modified compaction	3000/-
25	Consolidation	4500/-
26	Hydrometer Analysis	1500/-
27	Permeability clay soils	2500/-
28	Permeability from consolidation	3500/-

WATER & AIR TESTING

S.No.	Name of the Test	Amount(Rs.)
1	Acidity test, Alkalinity	300/-
2	Total Hardness test	400/-
3	pH test i) Water	300/-

S.No.	Name of the Test	Amount(Rs.)
	ii) Soil	400/-
4	Conductivity test i) Water ii) Soil	300/- 400/-
5	Turbidity test	300/-
6	Total dissolved solids	300/-
7	Total Solids	300/-
8	Dissolved oxygen	300/-
9	Design of Water/Waste water treatment plants	Negotiable
10	Moisture Content i) Wood ii) Doors & windows	600/- 1500/-
11	Measurement of i) Chlorides ii) Fluorides iii) Nitrates iv) Ammonia	300/- 300/- 300/- 300/-
12	Measurement of Heavy Metals Zinc, Cadmium, Lead, Chromium, Lithium, Calcium, Magnesium, Sodium, Selenium, Cobalt, Copper & Gold	For Each 500/-
13	Optimum coagulant measurement	500/-
14	Measurement of Phosphates	300/-
15	Soil organic content test	600/-

HIGHWAY MATERIAL TESTING

S.No.	Test Characteristics / Properties & Parameters	Test Method	Sample Quantity	Amount (Rs.)
1.	Polished Stone Value-PSV	BS 812 P 114 IS 2386 P 04	60 Kg.	15,000/-
2.	Loss on heating-TFOT	IS:1212	3.0 Kg	5,000/-
3.	Short Term Ageing - RTFO	IS 9382 ASTM D 2872	4.0 Kg	5,000/-
4.	Resilient Modulus – Bitumen Mixes	ASTM D 7369	Each Mix of Three Marshal Samples (100 dia)	20,000/-
5.	Fatigue	ASTM D 7369	Each Mix of Three Marshal Samples (100 dia)	5,000/-
6.	Rutting & Stripping Characteristics for Bitumen Mixes	AASHTO- T324	15 Kg	15,000/-
7.	Non - Immersion Rutting Characteristics - Bitumen Mixes	AASHTO- T324	15 Kg	10,000/-

S.No.	Test Characteristics / Properties & Parameters	Test Method	Sample Quantity	Amount (Rs.)
8.	Plate Load Test at site	IS 1888 1982	Field Test	10,000
9.	Pavement Evaluation – BBD Studies at site	IRC - 81	Field Test	2,000/- per KM
10.	Axle load Survey at site	IRC SP 19	Field Test	25,000 per day
11.	Classified Volume Count at site		Field Test	Negotiable
12.	Determination of Field CBR	IS:2720 P31	Field Test	3,000/- per test

TRANSPORTATION ENGINEERING TESTS

S. No.	Test Characteristics / Properties & Parameters	Test Method	Sample Quantity	Amount (Rs.)
1.	Sieve Analysis, FM & Grad. Curve	IS:2386 P01	20 Kg	1,000/-
2.	Flakiness & Elongation Index	IS:2386 P01	15 Kg	500/-
3.	Angularity Number	IS:2386 P01	15 Kg	500/-
4.	Sp. Gr. & Water Absorption	IS:2386 P03	15 Kg	500/-
5.	Aggregate Impact Value-AIV	IS:2386 P04	15 Kg	1000/-
6.	Aggregate Abrasion Value- (LA)	IS:2386 P04	15 Kg	1000/-
7.	Aggregate Crushing Value-ACV	IS:2386 P04	15 Kg	1000/-
8.	Ten Percent Fines Value-TFV	IS:2386 P04	15 Kg	1000/-
9.	Soundness with Na ₂ SO ₄ / MgSO ₄ (5 Cycles)	IS:2386 P04	50 Kg	1000/-
10.	Absolute Viscosity at 60°C	IS: 1206 PO2	1.5 Kg	1500/-
11.	Kinematic Viscosity at 135°C	IS: 1206 PO2	1.5 Kg	1500/-
12.	Ductility of TFOT Residue	IS 1208		1000/-
13.	Penetration at 25°C	IS 1203	3.0 Kg	1000/-
14.	Ductility at 27°C	IS 1208	3.0 Kg	1000/-
15.	Softening Point- Ring & Ball	IS 1205	3.0 kg	1000/-
16.	Flash Point - COC	IS: 1448 P-69	2.0 Kg	1000/-
17.	Specific Gravity at 27°C	IS 1202	2.0 Kg	1000/-
18.	Elastic Recovery of TFOT at 25°C	SP- 53	1.0 Kg	1000/-
19.	Bitumen Mix Design – Marshal	MS-2	-	8000/-
20.	In-Direct Tensile Test	ASTM D 6931	-	5000/-
21.	Wet Mix Design	IS 9012 IRC 109	25 Kg	5000/-
22.	Bitumen Extraction	IS 13826 P7	3.0 Kg	1,500/-
23.	Traffic Noise Measurement	IRC 104	Field Studies	Negotiable
24.	Speed Studies	IRC SP 19	Field Studies	Negotiable
25.	Audit Studies for road crash	IRC 088	Field Studies	Negotiable
26.	Traffic signal design – Evaluation through VISSIM	IRC - 93	Field Studies	Negotiable

LAND SURVEYING

S.No	Name of the Test	Amount (Rs)
1	Boundaries Location	2000/-acre (Minimum 2500/-)
2	Contouring	2000/- acre
3	Plots & Roads layout	400/- hour
4	Total station hiring per day	2500/- Without operator 3000/- With operator

GIS

Digitization of maps

Editing, adding database, preparing layouts.

Note: For Field visit

- i) Client has to arrange the Transport facility to the faculty member and accompanying supporting staff.
- ii) Client has to pay Rs.500/- per day to a Faculty member and Rs.300/- per day to accompanying supporting staff.
- iii) The payment should be done in the form of D.D. drawn in favor of “PRINCIPAL” VNRVJIET payable at Hyderabad or payment can be done in the form of cash at Institute Account section towards the consultancy charges.