



46593 Induction Motor Compound Generator Lab is an adaptive training system for Electrical laboratories. It is designed to demonstrate the fundamental concepts of DC Compound Generator on different loading conditions. The diagrammatic representation is provided on the control panel so that students can make connections themselves. All protection circuits are inbuilt, so there is very less chance of fault or danger.

#### Features:

01. Electrical loading arrangement
02. Flexible shaft coupling arrangement
03. Provided with Digital Tachometer
04. Machine with Class "B" Insulation
05. Heavy Duty Base/Channel
06. Equipped with supply indication lamps
07. Designed by considering all the safety standards
08. Diagrammatic representation for the ease of connections
09. Exclusive and Compact Design
10. Learning material CD
11. 2 Year Warranty

#### Technical Specifications:

Mains Supply : Three Phase, 415V $\pm$ 10%, 50Hz

Machine Specifications

Both the Machines are flexibly coupled and mounted on a 'C' Channel base

Three Phase Induction Motor (acts as prime mover)

Type : Squirrel Cage  
Rating : 2HP  
Voltage Rating : 415V AC  
Speed : 1440 RPM (no load)  
Insulation : Class 'B'

DC Machine (acts as generator)

Type : Compound  
Rating : 1HP (also available with 2HP & 3HP)  
Speed : 1500 RPM (no load)  
Insulation : Class 'B'

Analog Meters used

DC Voltmeter (MC) : 300V (2 Nos.)

DC Ammeter (MC) : 5A (2 Nos.)

AC Voltmeter (MI) : 500V

AC Ammeter (MI) : 5A

MCB (TPN) : 10A

Dimensions (mm) : W 600 x D 450 x H 600 (Control Panel)

W 180 x D 900 x H 285 (MG set)

Weight : 17kg (approx.) (Control Panel)  
55kg (approx.) (MG Set)

#### Scope of Learning:

01. Study and verify the Load Characteristics of Long Shunt Cumulatively Compound Generator
02. Study and verify the Load Characteristics of Short Shunt Cumulatively Compound Generator
03. Study and verify the Load Characteristics of Long Shunt Differentially Compound Generator
04. Study and verify the Load Characteristics of Short Shunt Differentially Compound Generator

#### Optional:

Three Phase Variac 10A

Resistive Load

(for machines rated upto 1HP/ 3HP respectively)



Software window showing DC Machine front view construction

Note: Specifications are subject to change.

#### Tesca Technologies Pvt. Ltd.

305, Taru Chhaya Nagar, Tonk Road, Jaipur-302029, India

Tel: +91-141-2724326, Mob: +91-9413330765

Email: info@tesca.in, tesca.technologies@gmail.com

Website: www.tesca.in