

भारतीय विमानपत्तन प्राधिकरण AIRPORTS AUTHORITY OF INDIA



Ref. No.: AAI/PAT/SM(E-C)/Lab-Emp./Distr./478-492

Date: 30.12.2020 ISO 9001-2008
Certified Airport

Sub: Empanelment of Material Testing Laboratory with Airports Authority of India.

1. M/s Johannes Kepler Testing & Research Centre (HICM) Pvt. Ltd., Patna is included in the approved list of material testing laboratories along with the testing facilities available/recommended as detailed below: -

Name of Laboratory & Address	M/S Johannes Kepler Testing & Research Centre (HICM) Pvt. Ltd., Priyadarshi Nagar, DPS More, Bailey Road, Patna-801503
Phone/ Email/ Website	Contact no.- 6206716852, 7280011100, 7280011101 Email: Johannes.ktrc2018@gmail.com Service.jktrcpatna@gmail.com Website: www.jktrc.com
Laboratory Recommended for following tests	<ol style="list-style-type: none">1. Cement (OPC/PPC)- Insoluble residue, Loss on Ignition, Sulphuric anhydride, Consistency, Compressive Strength, Density, Fineness, Soundness, Initial Setting Time, Final Setting Time2. Soil- Proctor Density (Light & heavy Compaction), Atterberg's limits, Density (Core Cutter & Sand Replacement), CBR (Soaked, unsoaked), Free Swell Index, Dry shrinkage Test, Grain Size analysis, Moisture Content, Specific Gravity, Permeability, pH value, sand Evaluation, Triaxial Shear .3. Admixture- Dry Material Content, Ash Content, Relative Density, Chloride, Bleeding test, Compressive Strength, Flexural Strength, Setting Time (Initial & final), Slump.4. Water (drinking purpose)- Acidity as CaCo3, Alkalinity as CaCo3, Calcium, Chloride, Conductivity, Fluoride, Organic Material, Inorganic material, Iron, Magnesium, Odour, Phosphorus, pH, Sulphate as SO4, TDS, Total Hardness, Total Suspended Solid, Taste, Turbidity.5. Water (construction purpose)- Acidity, Alkalinity, Chloride, Organic Materials, Inorganic Materials, pH, Sulphate as SO3, TDS, Total Suspended Solid.6. Coarse aggregate- Aggregate Impact Value, Bulk Density, Coal & Ignite Test, Crushing Value, Deleterious materials clay Lump test, Flakiness, Los Angeles Abrasion value, Materials finer than 75 mic, Sieve analysis, soundness by Na2So4 & Mgso4, Specific Gravity, 10% Fine Value, Water Absorption, Elongation Index.7. Fine aggregate- Bulk Density, Bulking of sand, Deleterious materials, Organic Impurities, Sieve

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- Analysis, Silt Content, soundness by Na₂So₄& Mgso₄, Specific Gravity, Water Absorption.
8. Bricks (Burnt Clay/Fly ash)- Compressive Strength, Water Absorption, Efflorescence, Dimensions.
 9. Concrete Cube- Compressive Strength, Mix design, Concrete Permeability Test.
 10. Concrete Beam- Mix design, Flexural strength.
 11. Paver block- Compressive Strength, Water Absorption, Abrasion Resistance, Flexural Strength, Dimensions.
 12. TMT Bar/ Structure Steel/GI Pipe – Brinell Hardness, Rockwell Hardness, Impact Test Charpy, Elongation, Mass, Tensile Strength, Bend Test, Re-Bend Test, Yield Stress.
 13. Aluminium Alloys- Chromium, Cobalt, Copper, Iron, Lead, Manganese, Nickel, Silicon, Titanium, Vanadium, Zinc.
 14. Carbon and Low Alloy Steel- Aluminium, Boron, carbon, Chromium, Cobalt, Copper, manganese, Molybdenum, Nickel, Niobium, Phosphorus, Silicon, Sulphur, Titanium, Tungsten, Vanadium.
 15. GSB- Atterberg's limits, CBR (soaked), AIV, Proctor Density, Sieve Analysis, Water Absorption.
 16. WMM- Atterberg's limits, Combined FI&EI, Impact value, Los Angeles Abrasion value, MDD, OMC, Sieve Analysis, Water Absorption.
 17. Bituminous Concrete- Bituminous Core Density, Cleanliness, AIV, Combined FI&EI, Job Mix DBM/BM/BC, Sieve Analysis, Soundness by Na₂So₄&MgSo₄, Sp. Gravity, Stripping Value, Marshal Stability, Water Absorption.
 18. Bitumen /Modified Bitumen- Bitumen Content, Flash and Fire Point, Hardness, Sp. Gravity, viscosity, Test on Residue, Softening Point, Penetration, Ductility, Solubility.
 19. Emulsion- Coagulation of Emulsion, Coating Ability and Resistance, Miscibility with water, Residue by Evaporation, Residue on 600 mic., Storage Stability, Viscosity.
 20. Tiles/Ceramic Tiles- Breaking Strength, Chemical Resistance, Craze Resistance, Dimensions, Resistance Thermal Expansion, Scratch Hardness, water Absorption.
 21. Fly Ash- Comp. Strength, Fineness, Soundness.
 22. Stone/Kota/Granite/Lime Marble-Comp. Strength, Hardness, Sp. Gravity, Water Absorption.
 23. Bentonite- Liquid Limit, Moisture Content, pH, Plastic Limit, Sand Content, Swelling Power.
 24. Wood and wooden Product-Moisture Content, Dimensions.
 25. Non-Destructive Test (NDT)- Rebound Hammer, Concrete Core Test & Ultrasonic Pulse Velocity.

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2. The material testing laboratory is approved base on inspection reports/recommendations of the field unit.
3. Presently, the NABL accreditation certificate of the laboratory is valid upto 02.08.2022 for testing. The field units must ensure before sending materials/samples for testing that the laboratory is equipped to carry out required test as per specifications and has valid NABL accreditation certificate on the day of submission of test samples/conducting final tests.
4. Apart from the approved laboratories, services of Govt. Engg. Colleges, IITs, CRRI, National Council for Cement & Building Materials, etc. may be availed, wherever available.
5. The empanelment shall remain valid upto 29.12.2022 or till the validity of NABL accreditation, whichever is earlier. However, in any case any problem is faced by any Region/Station, the same may be brought to the notice of Department of Structure for necessary action.
6. Updated list of empanelled material testing laboratories, region wise is placed on AAI website at link : www.aai.aero=> Public Information=>Public Notices.

This issues with the approval of competent authority.


(L.B. Singh)
Sr. Mgr. (Engg.-C)
JPNI Airport, Patna

N.O.O:

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- 7-11. Regional Executive Director, AAI-NR/WR/ER/SR/NER
Delhi/Mumbai/Kolkata/Chennai/Guwahati.
- 12-13. Airport Director, AAI-Kolkata/Chennai.
14. Incharge, IT, AAI, JPNI Airport, Patna]- with request to upload on AAI website as mentioned in para-6 above.

Copy for favour of information please:

1. PS to member (pig.), AAI, R.G. Bhawan, New Delhi.