



भारत सरकार  
कार्यालय अपर महानिदेशक (भोपाल)  
केन्द्रीय लोक निर्माण विभाग



भूतल, निर्माण सदन, 52-ए, अरेरा हिल्स, भोपाल - 462011 (म.प्र.)

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कार्यालय आदेश

विषय : Approval of Stellar Test House Laboratory,G-68,Sector-63,Noida

In exercise of power vested as per para 5.7.2 (SOP 5/16) and OM NO DG/SOP/24 dt. 03.09.2021 of CPWD works manual-2022, ADG (Bhopal), Bhopal hereby approves the material testing laboratory mentioned below for testing of building and Road construction material (List of material and scope as per table below) to be used in various ongoing and upcoming projects/works under jurisdiction of ADG (Bhopal), Bhopal.

Name of Laboratory	Address
Stellar Test House Laboratory,G-68,Sector-63,Noida	Stellar Test House Laboratory,G-68,Sector-63,Noida (UP)-201301

**List of Material and Scope of Test-(As per scope of accreditation).**

Sr. no.	List of Material	Scope of Test
1.	Reinforcement	Chemical :Carbon, Manganese, Phosphorous, silicon, Sulphur,Chromium,copper,Nickel,Nitrogen,Molybdenum. Mechanical :Bend test, Elongation test, Re-bend, Tensile strength, weight per meter, yield strength.
2.	Cement	Chemical :Loss of ignition, Magnesium oxide, Insoluble Material, Sulphuric Anhydride,silica,sulphur,Chloride, Iron,Calcium,Allumina. Mechanical :Standard Consistency, Compressive Strength, Fineness by Blain's Air permeability, Final setting time Initial Setting Time, Soundness by Le-Chatelier,Density,soundness.
3.	Bricks	Compressive strength, Efflorescence, water absorption, dimension.
4.	Ceramic tiles & Glazed Tiles	Breaking strength, Dimension, Modulus of rupture, water Absorption,Crazing resistance,Bulk density,flatness,Impact resistance,Scratch hardness,Thermal shock resistance.
5.	Coarse aggregate	Chemical : Alkali Reactivity, Chloride,Sulphate. Mechanical :Material finer than 75 micron, Bulk Density, Crushing Value, Elongation index, Flakiness,abrasion, Impact value, Sieve Analysis ,Stipping value, Specific Gravity, Water Absorption.

6.	Fine aggregate	Chemical :Alkali Reactivity, Soundness, Organic Impurities. Mechanical :Bulking of Sand, Moisture content, Sieve Analysis, silt content, Specific Gravity , Water Absorption.
7.	Soil	Chemical: All types as per Scope. Mechanical:CBR, Free swell index, Grain size Analysis ,Heavy Compaction (O.M.C.) Heavy Compaction (M.D.D.) Light Compaction- Maximum Dry Density (M.D.D.) Light Compaction (O.M.C.), Liquid Limit, Moisture Content, Plastic Limit, Shrinkage Limit,Field density.
8.	Admixture	chemical :pH Value, Relative Density, Ash content, Dry material, Chloride ion content.
9.	Non Destructive test on Concrete	Rebound hammer, ultrasonic pulse velocity,Carbonation test,Pile integrity test,Crack depth measurement,,Half cell potential difference test,cover depth.
10.	Concrete Core	Compressive strength
11.	Paving block	Compressive strength, Water Absorption,Abrasion resistance,Dimension,Flexural Strength,Tensile strength,Dimension.
12.	Chequered cement concrete tile	Water Absorption, Wet Transverse strength, Resistance to wear.
13.	Wooden Flush,Glazed,GRP,FRP door	Glue Adhesion Test, Knife Test, End Immersion, Impact indentation,Misuse test,Slamming,buckling,Dimension,Screw withdrawal strength,shock resistance testFlexural test
14.	Plywood	Moisture Content, Density, Resistance to Heat, ph Value. Modulus of rupture,modulus of elasticity,water resistance,Dimension.
15.	Prelaminated particle/HDF/MDF Board.	Density,Modulus of rupture,Moisture content,resistance to stain/cigerrate burn/steam,Screw withdrawal strength,tensile strength,swelling.
16.	Water for Construction(Chemical)	pH Value, Total suspended & Inorganic Solids,Organic solids, Acidity (Total) as , Alkalinity (Total). Total Hardness CaCO <sub>3</sub> , Chloride as Cl, Sulphate as So <sub>3</sub> .
17.	Aluminium	Anodic coating
18.	Hardened Concrete	Mechanical: Flexural Strength,split tensile strength,water permeability,Initial surface absorption. chemical:Chloride,sulphate.
19.	Vitreous Sanitary appliance.	Chemical:Chemical resistance,Resistance to staining.
20.	GI Sheet	Zinc coating.
21.	Stainless Steel	Chemical: Carbon, Manganese, Phosphorous, silicon, Sulphur,Chromium,copper,Nickel,.
22.	Alluminium section	Powder coating,Anodic coating
23.	AAC Block	Compressive strength,Density,Dimension,Drying shrinkage,moisture,Thermal conductivity.
24.	Bitumen Emulsion	Coagulation,Miscibility with water,Residue on 600 micron sieve,test on residue,storage stability after 24 hrs.
25.	Bitumen Mix	Binder content,density,flow value,Marshall stability,Stripping value,density,thickness.
26.	GSB/WMM	Gradation,Impact value,CBR,Liquid Limit,MDD,OMC,Plastic Limit,water content.

27.	Hollow/solid Concrete Block	Compressive strength,Density,Dimension,drying shrinkage,water absorption,moisture movement.
28.	Kerb Stone	Dimension,Transverse strength,water absorption,compressive strength.
29.	Preformed Foam Cellular Concrete Blocks	Density,Compressive strength,Dimension,Thermal conductivity,water absorption.
30.	RCC Pipes.	Hydro static pressure,Dimension.
31.	Tile Adhesive	Shear adhesion,Slip,Tensile adhesion strength,deformable adhesive,Adjustment time.
32.	Water Proofing Compound	Chloride as (Cl),water permeability,setting time.
33.	Structural steel	Tensile Strength,Yield stress,mass,dimension. Chemical: Carbon, Manganese, Phosphorous, silicon, Sulphur,Chromium,
34.	PTMT bath fitting	Drip proofness test,hydraulic pressure test,Resistance to residue chlorine,thermal shock test,Thickness.
35.	PVC Water Tank	Dimension(Capacity),Flexural modulus,Resistance to deformation,resistance to impact,tensile strength,top load resistance.

1. The above approval is for a period of one year from the date of issue of this order or validity of accreditation issued as per ISO/ IEC 17025 by the accreditation body operating in accordance with ISO/ IEC 17011 whichever is earlier.
2. The approval will automatically lapse after end of one year or expiration of accreditation issued as per ISO/ IEC 17025 by the accreditation body whichever is earlier from issue of this letter.
3. Approval can be withdrawn prematurely without assigning any reason on complaints if found true or uncalled for action of the lab.
4. They shall have valid calibrations certificate from accreditation body operating in accordance with ISO/ IEC 17011
5. CEs, SEs, EEs and AEs are required to ensure validity of accreditation of Laboratory and valid calibrations of equipments before sending materials/ samples for testing to approved Laboratory.
6. The approval does not absolve the executive/supervisory officers concerned of their responsibility of exercising necessary checks on performance of the Laboratory. Short comings/deficiencies in performance during the course of testing of materials/samples, if observed may be brought to the notice of this office.
7. The approval does not make the Laboratory eligible for claiming right to get the testing of materials/samples through them only. Testing of materials/samples through them shall be subject to Laboratory's performance against other approved Laboratory's .
8. The performance of the Laboratory shall be watched by the field units and report submitted to the approving authority for periodical review.

यह कार्यालय आदेश अपर महानिदेशक महोदय (भोपाल) की अनुमति से जारी किया जा रहा है।

कार्यपालक अभियंता (सिविल)  
कार्यालय अपर महानिदेशक (भो.)  
के.लो.नि.वि., भोपाल

प्रतिलिपि :

1. The All Chief Engineers, Superintending Engineer and Executive Engineers under this region for information and necessary action please. **(By Email Only)**.
2. Stellar Test House Laboratory,G-68,Sector-63,Noida (UP)-201301  
E- mail: info@stellartesthouse.com (By Email & Speed Post).

  
कार्यपालक अभियंता (सिविल)