AESPL PROFILE

Khasra no-61,Matiala Village,Uttam Nagar New Delhi-110059
e-mail info@allumeraengineering.com 011-25633149
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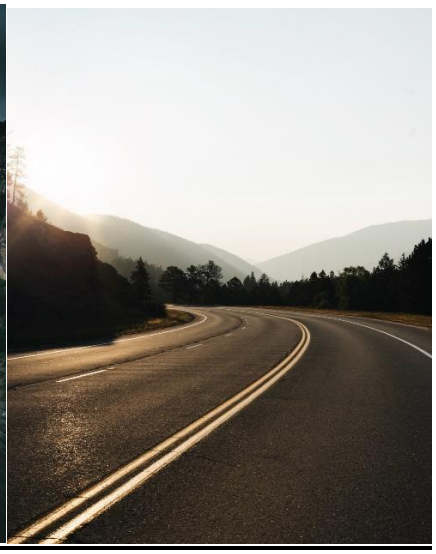
SECTORS WE SERVE

RAILWAYS

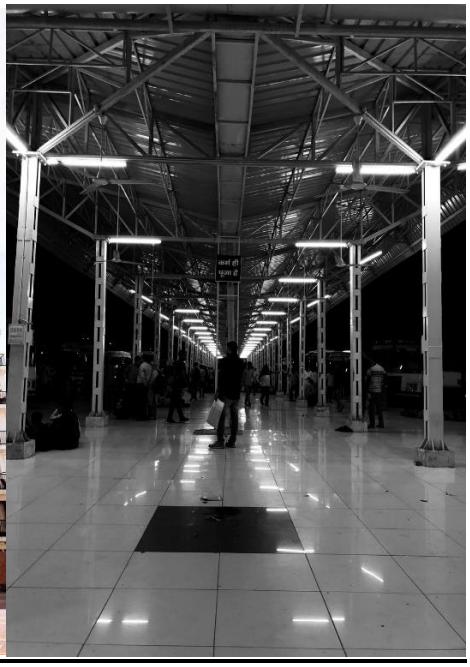
BRIDGES AND FLYOVERS



HIGHWAYS AND AIRPORTS

DAMS AND CANALS

BUILDINGS



INDUSTRIES & INSTITUTIIONS

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ABOUT US

COMMITTED TO GIVE YOU EXCELLENT SERVICE

AESPL is one of the emerging Engineering Consultancy firm. Founded with the vision of providing technical solutions to the construction industries, AESPL started initially with a state of the art **NABL certified laboratory vide certificate number TC-7246** having facility of analyzing different building materials and ascertain its physical and chemical properties. Our work spectrum is now diversified from Geotechnical investigation to include Pavement Design, Concrete Technology, Structural Rehabilitation, Quality Assurance and Training. Based in the National Capital of Delhi AESPL has a state-of-the-art testing facilities and procedures confirming to international standards (maintaining its quality system according to ISO/IEC-17025), ISO:9001:2015. It has well qualified technocrats consisting of Engineers, Analysts, Chemists, and trained Assistants.

OUR MISSION

Led by principles, fairness, and uncompromising ethics in all our professional dealings. AESPL mission is to:

- Build and connect strong, thriving communities through world-class engineering solutions
- Foster R&D activities in infrastructure engineering
- Support student education in the vast field of civil engineering materials
- Promote technology transfer to the engineering community and industry

OUR VISION

AESPL fosters a spirit of innovation in its areas of technical expertise. The company values challenges, an entrepreneurial mindset and intellectual and professional mobility .

Our Objectives

- Analyze different type of construction materials for its suitability and usage for various construction activities.
- Improve confidence , optimize usage and impart impact on the entire infrastructure industry.
- Develop non-destructive testing, monitoring, and evaluation methods of new and

QUALITY POLICY

AESPL provides Laboratory testing services and construction consultancy to a wide variety of customers and is committed to Providing quality services to these customers on time. To meet this goal AESPL issues the following

Policy statement:

- We at AESPL are committed to ensuring the highest professional standards and practices by each employee and assuring that each test performed by us meets these standards.
- The management is committed to providing the highest standards of services and maximum value to all its customers.
- The Management system provides for efficient management of resources through guiding principles of operation and maintenance in order to achieve the highest quality outputs.
- All personnel are committed to familiarizing themselves with the quality documentation and to implement the policies and procedures in their work.
- The management is committed to ensuring compliance to the regulations, national & international standards.

- The Management is committed to continually improve its management systems through making its employees understand the system and contribute in the improvement process.

OUR JOURNEY

2017

Established and registered as a Private limited company under Companies Act.

Implementation of Quality Management System ISO:9001:2015

2018

Implementation of ISO/17025:2005

NABL accreditation vide certificate No. **TC-7246.**

Empanelment to various government organization and National Highway projects like CPWD, IOCL, etc.

2019

Number of clienteles crossed 50

Number of projects associated crossed 50

Number of orders executed crossed 100.

2020

Turn Over crossed 700 thousand

Number of clienteles crossed 75

Number of projects associated crossed 70

Number of orders executed crossed 150.

OUR SERVICES

STRUCTURAL CONDITON SURVEY OF PAVEMENT

Using characteristic deflection and remaining life of pavement through non- destructive/ destructive techniques

FUNCTIONAL CONDITON SURVEY OF PAVEMENT

Visual Inspection and assessment of the condition of the pavement surface, Functional condition of pavement with the help of roughness, rutting and skid resistance

STRUCTURAL CONDITON SURVEY OF STRUCTURE

By using NDTs like UPV, Rebound Hammer, Half Cell Potentiometer etc. or by using destructive tests like Core cutting and testing

FUNCTIONAL CONDITON SURVEY OF STRUCTURE

Visual Inspection and assessment of the condition of the structures such as Buildings, Bridges, Flyovers, RoBs, Underpasses. Functional condition of structures by conducting Span Load test

NON-DESTRUCTIVE TESTING (NDT) & MONITORING

Rebound Hammer Test, UPV Test, Half Cell Potentiometer Test, Carbonation Test, Cover Meter, Span Load Test, Pile Load Test, Pile Integrity Test, BBD, FWD, NSV, Axle Load, Road Roughness

GEOTECHNICAL EXPLORATION

Borrow Area- Soil, Existing Pavement Crust Materials, In- situ tests (CBR, Compaction), Quarries/Mines (Fine Aggregate, Coarse Aggregate) Core Cutting

SITE SAMPLING

To investigate sub-soil condition, collect disturbed /undisturbed soil/rock samples, conduct various tests to determine and classify soil/rock strata , ascertain safe bearing capacity

DETERMINATION OF SBC & FIELD DATA COLLECTION

Plate Load Test, SPT, Traffic Survey

TRAINING AND DEVELOPEMENT

Risk Based Thinking, Quality Management Principles, HSE & Q Planning , Risk Assessment for activities, Advanced Lifting operations ,Safety in Road Construction, Art of Observation, Fixed & Flexible Pavement, Pavement Failure

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Causes & Controls, Concreting Operations. More modules can be developed as per requirement

QUALITY MANAGEMENT

Reliable solution to have better concrete strength and bituminous mix quality, Development of Quality Manual, Essential Procedures, ITP and Formats. Lab Set Up or providing assistance . For already constructed pavements/ Existing roads from O & M perspective, analyze and suggesting remedial measures . Perform task observation, identify training need and deliver at site in Field and conference room for various activities, Factual information to Top Management to initiate appropriate

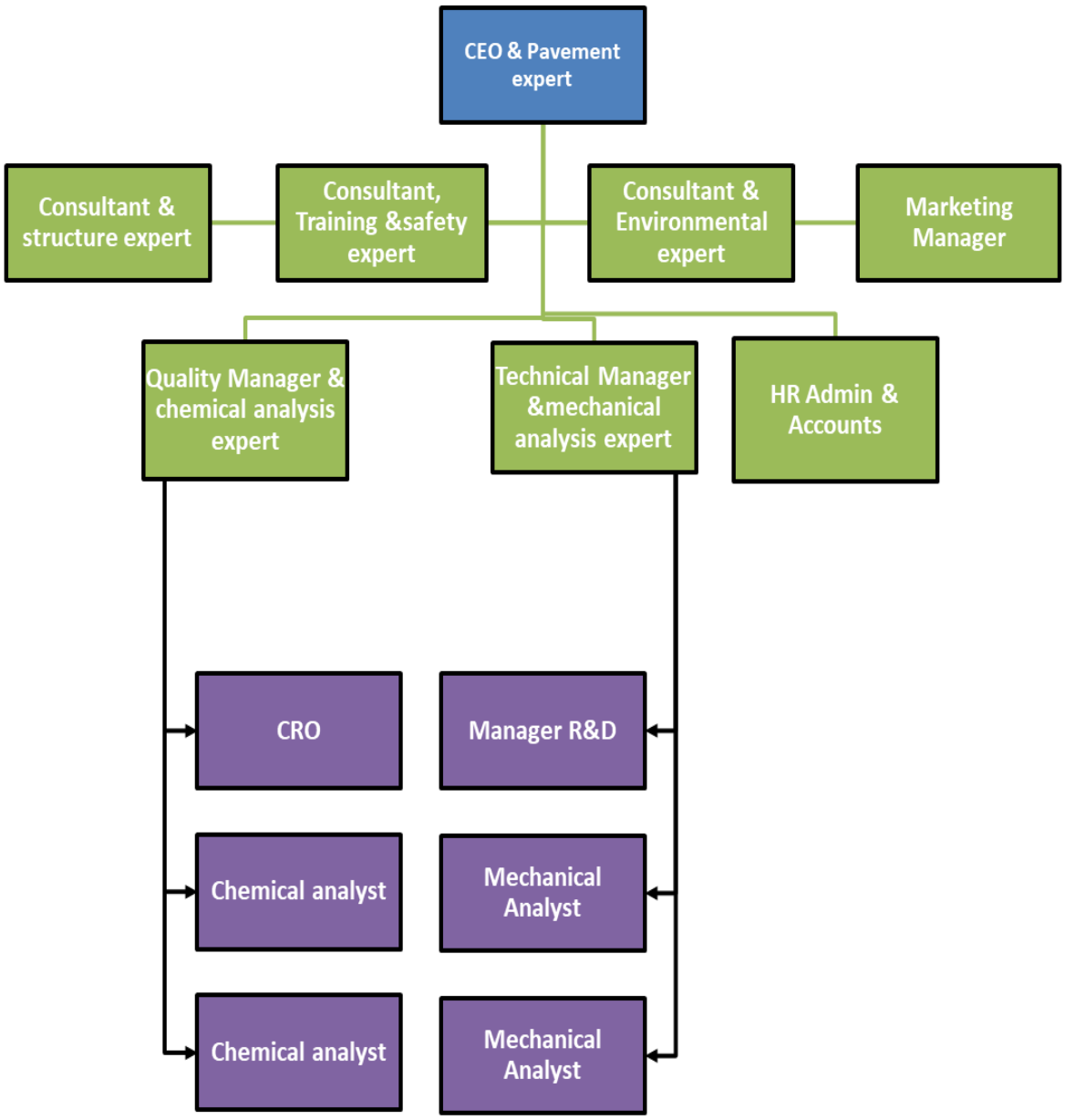
CHEMICAL AND PHYSICAL ANALYSIS OF BUILDING MATERIALS

Soil, Bitumen, Aggregate, Reinforcement Steel, Cement, Water, Admixture, Flyash, Wood, Tiles, AAC block, Brick, Concrete, Aluminum Section, RCC Pipes, PVC Pipes, Dry Distemper, Enamel paints, Kitchen Sink, oil bound distemper, MDF Board, Steel

MIX DESIGNS OF CONSTRUCTION MATERIALS

GSB, WMM, DLC, PQC, CONCRETE, HIGH PERFORMANCE CONCRETE, SELF COMPACTING CONCRETE, BITUMIOUS MIXES, RAP, CTB, CTSB

ORGANOGRAM



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KEY TEAM MEMEBERS

ASHUTOSH RANJAN

CEO AND PAVEMENT EXPERT

Bachelor of Engineering (Civil), MBA (Total Quality Management), ME (Civil), FIE, Chartered Engineer, Member ICI

He has 24 years of rich experience in infrastructure industry with exposure to formulation and implementation of processes related to construction and organizational functioning. His expertise include assessment of construction quality, reduction of process wastages, optimization in mix and materials, imparting training, establishing systems and procedures. During his long carrier, he has been associated with reputed organizations like ICT, CES, GVK, HCC, Welspun. He has also worked abroad at Mauritius.

SACHIN DHAMANDA

CONSULTANT AND STRUCTURES EXPERT

Post Graduate Program in Management (Finance), B. Tech. (Civil)- HBTI Kanpur

He has 29 years of rich experience in infrastructure industry with exposure to project management of large Highway Projects from their inception to closure. His expertise include project planning, budgeting, scheduling, cost control and structural analysis. He has worked in India and abroad with reputed organizations like Punj Lloyd, Afcons and Welspun

SANJAY PRAKASH

CONSULTANT, TRAINER AND SAFETY EXPERT

Bachelor of Engineering (Mechanical), Membership of American Society of Mechanical Engineers, Member of Indian Institute of Welding ,ZED Certified Auditor from Quality Council of India

He has more than 33 years with association in Oil & Gas Industry and Infrastructure Projects. He had played active role in provoking industry for adopting Management System. For using Occupational Health & safety Management System to improve efficiency he was key participant to bring this standard to India in 1997. He had conducted many public courses for Lead Auditors in OHSMS. Diversifying from his field he provided the services for CE Marking of Medical Devices. Aditya Cement of Birla group was the first company in the country to be certified for ISO 9001:2000 by him as registered lead assessor.

APURBA ANAND, Ex. I.E.S.

CONSULTANT AND ENVIRONMENTAL EXPERT

Post Graduate Program in Management (Strategy & Leadership)- ISB, Hyderabad, M. Tech (Civil) with Environmental Engineering - IIT Kanpur, B. Tech. (Civil)- IIT, Kanpur

He has 29 years of rich experience in infrastructure/construction/real estate industry with exposure to techno commercial, budget, contract and claims management strategies spanning over wide spectrum of responsibilities shouldered by him in his carrier starting as an Executive Engineer in CPWD. After he switched over to Corporate sector in Highway Infrastructure, he has worked in various capacities in contract and legal departments of the companies

S. N. LAL

QUALITY MANAGER AND EXPERT IN CHEMICAL ANALYSIS
Bachelor of Science, trained professional- ISO 17025, having more than 30 years of experience in chemical testing and laboratory management

CHANDAN KUMAR

TECHNICAL MANAGER AND EXPERT IN MECHANICAL ANALYSIS
Diploma (Civil), Trained professional- ISO 17025, having more than 10 years of experience in mechanical testing and laboratory management

SURAJ RAJ

MANAGER R & D
Bachelor of Engineering (Civil), Trained professional- ISO 17025

HIMANI SHUKLA

ANALYST- CHEMICAL TESTS
Bachelor of Engineering- Chemical

SNEHA YADAV

ANALYST- MECHANICAL TESTS
Diploma (Civil)

PRAKSHAM NAGAR

ANALYST- FIELD TESTS
Diploma (Civil)

KRISHNA KUMAR

ANALYST- NDT
Diploma (Civil)

VIPIN

ANALYST- MIX DESIGNS
Diploma (Civil)

LIST OF VALUED CLIENTS

1. Abhay Sahni Projects Pvt. Ltd.
2. ACC Ltd.
3. Apco Infratech Pvt. Ltd.
4. Apex Buildsys Limited.
5. Ayush Procon Pvt. Ltd.
6. Buildtech Associates.
7. CAC Ltd
8. Ceigall India Ltd.
9. CP Arora Regent Infraprojects LLP
10. CSM Ecogreens Infrastructures Pvt. Ltd.
11. Curationtech Pvt. Ltd.
12. DRA -S&P (JV)
13. Elsamex Maintenance Services Ltd.
14. Etawah Chakeri Kanpur Highway Pvt. Ltd.
15. G.Eng Advisory Services Pvt. Ltd
16. Gammon Engineers and Contractors Pvt. Ltd.
17. Gawar Construction Limited.
18. GMR Infrastructure Ltd.
19. Himalayan Infracorp Pvt. Ltd.
20. Hands on Trades Pvt. Ltd
21. IVRCL Chandarpur Tollways Ltd.
22. Indradeep Construction Company
23. Jakson Eminence Private Limited
24. J. Kumar Infraprojects Ltd.
25. KCC Buildcon Pvt .Ltd.
26. Larsen & Toubro Limited, Construction

27. M.G Contractor Pvt. Ltd.
28. M/S ConBi infra Consultants Private Limited
29. M/S Aadyant Buildcon LLP
30. M/S S P Singla Construction Pvt. Ltd.
31. M/s Buildtech Associates
32. M/S Chetak Enterprises Ltd.
33. M/S Tomer Estate Pvt. Ltd.
34. Millennium City Expressways Private Limited
35. M/s Oriental Structural Engineers Pvt. Ltd.
36. M/S ECR Buildtech Pvt. Ltd.
37. M/S G.M. Engg. Works.
38. M/s Kaushal Kishore Singh
39. M/s Kumar Sanjay
40. M/s Rajeev Kumar Choudary
41. M/s Saraswati Techinfra Pvt. Ltd.
42. M/S Shashi Bhushan.
43. M/s Yadunandan Singh
44. Matrix Test Lab
45. Maccaferi Environmental Solutions Pvt. Ltd
46. New Indian Structures Pvt. Ltd.
47. NV Project Consultancy Private Ltd.
48. Oriental Parthway Agra Pvt. Ltd.
49. Oriental Structural Engineers Pvt. Ltd.
50. Pan India Infraprojects Private Ltd.
51. PR Associates
52. QBC Interiors Delhi.
53. Ram kumar Contractor
54. R K Infra.
55. R P Infraventure Private Limited

56. Radhe Rcc Products
57. Ramboll India Pvt. Ltd.
58. Rohtak Hissar Tollway Pvt. Ltd.
59. SOMDUTT ENTERPRISES
60. Srinagar Banihal Expressway Ltd.
61. Shreyas Civil Engineering
62. Srex Power India Pvt. Ltd
63. Srinagar Banihal Expressway Ltd.
64. Takenaka India Pvt. Ltd.
65. Usha Spun Pipes
66. Varaha Infra Ltd.
67. Varun Chandra Development & Construcation LLP
68. Welspun Enterprises Ltd.
69. Yearn Construction India Pvt. Ltd.
70. NBCC (India) Ltd
71. Indian Oil Corporation
72. CPWD

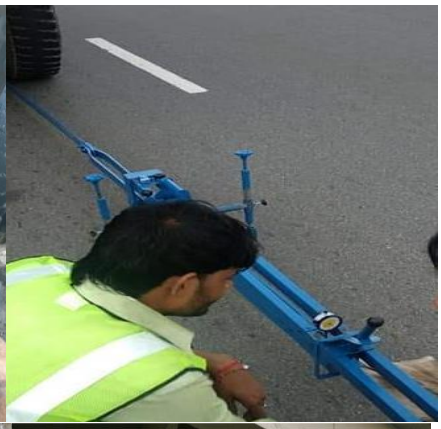
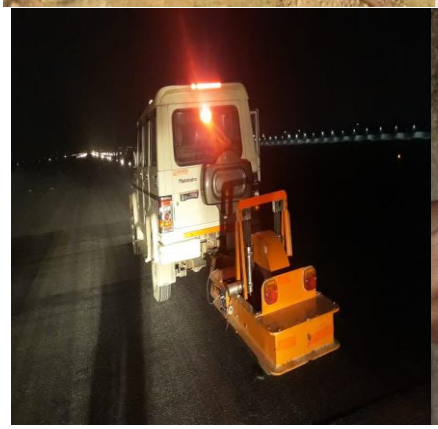
MAJOR WORKS EXECUTED

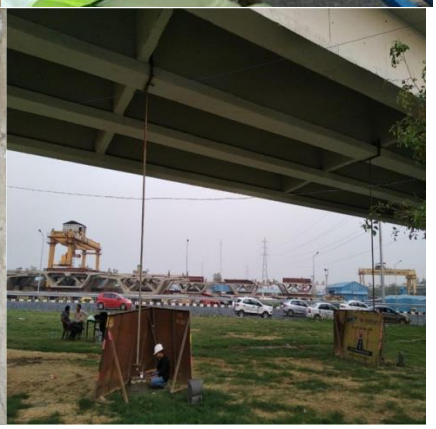
Name of Work	Customer	Client	P.O./W.O./Letter No.	Work Value (Rs.)
Core Cutting & testing	ACC LIMITED.	ACC	ACC/Site/Qc/1	46,138
Plate Load Test (as per IS:1888)at ch 41	CEIGALL INDIA LTD	NHAI	CIL/KA/WO/2018/80	35,400
Road roughness Test	CP ARORA REGENT INFRAPROJECTS LLP	IGI Airport	Proc/DIAL/2017-18/1092	35,400
Calibration of Equipment	Gammon Engineers and Contractors Private Limited	GECPL	GECPL/9501/WKOPR/18/00061	2,03,727
Material testing	GAWAR CONSTRUCTION LIMITED.	NHAI	GCL/NH-24/LAB/18-19/02	46,569
Bump Indicator Test	IVRCL CHANDRAPUR TOLLWAYS LIMITED	NHAI	IVCRL/CTL/WO/2018-19/12	2,46,620
Lab Material Testing	KCC Buildcon Pvt .Ltd.	KCC	KCC/ Watul-Ta/WO/2018/SO/94	1,94,724
Calibration of Equipment	KCC Buildcon Pvt .Ltd.	KCC	KCC/WATUL-Tal/WO/2018/so/93	1,04,194
Testing of Paver block	M/s Buildtech Associates.	IOCL	BR/CL-MN/25443696/391/223	48,970
Testing of Sand ,brick ,cement,mortar	M/s Saraswati Techinfra PVT LTD.	IOCL	BR/CL-MN/25409903/286/119	56,345
Testing of Sand ,brick ,cement,mortar	M/s Yadunandan Singh	IOCL	BR/CL-MN/25211664	30,385
oad roughness test by bump integrator	Millennium City Expressways Private Limited	NHAI	MECPL/IDFC/2018-19/74	2,12,400
Benkleman Beam deflection test 6/8 Del-	Millennium City Expressways Private Limited	NHAI	MECPL/IDFC/2018-19/75	2,29,392

Gurgaon section NH-8/Extracting core	Millennium City Expressways Private Limited	NHAI	MECPL/2018-19/86	2,12,400
Road roughness test by bump integrator	New Indian Structures Pvt.Ltd.	NHAI	NIS/18-19/Po/736dtd 12.04.18	76,464
Road roughness test	Oriental PARTHWAY AGRA PVT LTD	NHAI	OPAPL/RR/01	1,05,020
TMT Testing	Oriental Structural Engineers Pvt. Ltd.	NHAI	BTSNHPL/orp/18-19/PD/Q-1/645	1,08,088
Reinforce Steel Testing	PAN INDIA INFRAPROJECTS PRIVATE LTD	NHAI	PIIPI/Misc/2017-2018/0939	36,816
Testing of cement, Sand	Ram kumar Contractor	NHAI	RKC/DK/2017-18/191A	1,42,190
Testing Aggregate, Crushed sand Fine Sand	Ram kumar Contractor (GMDA Site)	NHAI	Rkc/DK/2017-18/263	1,03,781
Road Roughness Test	ROHTAK HISSAR TOLLWAY PRIVATE LIMITED.	NHAI	RHTPL/Design/rr/01	2,10,276
Rebound Hammer & UPV test, Span load, test, Road roughness test, Core cutting test, Testing of aggregate and Dowel bar	Apco Infratech Pvt.Ltd.	NHAI	APCO/FEPL/WO/200	7,45,596
Plate Load Test	Ceigall India Limited	NHAI	CIL/KA/WO/2020/80	1,29,800
Testing of civil constructional material	Jakson Eminence Private Limited	NHAI	JAKSON/AESPL/01-02	3,02,208
Quality Management Services- PMC	M/S ConBi infra Consultants Private Limited	NHAI	CICPL/ME/2020-21/31	2,16,333
Mechanical & Chemical test of TMT Steel	M/s Gawar Construction Limited	NHAI	MECH/20031801-02	1,18,000
Road roughness test by bump integrator	Millennium City Expressways Private Limited	NHAI	MECPL/2020-21/59	2,12,400
Reinforcement Steel Test- Physical and Chemical Analysis	Oriental Structural Engineers Pvt. Ltd.	NHAI	BTSNHPL/ORP/2020-21/Sr.Cpm/1545	3,35,946
Span Load Test (IRC SP: 51-1999)	R K Infra.	NHAI	RKI/JAI/AESPL/001	7,13,900
NDT (UPV & Rebound Hammer test)	R P Infraventure Private Limited	NHAI	RPI/SITE-I/105	41,300

Mix Design M30	Radhe Rcc Products	NHAI		14,890.42
Testing of soil for RE Wall	M/S Ram Kumar Contractor	NHAI	RKC/VBC/2020/47	38,291
Testing of steel & slag (Hindustan zinc)	Varun Chandra Development & Construcation LLP	NHAI	VCDC/LAB/AESPL/01	42,480
Mechanical & Chemical tests of Cement	Welspun Enterprises Ltd.	NHAI	MECH/20070301-13	1,24,254

PHOTO GALLERY



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MATERIAL TESTING FACILITIES

MECHANICAL TESTS

Sr. No.	Group of products, materials or items tested	Specific tests or types of tests performed	PROTOCOL
1.	Fine Aggregate (IS:383-2016)	Gradation	IS:2386(pt-1) -1963
		Water Absorption	IS:2386(pt-3) -1963
		Soundness test	IS:2386(pt-5) -1963
		Specific Gravity	IS:2386(pt-3) -1963
		Deleterious Content	IS:2386(pt-1) -1963
		Material finer than 75 micron	IS:2386(pt-1) -1963
		Coal & lignite	IS:2386(pt-2) -1963
		Clay and lumps	IS:2386(pt-2) -1963
		Surface Moisture	IS:2386(pt-3) -1963
2.	Coarse Aggregate (IS:383-2016)	Particle size & shape	IS:2386(pt-1) -1963
		Water absorption	IS:2386(pt-3) -1963
		Specific gravity	IS:2386(pt-3) -1963
		Aggregate impact value	IS:2386(pt-4) -1963
		Aggregate crushing value	IS:2386(pt-4) -1963
		Soundness test	IS:2386(pt-5) -1963
		Deleterious content	IS:2386(pt-1) -1963
		Material finer than 75 micron	IS:2386(pt-1) -1963
		Coal & Lignite	IS:2386(pt-2) -1963
		Clay and lump	IS:2386(pt-2) -1963
		10% Fine Value	IS:2386(pt-4) -1963
		Surface Moisture	IS:2386(pt-2) -1963
		Soft Particles	IS:2386(pt-2) -1963
		Abrasion value	IS:2386(pt-4) -1963

Sr. No.	Group of products, materials or items tested	Specific tests or types of tests performed	Protocol
3.	Brick-Common burnt building IS:1077-1992	Dimension	IS:1077:1992
		Water Absorption	IS:3495(pt-2)-1963
		Efflorescence	IS:3495(pt-3)-1963
		Compressive Strength	IS:3495(pt-1)-1963
4.	Fly Ash lime Brick IS:12894-1990	Dimension	IS:1077:1992
		Water Absorption	IS:3495(pt-2)-1963
		Efflorescence	IS:3495(pt-3)-1963
		Compressive Strength	IS:3495(pt-1)-1963
5.	Bitumen IS:73-2013	Bitumen Content	ASTMD-2172
		Softening Point	IS:1205:1978
		Penetration	IS:1203:1978
		Loss on heating	IS:1212:1978
		Flash/Fire Point	IS:1209:1978
6.	Cement (OPC/PPC/PSC)	Consistency	IS:4031(pt-4)-1988
		Fineness test (blain method)	IS:4031(pt-2)-1999
		Initial Setting Time	IS:4031(pt-5)-1988
		Final Setting Time	IS:4031(pt-5)-1988
		Compressive strength	IS:4031(pt-6)-1988
		Soundness by (a) Le-Chatelier's Method	IS:4031(pt-5)-1988
		b) Auto clave	IS:4031(pt-5)-1988

Sr. No.	Group of products, materials or items tested	Specific tests or types of tests performed	Protocol
7	Ceramic Tiles IS:15622:2006	1.Dimension	IS:13630(pt-1)-2006
		2.Water Absorption & Bulk Density	IS:13630(pt-2)-2006
		3. Resistance to thermal shock	IS:13630(pt-5)-2006
		4.Resistance to staining	IS:13630(pt-8)-2006
		5.Resistance to household chemical	IS:13630(pt-8)-2006
		6.Resistance to acid &alkali	IS:13630(pt-8)-2006
		7. Modulus of Rapture & Breaking strength.	IS:13630(pt-6)-2006
		8. Scratch hardness of Surface according to MOH	IS:13630(pt-13)-2006
8	Wood& Wood Products	Moisture content	IS:1708 (pt-1)-1986
		Specific Gravity	IS:1708 (pt-2)-1986
9	Plywood	IS:303-1989	As per IS:1708
10	Flush Door	IS:2202(pt-1)-1999	As per IS:2202
11	Block Board	IS:1659	As per IS:1659
12	Particle Board	IS:3078	As per IS:3078
13	Prelaminated particle Board	IS:12823(Except Tensile & cyclic test)	As per IS:12823
14	Dry Distemper	IS:407	As per IS:407
15	Oil bound Distemper	IS:428	As per IS:428
16	Cement Paint	IS:5410	As per IS:101 parts
17	Synthetic Enamel paint	IS:2932	As per IS:2932

Sr.No.	Group of products, materials or items tested	Specific tests or types of tests performed	Protocol
18	Steel Tube IS:1239 (pt-1)-2004 IS:1161	1. Mass Per meter	IS:1239(pt-1 &2)
		2.Ultimate Tensile Strength	IS:1608-2005
		3. Yield Stress	IS:1608-2005
		4.Elongation Test	IS:1608-2005
		5. Flattening Test	IS:1608-2005
19	Structural steel/Reinforcement Steel/Deformed Bars IS:1786-2008	1.Nominal Mass	IS:1786- 2008
		2. yield stress	IS:1608-2005
		3.Elongation, %	IS:1608-2005
		4.Tensile strength	IS:1608-2005
		5.Bend test	IS:1599-2012
		6. Rebend test	IS:1786-2008
20	Soil	1. Sieve Analysis	IS:2720 (pt-4) -1985
		2. Liquid Limit	IS:2720 (pt-5) -1985
		3.Plastic Limit	IS:2720 (pt-5)-1985
		4. Plasticity Index	IS:2720 (pt-5)-1985
		5. Maximum dry density	IS:2720 (pt-7& 8)-1983
		6. Free Swell Index	IS:2720 (pt-40)-1977
		7.California bearing ratio	IS:2720 (pt-16)-1987
		8.Direct shear test a> Angle of internal friction b> Cohesion intercept	IS:2720 (pt-13)-1986
		9. Water Content	IS:2720 (pt-2)-1985
		10.Specific Gravity	IS:2720 (pt-3)-1987

Sr. No.	Group of products, materials or items tested	Specific tests or types of tests performed	Protocol
21	Marble stone (IS:1130-1969)	Water absorption	IS:1124-1974
		Mhor's scale hardness	Mhor's scale
		Specific gravity	IS:1122-1974
22	Granite IS:3316-1974 IS:13030-1991	Moisture Content	IS:13030-1991
		Dry Density	IS:13030-1991
		Specific Gravity	IS:1122-1974
		Water Absorption	IS:1124-1974
		Porosity	IS:1124-1974
		Compressive Strength	IS:1121(pt-1)-2013
23	Concrete Structure	Ultrasonic Pulse velocity	IS:13311(pt 1)-1992
		Rebound hammer	IS:13311(pt- 2)-1992
		Carbonation test	ASTM C586-2011
		Cover meter test	BS 1881(204)-1988
		Crack depth measurement	ASTM C 597-2002
24	Other field Test	Bump Integrator(Road Roughness test)	IRC:SP:16
		Plate Load Test	IS:1888-1982
		Bridge Load Test	IRC:SP:37/IRC:SP :51
25	Benkelman beam deflection test	IRC-81:1997 – Guidelines	IRC-81:1997 – Guidelines
26	Pond Ash	Specific Gravity	IS:1727-1967/IS:2720 (Pt-3)-1980
		Plasticity Index	IS:2720 (Pt-5)-1985
		Max. Dry Density(gm/cc)	IS:2720 (Pt-7&8)-1983
		Optimum Moisture Content	DO
		Cohesion (KN/m	IS:2720 (Pt-13)-1986
		Angle of friction	DO
		Particle size distribution(%) Clay Size Fraction Silt Size Fraction Sand Size Fraction Gravel Size Fraction	IS:2720 (Pt-4)-1985
		Co-efficient of uniformity	IS:2720 (Pt-14)-1985
		Soluble sulphate content	IS:2720 (Pt-27) (pt-4) - 1977

Sr.No.	Group of products, materials or items tested	Specific tests or types of tests performed	Protocol
27	Job mix formula	As Per MoRTH	As Per MoRTH
28	Barbed Wire	IS:278	As per IS:278
29	MDF Board	IS:12406	As per IS:12406
30	Pipe(GI/CI/MS) Hollow Sec.	IS:4923/1239/1161	As per IS:4923/1239/1161
31	Structure steel	IS:2062(Gr. A without impact)	As per IS
32	Structure steel	IS:2062(Gr. B with impact)	As per IS
33	Wash Basin	IS :2556-2004	IS :2556-2004
34	Water Tank	IS:12701	Relevant IS
35	Kitchen Sink (ceramic clay) Kitchen Sink(steel)	Relevant IS	Relevant IS method
36	RCC Pipe	IS:3597-1998	Relevant Method
38	Core Cutting & testing of concrete per core	IS:516	As per IS:516
39	SWR Pipe ,PVC Pipe	IS:4985-2000,IS:14735,IS:13592	As per IS
38	Bitumen/Binder content	CPWD Specification	As per CPWD Specification
40	Job mix for BC/BM/DBM/Bitumen mastic	As Per MoRTH	As Per MoRTH
41	Hardness No.	IS:1500-2005/ASTMB294-17	IS:1500-2005/ ASTMB294-17
42	Marshall Stability	ASTM D6927-15	ASTM D 6927-15 MoRTH
43	Core cutting & Testing for DBMC & BC	As Specified	As Per Specification
44	Bitumen IS:702,73,217	IS:702,73,217	As per relevant IS: 702
45	Tar Felt	IS:1322	As per IS:1322
46	TMT/TOR(complete)	IS:1786	As per IS:1786
47	Concrete mix	Mix Design	IS:10262
48	Cube for compressive strength	ASTM C109/ C109M	IS:516
49	Aluminum Sec. IS:1285,737,733	IS:1285,737,733	As per relevant method

CHEMICAL TESTS

Sr.No.	Group of products, materials or items tested	Specific tests or types of tests performed	PROTOCOL
1	Cement (OPC/PPC/White Cement/PSC)	Insoluble Residue	IS: 4032 – 1985 (Reaffirmed 2014)
		Loss on Ignition	IS: 4032 – 1985 (Reaffirmed 2014)
		Silica Content (As SiO_2)	IS: 4032 – 1985 (Reaffirmed 2014)
		Combine Alumina oxide and iron oxide	IS: 4032 – 1985 (Reaffirmed 2014)
		Ferric oxide (Fe_2O_3)	IS: 4032 – 1985 (Reaffirmed 2014)
		Calcium oxide (CaO)	IS: 4032 – 1985 (Reaffirmed 2014)
		Sulphuric Anhydride (SO_3)	IS: 4032 – 1985 (Reaffirmed 2014)
		Magnisum Oxide (as MgO)	IS: 4032 – 1985 (Reaffirmed 2014)
		Alumina	IS: 4032-1985 (Reaffirmed 2011)
2	Fly Ash	Loss on Ignition	IS: 1727 -1967 (Reaffirmed 2013)
		Silica content (SiO_2)	IS: 1727-1967 (Reaffirmed 2013)
		Combine Alumina oxide and iron oxide	IS: 1727-1967 (Reaffirmed 2013)
		Sulphuric Anhydride (SO_3)	IS: 1727 -1967 (Reaffirmed 2013)
		Magnesium oxide(as MgO)	IS: 1727 -1967 (Reaffirmed 2013)

Sr. No.	Group of products, materials or items tested	Specific tests or types of tests performed	PROTOCOL
3.	Admixture	Dry Material Content	IS :9103-1999 (Reaffirmed 2008)
		Ash Content	IS: 9103-1999 (Reaffirmed 2008)
		Relative Density	IS :9103-1999 (Reaffirmed 2008)
		Chloride Content	IS :6925-1973 (Reaffirmed 2008)
		pH	IS :6925-1973 (Reaffirmed 2008)
4.	Plain Carbon Steel / Low Alloy Steel/structural Steel/Stainless steel	Carbon	IS: 228, P-1 1987, (Reaffirmed 2012)
		Sulphur	IS : 228, P-9 1989, (Reaffirmed 2014)
		Phosphorous	IS : 228, P-3 1987, (Reaffirmed 2012)
		Manganese	IS : 228, P-2 1987, (Reaffirmed 2012)
		Silicon	IS : 228, P-8 1989, (Reaffirmed 2014)
5.	Galvanised items	Mass of Zinc Coating	IS :6745-1972 (Reaffirmed 2011)

Sr.No.	Group of products, materials or items tested	Specific tests or types of tests performed	PROTOCOL
6.	Cement Concrete & Mortar	Ratio analysis	IS :1199-1965 (Reaffirmed 2011)
7.	Water for construction purpose	Volume of 0.02 Normal H_2SO_4 required to Neutralize 100 ml of sample (Alkalinity)	IS 3025– Part 23-1986(Reaffirmed 2014) /IS: 456 - 2000
		Volume of 0.02 Normal NaOH required to Neutralize 100 ml of sample (Acidity)	IS 3025- Part 22-1986(Reaffirmed 2014) /IS: 456 – 2000
		Chloride content	IS 3025 – 1988 Part 32 (Reaffirmed 2014)
		Sulphate content	IS 3025 – 1986 Part 24 (Reaffirmed 2014)
		Inorganic Solids	IS 3025 – 1984 Part 18 (Reaffirmed 2012)
		Organic Solids	IS 3025 – 1984 Part 18 (Reaffirmed 2012)
		Suspended Matter	IS 3025 – 1984 Part 17
		pH	IS:3025-1984 Pt-11

Sr.NO.	Group of products, materials or items tested	Specific tests or types of tests performed	PROTOCOL
8.	Drinking Water	Alkalinity	IS 3025– Part 23-1986 (Reaffirmed 2014)
		Chloride content	IS 3025 – 1988 Part 32 (Reaffirmed 2014)
		Sulphate content	IS 3025 – 1986 Part 24 (Reaffirmed 2014)
		TDS	IS 3025 – 1984 Part (Reaffirmed 2012)
		RESIDUAL CHLORINE	IS 3025 – 1984 Part 26
		Suspended Matter	IS 3025 – 1984 Part 17
		Total Hardness	IS 3025 – 1984 Part 21
		Calcium	IS:3025:1991 Pt-40
		Magnesium	IS :3025 Pt-46
		Odor	IS:3025:1983 Pt-5
		pH	IS:3025 :1984 Pt-11
		Conductivity	IS:3025:1984 Pt-14

Sr.No.	Group of products, materials or items tested	Specific tests or types of tests performed	PROTOCOL
9.	Swimming Pool Water (IS 3328:1993)	Alkalinity	IS 3025– Part 23-1986 (Reaffirmed 2014) .
		Oxygen absorbed in 4hrs at $27^{0}c$	Is 3025 part 38
		Chloride content	IS 3025 – 1988 Part 32 (Reaffirmed 2014)
		Heavy metal	IS:7017:1973
		TDS	IS 3025 – 1984 (Reaffirmed 2012)
		RESIDUAL CHLORINE	IS 3025 – 1986 Part 26
		Odor	IS:3025:1983 Pt-5
		pH	IS:3025 :1984 Pt-11
10.	Soil	Total soluble solid	IS:2720 (pt-21) -1977
		Organic Matter	IS:2720 (pt-22) -1972
		Calcium Carbonate	IS:2720 (pt-23)-1976
		pH Value	IS:2720 (pt-26)-1987
		Total Soluble Sulphate	IS:2720 (pt.- 27)-1977
		Conductivity	By Conductivity meter
		Chloride	Titrimetric method
11.	Pig Lead	Lead	IS:782-1978
12.	M.S wire	Chem.+ Mech.	IS:280-2006
13.	Aluminum Sec.	Anodizing Test	IS:5523-1983

ENVIRONMENTAL TESTS

Sr. No.	Group of products, materials or items tested	Specific tests or types of tests performed	PROTOCOL
1.	Air	Suspended Particle matter (SPM 2.5 and 10), CO,CO_2, NO_2, SO_2	IS:5182(P-4):1999 IS:5182(P-2):2001 IS: 5182(P-6):2006
2.	Noise	Noise Level	AESPL-E-01
3.	Water and Waste Water	pH,COD,BOD,Oil and Greese,Suspended Matter and other physic-chemical analysis	IS:5182(P-6):1999 IS:5182(P-23):2001 IS: 5182(P-4):2006 IS: 5182(P-10):1999 ASTM D3612
4	Solid Waste	Weight,Density,Physical Seggregation,Moisture ,Ash,GCV	AESPL-E-02, IS:1350 (P-01), IS 1350 (P-02)
5	Soil	pH,Conductivity,Moisture,Total Chloride, Nitrogen, Phosphorus, Water soluble sulphate, Total soluble sulphate,Water soluble solid	AESPL-E-03, IS 2720 (P-27), AESPL-E-03, IS 2720 (P-26), AESPL-E-03, IS 2720 (P-21)

NOTE: The above scope is for illustration only. For other tests and services feel free to contact us.

MAJOR EQUIPMENT AND TESTING FACILITIES

MECHANICAL AND NDT

S.No.	Name of Equipment	Make	Range / Least Count	Equipment ID
1.	Humidity Chamber	SBSW	0-70^{0}C, 0-99% RH/0.1^{0}C,1%RH	AESPL/ST/42
2.	Test Sieve 10mm	ASEW	10mm	AESPL/ST/02
3.	Test Sieve 9.5mm	ASEW	9.5mm	AESPL/ST/03
4.	Test Sieve 6.3mm	ASEW	6.3mm	AESPL/ST/04
5.	Test Sieve 4.75mm	ASEW	4.75mm	AESPL/ST/06
6.	Test Sieve 2.36mm	ASEW	2.36mm	AESPL/ST/0A
7	Test Sieve 2mm	ASEW	2mm	AESPL/ST/08
8	Test Sieve 600µm	ASEW	600µm	AESPL/ST/09
9	Test Sieve 300µm	ASEW	300µm	AESPL/ST/10
10	Test Sieve 150µm	ASEW	150µm	AESPL/ST/11
11	Test Sieve 425µm	ASEW	425µm	AESPL/ST/012
12	Test Sieve 90µm	ASEW	90µm	AESPL/ST/013
13	Test Sieve75µm	ASEW	75µm	AESPL/ST/014
14	Weight	ASEW	5kg	AESPL/MT/103
15	Weight	ASEW	2000kg	AESPL/MT/104
16.	Direct Shear Test Equipment	Balaji	2 KN- 50 KN	AESPL/MT/117
17.	CBR M/C	SSW	----	AESPL/MT/109
18.	Dig. MOR Testing Machine	Shri Balaji/ MOR-2017	0 to 8000 N	273/AESPL/MT/105
19.	Impact	SSW	----	AESPL/MT/148
20.	Vibrating table	SSW	----	AESPL/MT/149
21.	Weight	ASEW	10 kg	AESPL/MT/102
22.	Weight	ASEW	20kg	AESPL/MT/101
23.	Dig. Weighting Balance	Shinko 8323532	0-600 kg/0.1 g	AESPL/ST/015
24	Weighting Balance	SunStar	0-10 kg/0.1 g	AESPL/ST/107
25	Weighting Balance	SunStar	0-30 kg/0.002 kg	AESPL/ST/016
26	Rapid Moisture Meter	SSW	0-25%/0.5%	AESPL/ST/021

S.No.	Name of Equipment	Make	Range / Least Count	Equipment ID
27.	Dig. Techometer	Mextech/ 5035899	2.5-99999 RPM/1 RPM	AESPL/MT/107
28.	Counter Meter	ASEW	0-99999 count/ 1 count	AESPL/AT/27impact Val Test m/c
29	Dial Gauge	Mercer	0-25mm/0.01	AESPL/MT/30
30	Dial Gauge	Mercer	0-25mm/0.01	AESPL/MT/30A
31	Density Agg. (30,15,3 ltr.)	SSW	30,000 c.c 15000 c.c 3000 c.c	AESPL/MT/110 AESPL/MT/111 AESPL/MT/112
32	Slump cone	SSW	NA	AESPL/MT/118
33	Casa granade	SSW	NA	AESPL/MT/113
34	Temp. Indicator With Sensor	Mercer	-50 to3000C/ 0.1^0C	AESPL/MT/32
35	Measuring Tape	Not Specified	0-5000mm/ 1 mm	AESPL/MT/34
36	G.I. Test Sieve	SBSW/ 300mm	13.2mm/	AESPL/ST/36A
37	G.I. Test Sieve	SBSW/ 300mm	6.7mm	AESPL/ST/37
38	G.I. Test Sieve	SBSW/ 300mm	80mm	AESPL/ST/36/LAB
39	G.I. Test Sieve	SBSW/ 300mm	3.35mm	AESPL/AT/45
40.	G.I. Test Sieve	SBSW/ 300mm	1.18mm	AESPL/AT/46
41.	Brass Test Sieve	SBSW/ 200mm	1.7mm	AESPL/AT/53
42.	Brass Test Sieve	SBSW/ 200mm	8.0µm	AESPL/AT/54
43.	G.I. Test Sieve	SBSW/ 300mm	4mm	AESPL/AT/56
44.	G.I. Test Sieve	SBSW/ 300mm	8mm	AESPL/AT/57
45.	Measuring flask	SBSW	5000 ml	AESPL/AT/64 Plantry mixer
46.	Blain Air	Shri Balaji	Upto 500m^2/Kg	AESPL/MT/115
47.	Pycnometer	Shri Balaji	1000 cc	AESPL/MT/114

S.No.	Name of Equipment	Make	Range / Least Count	Equipment ID
48.	Vicat M/C + mould	Shri Balaji	25mm/1mm	AESPL/MT/138
49.	Vibrating M/C	PRITEC	12000 ± 400 rpm	AESPL/MT/119
50.	Humdifier	M/S Sharma	----	AESPL/MT/120
51.	Cube mould 50mm	ASEW	----	AESPL/MT/121 to 136
52.	Crauging Trowel 3	ASEW	----	AESPL/MT/140
53.	Shrinkage Mould	SBSW	25×282×25 mm	AESPL/AT/65
54.	Cube Mould	SBSW	150×150×150mm	AESPL/AT/66
55.	Analog Meter Los-Angles Abrasion Test	SBSW	0-99999 Count/ 1 Count	AESPL/AT/74
56.	G.I. Test Sieve	SBSW/300mm	25mm	AESPL/AT/58
57.	Dial Gauge (Penetration for Bitumen)	SBSW	0-40mm/0.1mm	AESPL/MT/79
58.	RPM Meter	300mm	0-3600 RPM	AESPL/MT/083
59.	G.I. Test Sieve	Azad/300mm	75mm	AESPL/MT/86
60.	G.I. Test Sieve	Azad/300mm	63mm	AESPL/MT/87
61.	G.I. Test Sieve	Azad/300mm	53mm	AESPL/MT/88
62.	G.I. Test Sieve	Azad/300mm	50mm	AESPL/MT/89
63.	G.I. Test Sieve	Azad/300mm	45mm	AESPL/MT/90
64.	G.I. Test Sieve	Azad/300mm	40mm	AESPL/MT/91
65.	G.I. Test Sieve	Azad/300mm	37.5mm	AESPL/MT/92
66.	Cube Mould 15x15x15 9 Pcs	ASEW	---------	AESPL/CM-1 to 9
67.	G.I. Test Sieve	Azad/300mm	31.5mm	AESPL/MT/93
68.	G.I. Test Sieve	Azad/300mm	20mm	AESPL/MT/94
69.	G.I. Test Sieve	Azad/300mm	16mm	AESPL/MT/95
70.	G.I. Test Sieve	Azad/300mm	12.5mm	AESPL/MT/96
71.	Digimatic indicator	Kency/143561	012.7mm/0.001	AESPL/MT/108
72	Concrete Mixture	SBSW	---------	AESPL/CM/1
73	Planatary Mixture	SBSW	---------	AESPL/PM/1
74	Pile Integrity Tester	STANLAY		AESPL/P1/1

S.No.	Name of Equipment	Make	Range / Least Count	Equipment ID
75.	Test Sieve	Standard Test	1 mm	AESPL/MT/116
76.	Dig. Thermo-Hygrometer	HTC - 1	0-99 % RH/1% RH	AESPL/MT/97
77.	Temp Indicator with Sensor	CE	-50 to 300^{0}C/0.1^{0}C	AESPL/MT/32A
78.	Digital Temp. indicator	I – Therm A-1-7481	20-1600^{0}C 20^{0}C	AESPL/CL/32
79.	Water Bath	SBSW	Amb. to 80^{0}C/0.1^{0}C	AESPL/MT/39
80.	Dial Gauge	Mercer	0-25 mm/0.01 mm	AESPL/MT/30B
81.	Dial Gauge	Mercer	0-25 mm/0.01 mm	AESPL/MT/30C
82.	Dig. Thermo-hygrometer	SBSW	0-70%,0 to 99% RH/ 0.1^{0}C/1% RH	AESPL/ST/42
83.	Feeler Gauge	----	0.038-0.635 mm	AESPL/Feeler/01
84.	Weighing Balance Specific Gravity	Orient	0-15 kg/0.5 kg	AESPL/MT/113
85.	Weighing balance	Dhona	0-200g/0.0001g	AESPL/CL/30
86.	Hot Air Oven	-------	0-250°C/10°C	AESPL/ST/18
87.	Digital Compression Testing Machine	ASEW	0 – 2000 KN	4340/AESPL/CT/23
88.	Pressure Gauge	H.Guru	0-40 kg/cm^2/ 1 kg/cm^2	AESPL/AT/68 Cement Autoclave
89.	Rebound Hammer	ASEW	10 to 100 Mpa/2 Mpa	ASEW/11-12/4294
90.	Ultrasonic Pulse Velocity Testing M/C	Matest	0-999/ 1 µsec	AESPL/UPV/01
91.	Dig. Universal Testing Machine	PSI/PMT-IE100	0 to 1000 KN	1705/AESPL/MT/84
92.	Proving Ring With Dial Gauge	Baker	0-50 KN/ 0.002 mm	50kN.02.980/ Merchant Lab
93.	Proving Ring With Dial Gauge	Mercer India	0-2KN/ 0.002mm	ASEW 2kN-120
94.	Half Cell Potentiometer	Avantech	0-1000 mv/ 1 mv	AESPL/HCF/01

CHEMICAL

S.No	Name of Equipment	Make	Sr.No./I.d.No.	Range	Least Count
1.	Pressure Gauge	Eure	AESPL/CL/33	0 - 25 kg/cm^2	10 kg/cm^2
2.	Analog Temp. Indicator (Pyrometer)	SE	AESPL/CL 32	20 to 1600 ^oC	20 ^oC
3.	Hot Air Oven		AES/ST/18	0 to 250 ^oC	10 ^oC
4.	Measuring Cylinder	Borosil	AESPL/CL/04	100 ml	NA
5.	Volumetric Flask	Borosil	AESPL/CL/05	1000 ml	NA
6.	Volumetric Flask	Borosil	AESPL/CL/06	500 ml	NA
7.	Volumetric Flask	Borosil	AESPL/CL/07	250 ml	NA
8.	Weight Box	SBSW	AESPL/CL/08	10 mg to 200 g	
9.	Volumetric Flask	Borosil	AESPL/CL/09	200 ml	NA
10.	Volumetric Flask	Borosil	AESPL/CL/10	100 ml	NA
11.	Volumetric Flask	Borosil	AESPL/CL/11	50 ml	NA
12.	Burette	Borosil	AESPL/CL/13	0 - 25 ml	1 ml
13.	Burette	Borosil	AESPL/CL/14	0 - 50 ml	1 ml
14.	Burette (Carbon)	Borosil	AESPL/CL/15	0 - 1.5 ml	0.005 ml
15.	Burette (Carbon)	Borosil	AESPL/CL/16	0 - 1.5 ml	0.005 ml
16.	Graduated Pipette	Borosil	AESPL/CL/17	0 - 1 ml	0.01 ml
17.	Graduated Pipette	Borosil	AESPL/CL/18	0 - 2 ml	0.01 ml
18.	Graduated Pipette	Borosil	AESPL/CL/19	0 - 5 ml	0.03 ml
19.	Graduated Pipette	Borosil	AESPL/CL/20	0 - 10 ml	0.03 ml
20.	Graduated Pipette	Borosil	AESPL/CL/21	0 - 25 ml	0.05 ml
21.	Bulb Pipette	Borosil	AESPL/CL/22	25 ml	NA

22.	Bulb Pipette	Borosil	AESPL/CL/23	50 ml	NA
23.	Separating Funnel	Borosil	AESPL/CL/24	500 ml	NA
24.	Conical Flask	Borosil	AESPL/CL/25	100 - 250 ml	10 ml
25.	Measuring Cylinder	Borosil	AESPL/CL/26	50 - 500 ml	5 ml
26.	Measuring Cylinder	Borosil	AESPL/CL/27	1 - 10 ml	0.2 ml
27.	Barometer	Borosil	AESPL/CL/28	720 - 800 mmHg	1 mmHg
28.	Weighing Balance	Dhona	AESPL/MT/114	0 - 200 g	0.0001 g
29.	Glass Thermometer	Kwality /-	AESPL/MT/29	-10 to 50 ^{o}C	1 ^{o}C
30.	Volumetric Pipette	Borosil	AESPL/VP/10/31	10 ml	
31.	Volumetric Pipette	Borosil	AESPL/VP/25/32	25 ml	
32.	Volumetric Pipette	Borosil	AESPL/VP100/33	100 ml	
33.	Measuring Cylinder	Borosil	AESPL/MC/250/34	20 to 250 ml	2 ml
34.	Measuring Cylinder	Borosil	AESPL/MC/100/35	100 to 1000 ml	10 ml
35.	Measuring Cylinder	Borosil	AESPL/MC/500/36	50 to 500 ml	5 ml
36.	Burette	Borosil	AESPL/Brt/10/37	1 to 10 ml	0.1 ml
37.	Glass Thermometer	Gera Research	AESPL/40	0 to 360 ^{o}C	2 ^{o}C
38.	Graduated Pipette	Borosil	AESPL/GP/41	0 -10	0.1 ml
39.	Muffle furnance	Thermotech	AESPL/CL/02	0-1200°c	1°c
40.	Hydrometer	Tel -Tru	AESPL/HYD/2/42	1.000-2.000	0.01
41.	Concrete Mixture	SBSW	AESPL/CM/1	--------	-------
42.	Planatary Mixture	SBSW	AESPL/PM/1	--------	--------

CERTIFICATIONS

ilac-MRA

NABL

National Accreditation Board for Testing and Calibration Laboratories
(A Constituent Board of Quality Council of India)

QCI

CERTIFICATE OF ACCREDITATION

ALLUMERA ENGINEERING SOLUTIONS PVT. LTD.

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2005

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

Khasara No. 61, Matiala Village, Uttam Nagar, New Delhi

in the field of

TESTING

Certificate Number TC-7246
Issue Date 18/05/2018 **Valid Until** 17/05/2020

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Signed for and on behalf of NABL

8907697010003000 1356

Anil Relia
Chief Executive Officer

Certificate

This is to Certify that

Allumera Engineering Solutions Pvt. Ltd.

49 A, Pocket 3, DDA Flats Bindapur, New Delhi, South West, Delhi - 110075, India

Laboratory:- Khasra No-61, Matiala Village, Uttam Nagar, New Delhi - 110059, India

Compliance with

Quality Management System

ISO 9001:2015

for the following scope:

Service Provider in the field of Laboratory Testing/Scientific Study of Materials, Sampling and Inspection of Commodities, Pre Delivery Inspection of Factory Made Materials, Independent 3rd Party Stage Wise Audit, Quality Management Services, Project Management Training of Site Staff & Investigation, Consultancy Services in the Field of Soil Investigation, Feasibility Studies, Engineering Design, Providing the Trained/Skilles Manpower & Engineers

Certificate No.	: QMS/05619/1217
Original Certificate Date	: 26-December-2017
Issue Date	: 26-December-2017
Expiry Date	: 25-December-2020

To check this certificate status visit:
"http://uasl.uk.com/certifiedorganization.html"

Authorised Signature

For **Quality Control Certification**

Head Office: 2nd Floor, Aman Market, Narela Mandi, Delhi - 110 040, India

UK Office: 1929, Chynoweth House, Trevissome Park, Truro - TR4 8UN, Cornwall, UK

Quality Control Certification accredited by UASL, UK
This certificate doesn't provide the certified organization with immunity from its legal obligations.

CREDENTIALS

KMEL/Misc./2017-18/0551 Date- 16th Nov'-17

To,
Allumera Engineering Solution Pvt. Ltd.
K-61, Matiyala Village, New Delhi-59

Subject: - Construction of Access Controlled 6 Lane Expressway from Km 00+000 (Kundli) to Km 83+320 (Manesar) in the State of Haryana on BOT (Annuity) basis (Balance Work) – "**Testing of materials"- Reg**.

Dear Sir,

With reference to the above cited subject, we are herewith sending the following materials sample for conducting the below mentioned tests;

A. Reinforcement Steel				
Sl. No.	Dia (mm)	Invoice No.	Cast/ Heat No.	Test to be conducted
1	25	89	17204755	Physical & Chemical
2	20	246	31722545	
3	16	05001004665	11723512	
4	12	050010003745	11723963	
5	10	050010003825	31723572	
B. Cement OPC 43 grade Ultratech 44th Week				
C. Soil for RE wall backfill from borrow area no. 11 Ch. 68+680 LHS				MDD, OMC, C& Phi, particle size distribution by hydrometric analysis 75 micron and 20 micron passing, PH value
D. Bitumen VG 30 IOCL Panipath				As given in IS 73

As this Project of National Importance and Time is the essence, we request you to give us the result at the earliest and same shall witness by Client & Independent Engineer.

Thanking you
For Kundli Manesar Expressway Limited

Authorized Signatory
(Vilas M. Misal)

PIIPL

Pan India Infraprojects Private Limited
Corp. off.: 20th Floor, A wing, Marathon Futurex, N M Joshi Marg, Lower Parel, Mumbai 400 013
T: +91 22 7108 4444 | F: +91 22 7108 4500

Regd. off.: 135, Continental Building, Dr. Annie Besant Road, Worli, Mumbai 400 018
CIN - U92412MH2007PTC171016

GKC
Inspiring the future

LOI Ref: GKCPL/HO/SC/17-18/2025/Allumera
Date: 28.09.2017

LETTER OF INTENT

M/s. ALLUMERA ENGINEERING SOLUTIONS PVT.LTD,
A-49,DDA flat, Pocket-III, Bundapur, Dwarka,
New Delhi- 110059.

Contact Person:Mr.Deepak Guptha,
Phone No: 8527745811,
Email ID:info@allumeraengineering.com.

Dear sir/madam,
Sub: Consultancy services for Conducting of Plate load test and submission of test reports for our Kodebad to Dhamtari Road Project, Chhattisgarh.

Ref: Your quote ref- AESPL/QTN/GKC/17-18/01 dated 20/09/2017.

With reference to the quote submitted and subsequent discussions with us, we are happy to place this LOI on you for the subject work, as per the terms detailed below:

1. The Rate schedule along with scope for the subject proposed works to be given to you, is attached as per Annexure 'A'.
2. Time is of essence for this contract and hence the party has to plan accordingly to ensure that the entire scope of their work is completed as per schedule agreed with Site SPM (Mr.Sivarakrishna-9109161633).
3. **Payment Terms:** 25% advance after mobilization to Raipur GKC site, 50% after collection of field data and Balance 25% after submission of test reports.
4. **Termination:** This LOI would stand terminated in the event of:
   Your non-mobilisation to Site as per requirements AND/OR not-meeting NHAI qualifying parameters.
5. This LOI would be converted into binding Work Order with detailed terms and conditions with your mobilization preparations at site and completion of all preliminary activities like mobilizing men and machinery.

This letter of Intent is being issued to allow you to complete all statutory and general formalities and prepare for mobilizing at site, based on point 4 as above.

GKC reserves the right to further negotiate in case of any scope changes, site conditions and client requirements.

Yours faithfully,
For GKC PROJECTS LIMITED

Authorized signature

GKC Projects Limited
ISO 9001 : 2015 || ISO 14001:2015 || OHSAS 18001:2007
CIN: U45200TG2004PLC043015
Regd. & Corp. Office : Sy. No.9 (P), CII Green Building Lane, HITEC City, Kondapur, Hyderabad - 500084, Telangana, India.
Ph : +91 40 44554545, Fax : +91 40 44554555 **www.gkcpl.com**

WELSPUN ENTERPRISES
INFRASTRUCTURE AND ENERGY

Ref: WEL/CON/2017/ 061

24th October 2017

To
M/S Allumera Engg. Solution Pvt. Ltd.
A-49, DDA flat, Pocket -111, Bindapur
Dawarka, Delhi-110052

Kind Attn.: Mr Chandan Kumar

Sub: - Reg. Testing of Construction Material.

Dear Sir,

We are sending herewith sealed samples of **construction material**. It is requested to test the samples as per relevant Indian standard & MoRTH specification. The detail of sample is given below.

S. No.	Material description	Invoice No.	Test required	Make
		TMT BAR		
1	08mm tmt bar	896	All test as per IS 1786	TATA
	10mm tmt bar	1073		TATA
2	12mm tmt bar	8130700434		RINL
3	16mm tmt bar	0896		TATA
	20mm tmt bar	0896		TATA
4	25mm tmt bar	9004892589		SAIL
5	32mm tmt bar	8130700435		RINL
		CEMENT		
6	OPC -43	Week-41	All test as per IS 269	Shree Cement
7	OPC -43	Week-41 & 41		Ultratech Cement
8	OPC -53	Week-41		Ultratech Cement
		ADMIXTURE		
9	Admixture	1034	Uniformity Test	Kunal-Conchem Pvt. Ltd. (PC50DS)

Welspun Enterprises Limited (Formely known as Welspun Projects Limited)
Welspun House, Kamala City, Senapati Bapat Marg, Lower Parel (West), Mumbai 400 013, India.
T : +91 22 6613 6000 / 2490 8000 F : +91 22 2490 8020
E-mail : companysecretary_wel@welspun.com Website : www.welspunenterprises.com
Registered Address: Welspun City, Village Versamedi, Taluka Anjar, District Kutch, Gujarat 370 110, India.
T : +91 2836 662222 F : +91 2836 279910
Corporate Identity Number: L45201GJ1994PLC023920

FLY ASH				
10	Fly Ash	DC/17-18/DL1/00687	All test as per IS : 3812	Metropolitan Distributor Pvt. Ltd.

PI submits the original test report at following address:-

Project Manager,

M/s Welspun Enterprises Ltd.,

H. No. 402, Pocket - E

Mayur Vihar Phase II, New Delhi – 91

Bill invoice shall be generated in favor of **M/S Gawar Construction Limited.** The payment shall be made by **M/S Gawar Construction Limited** as per agreed terms and conditions.

Thanking you,

For M/S Welspun Enterprises Ltd.,

Authorized Signatory

Enclosed: - Sample as above.

NV Project Consultancy Pvt. Ltd.
(Urban Planning, Highway & Bridges, Survey & Geo tech Investigation)
Plot No-358, Ground Floor, Niti Khand – I, Indirapuram, Ghaziabad – 201014
Tel: 0120 – 4101026, Email: infonvpcpl@gmail.com

Reference: NV/IDC-09/K-P/MU/001

To,

Date: 06th Feb 2018

M/s Allumera Enggineering Solutions Pvt. Ltd

Matiyala Industrial Area, Delhi

Sr. No.	Material	Test Parameters
1	Marble Stone	Dimension, specific gravity and hardness
2	Granite	Moisture, Dry Density, Specific Gravity, Water absorption, Porosity and compressive strength
3	Steel Tube	Mass per meter, Tensile Strength, Yield Stress, Elongation, flattening
4	Paver Block	Dimension, Water absorption, compressive strength
5	Ceramic tiles	Water absorption, Dimension, Thermal shock resistance, Breaking strength, Hardness
6	CC Tiles	Dimension, Flattening, perpendicularity, straightness, water absorption, wet transverse strength
7	Wood	Moisture, specific gravity
8	Brick	Water absorption, Dimension, Efflorescence, compressive strength

Kind Attention: Mr. S. N. Lal, Quality Manager

Dear Sir,

We are sending sealed samples as per below list. Please perform the tests as mentioned as per relevant IS standard and submit us the results at the earliest

Thanking you

GAWAR CONSTRUCTION LIMI
SF-01, JMD Gal
Sector-48, Sohna R
Gurugram - 122001 (Hary
Ph.: (0124) 4854
Fax : (0124) 485400
Web : www.gaw
E-mail : gcl@gaw

GAWAR
CONSTRUCTION LIMITED

An ISO 9001:2015 Certified Compan
CIN : U70109HR2008PLC037773

Ref: GCL/NH-24/LAB/18-19/05

Date: 06th Feb 2018

To,

M/s Allumera Enggineering Solutions Pvt. Ltd

Matiyala Industrial Area, Delhi

Kind Attention: Mr. S. N. Lal, Quality Manager

Sub.:- Testing of Constructions materials

Dear Sir,

Sr. No.	Material	Test Parameters
1	TMT 16mm dia	Tensile Strength, Elongation, Yield stress, mass per meter, Bend and Rebend
2	Coarse Aggregate (10mm and 20mm)	Gradation, water absorption, specific gravity, AIV, ACV,Soundness, LAA, 10% fines value, EI & FI, Deleterious content
3	Fine Aggregate	Gradation, water absorption, specific gravity, Soundness, Deleterious content
4	Bentonite	Moisture, Sand content, Marsh cone viscosity
5	Bitumen	Softening point, penetration, Flash and fire point, loss on heating
6	Bitumen core	Bitumen content

We are sending sealed samples as per below list. Please perform the tests as mentioned as per relevant IS standard and submit us the results at the earliest

With Regards

Ajay Pal Sharma

Material Engineer

M/S Gawar Construction limited

Enclosed: Sample as above

NEW INDIA STRUCTURES (P) LTD.
EPC Contractors
• ISO 14001 : 2004 • ISO 9001 : 2008
• OHSAS 18001 : 2007 certified company

Purchase Order

PO Reference	NIS/18 - 19/PO/736
Dated	12th April, 2018
To, **M/s Allumera Engineering Solutions Pvt. Ltd.** A-49 , DDA Flat, Pocket - III, Bindapur, Dwarka, New Delhi - 110059 **Lab Address** - Khasra no. - 61, Matiala Village Uttam Nagar, New Delhi - 110059 **GST No.** -07AAPCA2554H1ZK	**Contact person:** **Mr. Chandan Kumar** **Mobile No. - 9310347744** **Email Id - info@allumeraengineering.com**
Billing Address : **New India Structures Pvt. Ltd.** 1859 , Sec 23, Gurgaon 122017 **GST No** - 06AAACN4391G1ZJ	**Delivery Address :** **New India Structures Pvt. Ltd.** Narela Road in Bindrauli Village Sonipat. (HR). Store Incharge - Mr. Mathur - 7082114211 Project - Mr. M.R. Marwa - 7065559480
Reference	Your Offer Email Dated 12/04/2018
Details	Work Order for Road Roughness Test by bump integrator

With reference to your offer and discussion held with you we are herewith issuing this order for the work of following items

SNO.	ITEM	UNIT	QUANTITY	UNIT PRICE	TOTAL
1	Road Roughness Test by bump integrator machine as per IRC:SP:16-2004	Km.	90		
	TOTAL AMOUNT (INR.)				
	GST@18%				
	NET AMOUNT(INR.)				

Terms and conditions:-

1. **GST**: Inclusive@18% As per actual invoice submission.
2. **Retesting** - Retesting of work would be in same charges as above.
3. **Payment Terms** - Rs. 25,000/- as advance and balance would be paid after completion of work.
4. **Delivery of Report** - After one week of collecting
5. **Testing Terms** - AESPL will only test the finished road surface and submit the report to NIPSL and client & consultant explanation/welfare regarding machine is in scope of AESPL.
7. **Legal Jurisdiction** - The Purchase order is subjected to jurisdiction of New Delhi State Court.

For New India Structures Pvt. Ltd. | Agreed & Accepted By

Authorized Signatory | Authorized Signatory.

Corp. Office : Shri Sai Complex, Plot No. 28/1/2, First Floor, Kapashera Chowk, Opp. PWD Office, New Delhi-110037
Tel : +91-11-40686530, 41008206, Email : newindiastructures@gmail.com
Regd. Office : Khasra No. 99, 126, 127, 128, Ground Floor, Opp. Police Station, Kapashera, New Delhi-110037
CIN No. U74899DL1981PTC043739

इंडियन ऑयल कॉर्पोरेशन लिमिटेड
बरौनी रिफ़ाइनरी, डाकघर:बरौनी ऑयल रिफ़ाइनरी,
जिला : बेगूसराय, बिहार-८५१११४
Indian Oil Corporation Limited
Barauni Refinery, P.O.:Barauni Oil Refinery
Distt:Begusarai, Bihar-851114
Web site:www.iocl.com
Phone :06243-22383-86(4 Lines)

रिफ़ाइनरी प्रभाग

Refineries Division

Ref.No.BR/CL-MN/25361520/126 | 120

Date: 14.06.2018

To,

Allumera Engineering Solutions PVT LTD.,
A-49, DDA Flat, Pocket-III, Bindapur
Dwarka,New Delhi-110059
Ph. No.-011-25633149, Mobile-093103-47744
e-mail ID-info@allumeraengineering.com
chandan@allumeraengineering.com

Kind attension-Mr. Chandan Kumar

Sub:Testing of construction material for the job "Excess earth removal, area dressing & hard surfacing at various locations in Barauni Refinery Township (Part-B) (Work Order No25361520, dated-23.01.2018)."

Dear Sir,

We are enclosing herewith sealed and duly signed samples of sand, coarse aggregate, brick, cement and mortar. You are requested to carry out necessary tests as per relevant IS codes including cement sand ratio of mortar and compressive strength of concrete cubes. The test results may please be communicated to the undersigned at an earliest through registered post.
The necessary testing charges in respect of above may be accepted through M/s Kumar Sanjay, AT & PO-Mahna, AT & PO-Mahna,Begusarai-851210,India.

Thanking you,

Yours truly,
14.06.2018.
Ashish Ranjan
Maintenance Manager-Civil
Room No.-108
Estate office
Barauni Refinery Township
Begusarai-851117
Bihar
India

CC: M/s Kumar Sanjay : With a request to deposit the testing charges to Allumera Engineering Solutions PVT LTD., A-49, DDA Flat, Pocket-III, Bindapur, Dwarka,New Delhi-110059

रजि.ऑफिस : जी-9, अली यावर जंग मार्ग, बांद्रा (पूर्व), मुंबई - 400051 (इंडिया)
Regd. Office: G-9, ALI YAVAR JUNG MARG, BANDRA (EAST) MUMBAI-400 051

Independent Engineer Services for 4 Laning of Meerut-Bulandshehr section of NH-235 (New NH-334) in the state of Uttar Pradesh
Project Office: Plot No. C-120 • Preet Vihar Colony • Near HPDA office • Delhi Road • Hapur - 245101 • Uttar Pradesh • India
Tele: 0122-2306300 & +91-81466-55777 | Email: ksingh3@systra.com and ptiwari@systra.com.
SAI SYSTRA GROUP

Ref. No: SAI/217008/MB/FEPL/2018/536 Dated- 25.06.2018

To,
Mr. D K Srivastava
Vice President
Authorized Representative
M/S Freedom Point Expressway Pvt. Ltd
Near Mulayam Singh Yadav Medical College,
Village-Panchi, Tehsil- Meerut Sadar.
Meerut 245206, Uttar Pradesh.
Ph: 0121-2884144/55

Sub: Consultancy services for Independent Engineer Services for 4-laning of Meerut-Bulandsahar Section of NH-235 (New NH-334) from km 8.800 (Design Chainage 8.800) to km 66.482 (Design Chainage 73.512) (total length 61.19 km excluding existing 3.522 km Hapur Bypass) in the State of Uttar Pradesh under NHDP Phase-IV on Hybrid Annuity DBOT Mode: Third party Lab Approval of M/s Allumera Engineering Solutions Pvt. Ltd.-reg

Ref: Concessionaires letter No: FEPL/ /MB/IE/2018/620 dated: 22.06.2018

Dear Sir,
We refer to the submission of credential of M/s Allumera Engineering Solutions Pvt. Ltd., for conducting third party test of materials, for our review and concurrence.
Profile of above laboratory was reviewed and found acceptable & concurred. Hence third-party test of materials may be arranged at the proposed laboratory.

This is for your information.

25.06.2018
For Shailendra Kumar
(Authorized Signatory)
SAI Consulting Engineers Pvt. Ltd.

Encl: Nil

Copy to: The Project Director, PIU-NHAI, A-1Vaishno Dham, Near Gayatri Heights, Kankerkhera, NH-58, Meerut.

SAI Consulting Engineers Pvt. Ltd.
An ISO 9001 Company
Regd. Office : Block-A • SAI House • Satyam Corporate Square • B/h. Rajpath Club • Bodakdev • Ahmedabad - 380059 • INDIA
Phone : +91-79-6614 2600 | E-mail : mail@saiindia.com | Web : www.saiindia.com | CIN : U74140GJ1983PTC005900

RKC
M/S Ram Kumar Contractor
#636/8, Near Telephone Exchange, Model Town,
NARWANA-126116, Distt. Jind (Haryana)
E-mail : goyalkrishan01@gmail.com

Spl. In : Bridges, Street structures, Box Pushing, Prestressing, ROB, RUB & all kinds of Earth works etc.

Ref. No. RKC/DK/2017-18/263 Dated 30/6/2018

To,

ALLUMERA ENGINEERING SOLUTION PVT. LTD

K-61, Matiyala Village, New Delhi – 110059

Tel. – 011-25633149

Email Id. – info@allumeraengineering.com

Subject : Improvement of T Junction Near Dhaula Kuan Metro Station Including Widening Of National Highway From Dhaula Kuan To End Of Junction On NH-8 And Improvement Of T Junction Near defence Area Including Widening Of National Highway Up To Defence Area On NH-8 And R&R Hospital Link Underpass in the state of Delhi on EPC Mode. – **Regarding Testing of Soil for RE Wall .**

Respected Sir,

Please find herewith the Soil sample for conducting of all physical Test of Soil for RE Wall use purpose test done as per relevant specification inclusive Direct Shear Test.

The details of materials as are under:-

Kindly you may send the above test report on address undersign.

Ram Kumar Conractor

#636/8, Near Telephone Exchange, Model Town,

NARWANA – 126116, Distt. – Jind (Haryana)

Email ID – rkcdk2017@gmail.com,

goyalkrishan01@gmail.com

Thanking you in anticipation.

For M/s Ram Kumar Contractor

(Dhaula Kuan, New Delhi)

USHA SPUN PIPES

R.C.C. Spun Pipes with Collars NP 2, NP 3, NP 4 Class &
S.F.R.C.C. Man Hole Covers & Frames
Specialists in : Socket & Spigot Pipes with Rubber Ring Joint.

Works :
Plot No. 89, Industrial Area
Richhai, Jabalpur (M.P.)

Office :
45, Mukand Lal Katyal Market,
Near Police Station, Tilak Nagar, New Delhi-18

Ref. No. USP/5/18

Dated 8-5-18

To,
Allumera Engineering Solutions Pvt Ltd.
K-61 Matiala Village
New Delhi - 59

Sub:- Mix Designe M 30

Dear Sir,
Please make a mix design M30 Grade with following materials

1. Cement - OPC M.P. Birla Concream 43 Grade
2. Coarse Aggregate -- Source - AMJHER (JABALPUR)
   20mm & 12.5mm Grade
3. Fine Aggregate -- Stone Dust Source AMJHER (JABALPU
4. Slump 0 20 mm

For Usha Spun Pipes
Dinesh Sharma
QCF

Ref: - CTHPL/SITE/AESPL/27 29th June, 2018

To,

M/s Allumera Engineering Solutions Pvt. Ltd.
Khasra No-61, Matiala Village,Uttam Nagar,New Delhi-110059
Contact-011-25633149
Mobile No-+91-9953205557

Sub: Four Laning of Chikhli-Tarsod (PKG-IIA) Section of NH-6 in the State of Maharashtra under NHDP Phase – IV on Hybrid Annuity Pattern from Km. 360.000 to Km.422.700
Reg. Submission of Samples of Cement, Fly ash, Chemical Admixture, Water & Aggregates

Dear Sir,

With reference to above citied subject we are intending to carry out third party testing of following samples to be used in our project work.

Sr. No.	Description of Samples	Sample ID	Make/Brand/Source	Quantity
1	OPC 43 Grade Cement	18/CEM/01	ACC	1 bag
2	OPC 43 Grade Cement	18/CEM/02	Orient/Birla A-1	1 bag
3	OPC 53 Grade Cement	18/CEM/03	ACC	1 bag
4	OPC 53 Grade Cement	18/CEM/04	Orient/Birla A-1	1 bag
5	Fly ash	18/FLY/01	Bhusawal Thermal Power Station	15 kg
6	Chemical Admixture	18/ADM/01	Rheoplast PC2	1 Litre
7	Chemical Admixture	18/ADM/02	ATPL (AT-CARPOL 579)	1 Litre
8	Water	18/WTR/01	Domestic Supply,	2 Litre
9	20 mm Size Aggregate	18/CA20/01	Shristhi Stone Crusher,Sakegaon	2 bags
10	10 mm Size Aggregate	18/CA10/01	Shristhi Stone Crusher,Sakegaon	2 bags
11	Crusher Sand	18/CS-FA/01	Shristhi Stone Crusher,Sakegaon	2 bags

Sample of these materials are collected from Sources and submitted herewith for testing.
Therefore you are requested to provide us the test results/certificate for all Physical & Chemical Test as per relevant code or any international standard.
Thanking You,

Yours faithfully,
For **Chikhali-Tarsod Highways Private Limited,**

(Authorized Signatory)
Encl: Samples.
C.C:- For favor of information please-
1. The Project Director, NHAI, PIU - Jalgaon
2. The Team Leader,M/s Aarvee Associates.

Khasra no-61,Matiala Village,Uttam Nagar New Delhi-110059
e-mail info@allumeraengineering.com 011-25633149
Web-allumeraengineering.com

TES

Theme Engineering Services Pvt. Ltd.
Theme Engineering Services Pvt.Ltd.,
C/o Mr. S. Ramesh Chowdhary, S/o S. Bhimalingappa,
Door No.160/11D, Behind Sudha Hotel, L.L.C Colony Road,
Prashanth Colony, Cantonment, Bellary, Karnatka - 583104
Email Id: hospetthemenh63@gmail.com

TES/AE/Hos-Bel-KNT/AP Border/GECPL/2017/316 Date: 04.07.2018

To,
The Project In-charge,
M/s Gammon Engineers & Contractors Pvt. Ltd.,
Gonal Village (Bhuwanhalli)
Kurekuppa Post, Hospet Taluk,
Bellary District,
Karnataka-583123

Subject: Consultancy Services for Authority's Engineer for Supervision of Project of Four laning of Hospet - Bellary – Karnataka / AP Border from Km.280.080 (Design Ch.) to Km.375.450 (Design Ch.), design length 95.370, NH-63 in the State of Karnataka under NHDP Phase-IVB on EPC mode – **Submission of Credentials of M/s. Allumera Engineering Solutions Pvt. Ltd. for the Third party/ Independent Laboratory for the Materials Testing.**

Reference: 1. Your letter no. GECPL/9501/Hos-Bel-Kar/02/2017/707 dated 28.06.2018
2. Our letter no. TES/AE/Hos-Bel-KNT/AP Border/GECPL/2017/309 dated 20.06.2018
3. Your letter no. GECPL/9501/Hos-Bel-Kar/02/2017/682 dated 13.06.2018

Dear Sir,

We have reviewed the documents submitted vide your letter cited at 1 above in reply to our letter cited at 2 above regarding source clearance for M/s. Allumera Engineering Solutions Pvt. Ltd as Independent Laboratory for third party testing and found in order. Thus, we hereby grant consent for M/s Allumera Engineering Solutions Pvt. Ltd. as approved Independent Laboratory for third party testing of materials in subject project subjected to the following conditions:

1. All material samples shall be collected jointly by the representatives of Contractor and Authority's Engineer with proper RFI and signed sample cards.
2. The material samples shall be submitted to the Independent laboratory by the Contractor under Contractor/AE's letter either through courier service or by hand along with Authority's Engineer representative.
3. All costs to be incurred towards submission of samples, testing and reports shall be borne by the Contractor.
4. All test reports must bear the NABL symbol.

Thanking you.

Yours faithfully,
For Theme Engineering Services Pvt. Ltd.

04/07/2018

(G. Raja Rao)
Team Leader

Copy to: 1. The Project Director, PIU-Hospet, NHAI, Hospet.
2. Sh. G.K. Bagda, Authority Engineer, Theme Engineering Services Pvt. Ltd., Jaipur.

Head Office: B-24, Gokul Vatika, Jawahar Circle, Jaipur-302018, Ph. No. +91-141-2724495-97 Fax- +91-141-2724491
E mail: thenpr@themeengineering.com, **Website:** www.themeengineering.com

TRPL
TRIL ROADS PVT. LTD.

TRPL/UCHIT/JV/2018-19/1109 18th Sep 2018

To,
Contractor's Representative
TPL-HGIEPL (JV)
Chittorgarh – Udaipur Road project,
Camp at Km-137(NH76), Near Bharat Benz Service Station
Village-Dawa,Taluka –Vallabhnagar
Udaipur District-313022

Sub: Six Laning of Chittorgarh – Udaipur Section of NH-76 from Design Chainage 214+870 to Km 308+370 in the State of Rajasthan (Length 93.50 Kms) on DBFOT (Toll) Mode under NHDP Phase-V (Package-III) – **Credential of Third-Party Lab-M/s Allumera engg. - Reg.**

Ref: Your letter no. TPL HGIEPL JV/KUA III/1047, Dt. 10.09.2018

Dear Sir,

With reference to your letter referred above and based on review of submitted Credentials & enclosed list of NABL accredited testing facilities, we have no objection for M/s Allumera Engineering Solution Pvt. Ltd. New Delhi as Third-Party Independent Lab for this Project.

This is for your information and further needful please.

For **TRIL ROADS PVT.LTD.**

TRIL Roads Pvt. Ltd.

Chandrashekhar N. D.
Client's Engineer

Cc: CEO, UEPL – For Information please.

TPL-HGIEPL JV
RECEIVED
Date 19-9-18 Time 17:30
Inward No. .....
Signature:-

MCEPL

Vendor Name & Address
M/s. Allumera Engineering Solutions Pvt Ltd.
A-49, DDA Flat, Pocket-3,
Bindapur, Dwarka
New Delhi-110059
Tel: 011-25633149, 9310347744
Contact Person: Mr....

Work Order
Project: Delhi Gurgaon Expressway
WO No: MCEPL/IDFC/2018-19/ 75
Date: 20.07.2018

Please provide your service for the following description, subject to the Terms and conditions mentioned herein.

Sl.No	Item Description	Quantity	Unit of Measurement	Unit Rate (INR)	Amount (INR)
1	Benkelman Beam Deflection test of 6/8 lane of Delhi Gurgaon Section of NH-8 from Km.14.300 to Km.42.000 as per IRC 81:1997- Guidelines.	1	LS		
				Sub Total	
				GST @ 18%	
				Total	

Sl.No	Terms and Conditions	WO No: MCEPL/IDFC/2018-19/
1	Payment terms:	100% payment will be released after getting satisfaction of test results of IC/NHAI
2	Tax Invoice:	Your Tax Invoice should clearly mention your GST / VAT / TIN / Cess Registration nos. etc. with mandatory Tax declaration.
3	GST/VAT/Excise	Above mentioned prices are inclusive of all taxes
4	Custom Duty/Octroi	All inclusive
5	T.D.S / W.C.T.	Shall be deducted if applicable
6	Delivery	IGI Toll Plaza Building, opp. Radisson Hotel, Mahipalpur, New Delhi -110037
7	Transportation / P&F	Inclusive
8	Liquidatrd Damages	Not applicable
9	Deliverables	Benkleman Beam Deflection test using the conversion equation as per IRC 81:1997- Guidelines. for each lane and average values for the carriageway for both directions of travel.
10	Penalty	1.Recover damages @ 2% (two percent) of the value of the order per week (or part thereof) for which the delivery remains in arrears, for items not delivered as specified in the work order. 2.Cancel or amend the order either in full or in part and to purchase the supplies from any other source. 3.Make any other alternate arrangement to meet the exigencies of our work.
11	DLP period	Not applicable
12	Consumables / Spare parts	All inclusive
13	Bill to Address	MCEPL,IGI Toll Plaza Building,Mahipalpur,New Delhi - 110037
14	Ship to Address	Above mentioned project site
15	Civil & Electrical work	Not applicable
16	Performance quality check:	As per satisfaction of IC/NHAI.
17	Arbitration:	To the best of their ability, the parties hereto shall try and endeavour to settle and clarify all disputes arising in connection with the order by discussions and with the intention to resolve the matter amicably.
18	Jurisdiction:	The order, whenever issued, shall be subject to the exclusive jurisdiction of the courts at Delhi only.
19	Other terms:	There will no extra cost to M/s.MCEPL other than mentioned in the above work order.

Kindly confirm acceptance of the same.

For Millennium City Expressways Limited

Authorised Signatory

Millennium City Expressways Private Limited

Corporate Office : IGI Toll Plaza Building, Opp. Radisson Hotel, Mahipalpur, New Delhi-110037
Tel.: 011-65366662, 65366668 E-mail: mailadmin@mcepl.org
Corporate Identity Number : U45204DL2014PTC266306

Intertek

apco INFRATECH PVT.LTD.
CIN: U51432UP1992PTC013969

Ref No: APCO/SITE/61

Date 05.07.18

To,

M/S Allumera Engineering Solution Pvt. Ltd.

Khasra No. 61,Matiala village Uttam Nagar

New Delhi- 110056 3

Mob. No. 9318347744

Sub: - 4 Laning of Meerut–Bulandshahar section of NH-235 from Km 8.800 (design chainage Km 8.800) to Km 66.482 (design chainage Km 73.512) in the state of Uttar Pradesh on Hybrid Annuity Mode- Third Party testing of Dowel Bars

Sub:- Testing of 36 mm Dia Round bar

Dear Sir,

We are herewith sending the TMT bars Sample which jointly collected with I.E. representative.

You are requested to carry out the Physical & chemical test at the earliest. Details are as under.

S.No.	DIA of Round BARS	Source	Test Required	INVOICE No.
1	36 mm	RINL	Physical & Chemical test as per IS:432 grade 1	7190800701

Thanking you

APCO Infratech Pvt. Ltd.

(Project Manager)

Tarun kumar Dey

Corporate Office :- Universal Trade Tower, 4th Floor, Sector 48-49, Sohna Road, Gurugram -122 101 (Haryana) Phone: +91-124-4417300, Fax : +91-124-4417349
Head Office :- APCO House, B-9, Vibhuti Khand, Gomti Nagar, Lucknow - 226 010 (U.P.)
Phone:- +91-522-4036111-20, 2720520-21, Fax: +91-522-4036100, E-Mail: admin@apcoinfra.com, Website : www.apcoinfra.com

SOME OF OUR VALUABLE CLIENTS

PIIPL
Pan India Infraprojects Private Limited
Corp. off.: 20th Floor, A wing, Marathon Futurex, N M Joshi Marg, Lower Parel, Mumbai 400 013

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Gawar Construction Ltd

GKC

TRPL
TRIL ROADS PVT. LTD.

TATA
TATA PROJECTS LIMITED

SAL
SYSTRA GROUP

IVRCL

WELSPUN ENTERPRISES
INFRASTRUCTURE AND ENERGY

apco
INFRATECH PVT.LTD.
CIN: U51432UP1992PTC013969

Gammon

Theme Engineering Services Pvt. Ltd.
Theme Engineering Services Pvt.Ltd.,
C/o Mr. S. Ramesh Chowdhary, S/o S. Bhimalingappa,
Door No.160/11D, Behind Sudha Hotel, L.L.C Colony Road,
Prashanth Colony, Cantonment, Bellary, Karnatka - 583104
Email Id: hospethement63@gmail.com

KCC Buildcon Pvt. Ltd.
Dedication to Quality

NV Project Consultancy Pvt. Ltd.
(Urban Planning, Highway & Bridges, Survey & Geo tech Investigation)
Plot No-358, Ground Floor, Niti Khand – I, Indirapuram, Ghaziabad – 201014
Tel: 0120 – 4101026, Email: infonvpcpl@gmail.com

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CHETAK
Enterprises Ltd.

एन बी सी सी
NBCC

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S P Singla Constructions Pvt. Ltd.
Building infrastructure for the future...

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devcon

AN ISO 9001 : 2008 COMPANY
VARAHA INFRA LTD.

TAKENAKA

J. KUMAR
INFRAPROJECTS LIMITED

ACC
CONCRETE

Srex Power

AYUSH PROCON PVT LTD

RAMBOLL

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