

**FURTHER DETAILS REGARDING MAIN TOPICS OF
PROGRAMME No. 01/2021 (Item No: 12, 13, 14, 15, 16, 17 & 18)**

ENGINEERING ASSISTANT GRADE III in KERALA STATE CONSTRUCTION CORPORATION LIMITED/WORK SUPERINTENDENT in AGRICULTURE (SOIL CONSERVATION UNIT)/OVERSEER GRADE III in PUBLIC WORKS DEPARTMENT/TRACER in TOWN AND COUNTRY PLANNING/OVERSEER GRADE III/ WORK SUPERINTENDENT GRADE II in KERALA LAND DEVELOPMENT CORPORATION LIMITED/ OVERSEER GRADE III (CIVIL) in IRRIGATION AND ADMINISTRATION

Category Numbers: 024/19, 131/19, 132/19, 336/19, 551/19, 37/2020 & 113/2020

BASIC ENGINEERING DRAWING

Drawing instruments, equipment and materials

Lettering, dimensioning and scale

Plane geometrical construction

Conic section and projection

SURVEYING

Conventional surveying

Introduction and terms used in chain, compass, plane table and leveling survey

Principle of leveling, Type of leveling, Reduction of levels

Contouring ,Theodolite survey

Modern and advanced surveying instruments

BUILDING MATERIALS AND CONSTRUCTION

Stone, Brick, Tiles, Cement, Lime and filler materials

Plane cement Concrete, Reinforced cement concrete

Timber

Foundation, Masonry, Roofing, Flooring

Building finishes and services

Temporary structural treatment for building construction

BUILDING DRAWING AND ESTIMATING

Building rules and byelaws

Estimation, Rules and methods of measurements of work

Rate analysis and valuation

HYDRAULICS AND IRRIGATION

Terms used in Irrigation

Storage and diversion head works

Reservoir, dam, canals, Cross drainage work

Properties of fluid

Measurement of pressure

Type of Hydraulic energy

AUTOCAD

Introduction to AutoCAD

Basic commands

Drawing toolbar and modifying toolbar

Plotting and printing

NOTE: - It may be noted that apart from the topics detailed above, questions from other topics prescribed for the educational qualification of the post may also appear in the question paper. There is no undertaking that all the topics above may be covered in the question paper.