



Engineering College, Ajmer,
N.H.8 , Barliya Circle, Near Nareli Temple, Ajmer

PURCHASE ORDER

Package Code: TEQIP-III/2019/RJ/GECA/103

Current Date: 09-Jan-2020

Package Name: GECA/TEQIP-III/2017-18/EE-High Voltage

Method: Shopping Goods

PO Reference No : TEQIP-III/2019/RJ/ECA/103

Date of Issue: 09-Jan-2020

Subject : GECA/TEQIP-III/2017-18/EE-High Voltage


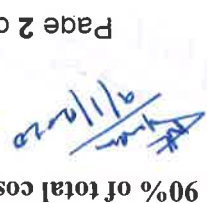
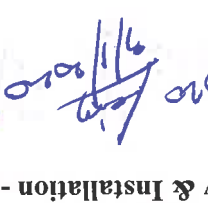
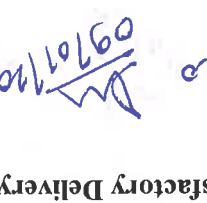
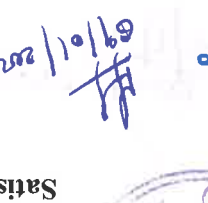
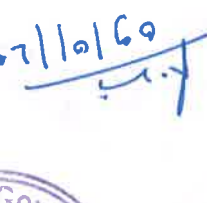

Purchaser : Engineering College, Ajmer, N.H.8 , Barliya Circle, Near Nareli Temple, Ajmer

Supplier Name: M/s Electronics India,
B-131 A, Parshwanath Colony, Nirman Nagar, Ajmer Road,,
Jaipur, Rajasthan-302019

With reference to our correspondence, Engineering College, Ajmer, N.H.8 , Barliya Circle, Near Nareli Temple, Ajmer, is pleased to award this detailed Purchase Order to for supply of items as per the details given below at a total cost (Contract Value) of **Rs. 2178280 (In Words: Twenty One Lakhs Seventy Eight Thousands Two Hundred Eighty Only)**

Sr. No	Item Name	Quantity	Place of Delivery	Installation Requirement (if any)
1	Determine capacitance and dielectric loss of an insulating material using Schering bridge.	1	Engg. College, Ajmer N.H. 8, Barliya Circle, Near Nareli Temple, Ajmer	Onsite installation and testing & commissioning required.
2	Determine dielectric strength of transformer oil	1		
3	High Vacuum Oil Filter Machine	1		
4	Study high voltage testing of electrical equipment: line insulator, cable, bushing, power capacitor,	1		
5	Study solid dielectrics used in power apparatus & Study applications of insulating materials.	1		
6	Electrical Machine Trainer	1		
7	Computer Interface panel	1		
8	Universal Motor	1		



Satisfactory Delivery & Installation - 90% of total cost



Payment Terms :

Below are the payment terms-

day from the date of issue of PO
 Bank guarantee of any Nationalized. Bank only within 21

Performance Security :

Performance security amount Rs 92300.00 at the rate of (5
 period exceeds 60 days. LD Max. 10% on pre tax
 automatically without any prior notification if delivery

45 days. Purchase Order shall be understood cancelled
 per day on pre tax billing amount if delivery period exceeds
 Liquidated Damages will be charged at the rate of 0.01 %

Liquidated Damages :

12 Months from the date of successful acceptance of items.

Warranty (In Months):

45 days or as early possible

Delivery Period :

As per Annexure - 1

Technical Specifications :

NA

Training Clause (if any) :

Price must be included in quotation.

Testing/Installation Clause (if any):

On site installation and testing & commissioning required.

Nareli Temple, Ajmer

Delivery :

Engineering College, Ajmer, N.H.8 , Bariya Circle, Near

Total Octroi & Other Charges : Rs. 0

Total price (with taxes) : Rs. 2178280

Total applicable taxes : Rs. 332280

Total price (without taxes) : Rs. 1846000

9	3 phase squirrel cage motor	1	
10	3 Phase Salient Pole alternators	1	
11	Phase Shift Lock Rotor Mechanism	1	
12	Test gear for Synchronising	1	
13.	30MHZ Dual Trace Oscilloscope With Component Tester	4	
14	Regulated DC Power supplies	2	

Satisfactory Acceptance - 10% of total cost

Invoice Generation:

The invoice has to be generated against GST No.
08AABAP0959P1ZZ of Govt. Engineering College, Ajmer

Dr. U.S. Modani
Principal
Govt. Engineering College,
AJMER

RM
09/01/2020

RM
09/01/2020

RM
09/11/2020

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09/11/2020

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RM

Accepted by Signature:

Date:

Address:



Annexure I

Specifications

Electrical properties of insulating systems change due to age and

continuous electrical stress.

By measuring electrical properties such as capacitance and Tan-delta regularly it should be possible to ensure the operational reliability of H.V. insulating system and to avoid costly

breakdowns.

This is particularly important for HV bushings, power transformers, Generator, power capacitors, H.T. cables etc. interference suppression the Capacitance & dissipation factor test systems has been specially shielded with configured layouts of mu-metal sheets to avoid the effect of external interferences.

This makes the measurement accurate in outdoor applications particularly in very high magnetic induction switch yards.

Phase reversal switch provided in the H.V. Power supply effectively cancels interfacial pick up by the object under test in energized environment.

There is separate 3-level interference suppression unit that is also provided for situation where the induction is too excessive, and cannot to cancel even by phase reversal switch.

Operation schering bridge for Tan delta tester 10 kv includes have power source, standard capacitor (SF6 Gas filled), and set of cables.

The compact design of the system uses the principle of three winding differential transformer on a high permeability mu-metal core.

The set is contained in a sturdy metallic housing with mu-metal lining which shields it from external powered null indicator make the system suitable for operation in workshop, factories, high voltage switch yards etc. it is suitable for both grounded as well as ungrounded objects. Protection the system should be provided with High Voltage Protection devices which protect the system and operator against failure of test object or standard capacitor. The other safety features are- zero start control.

Technical Parameters

Input power required

230 VAC/ 50 Hz \pm 10% (110V, 60Hz available on special request)

Voltage Range

0-12kV

Leakage Current

100mA Continuous

Voltage Indication

3 1/2 digit Digital Panel Meter (DPM)

Resolution

10 Volt

Accuracy

\pm 1% of the reading \pm 2 digit SF6 Gas filled, 100pf / 12kV \pm 1%, Tan $\delta \leq 1 \times 10^{-4}$

Standard Capacitor

Modes for testing

UST (Ungrounded Specimen Test)

GST (Grounded Specimen Test)

GST g (Grounded Specimen Test with Guard)

Cable Test Set - Specially shielded connecting cables to for the



S. N. Item Name
1 Determine capacitance and dielectric loss of an insulating material using Schering bridge.

object testing.

10 mtr of 12kV, Double screened cable with insulated crocodile clip for HV.

10 mtr Single screened cable with insulated crocodile clip for LV.

10 mtr 1.0 sq. mm cable for GROUND

User manual – 1 no

Calibrator Decade Box – 3kV AC, 3 tan-delta tappings for periodic calibration check

Test certificate – 1 no

Warranty Certificate – 1 no (Standard warranty 1 yr)

2 Determine dielectric strength of transformer oil

It should be self contained compact and portable sets giving smooth variable output voltage from 0 to 60 KV.

These testers should be designed for testing the die-electric breakdown strength of insulating liquids.

Technical specifications:

Input :0-230V

Output:0-60 KV

Capacity: 20Ma.

Component specification:

Main on/off switch and one main ON indicator (1 Nos) increase decrease switch (1 Nos.) H.T. On Off push button switch

3 High Vacuum Oil Filter Machine

The plant will be suitable for carrying out following operations:

1. Degassing, Dehydration and filtering transformer oil under high vacuum.

2. Filling of treated oil in to transformer tank.

3 Filtration and Dehydration of transformer.

4. The plant will be capable of attaining the following oil parameters in 3/5 passes.

A. Breakdowns voltage with 2.5 mm electrode gap- 50-70kV

B. Moisture content- upto <5ppm

c. Neutralization value- < 0.05mg of

KOH/gm of oil

d. Particle size (filtration level) - < 1 micron

e. Gas content - up to 0.1% by volume

The plant will be mounted on caster while (pneumatic) & the casing shall be provided with doors of CRCA sheets, hinged on fabricated framework, angles and channels to have access to the operational controls and inspection and shall be fully caster while mounted and shall be weather proofed and shall be suitable for outdoor use. The plant components will have adequate strength and rigidity to withstand normal conditions of handling & usage. The plant will be mobile mounted.

Strainer: It will be a metallic strainer with magnet fitted in it. It will remove magnetic and suspended particles to protect the inlet pump from damage due to abrasive particles.

a. Rating - 1mm

b. Flow – 250GPH (1200 Lph)

Inlet Pump Details: Positive Displacement type Rotary Gear Pump with following

specification:

a. Flow Rate – 250GPH (1200Lph)

b. Suction – 5Meters

c. Provided with - Automatic Pressure By pass, flow control valve.

d. Gear pump coupled with Electric motor of rating 1HP, 3Phase,



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<p>and 415volts. e. The electric motor should be ABB/CG/Siemens and any other ISI marked.</p> <p>Module construction kits should be able to design the generation of 100 KV rating current (AC), 140 KV direct current (DC) and impulse high voltage (HV) by construction kit element, available of indoor design. It must be an ideal test system to use when training students in college programs and for application in research and development. The following components should be within the system: Console, including switch, on-off switch, and regulator output voltage indicator.</p> <p>This kit is used for the purpose of determining the HV breakdown voltage of the insulation materials used in manufacturing of the transformers.</p> <p>SPECIFICATION: Input voltage: 220V, 1? 50 Hz AC supply. Input current: 4 Amps. Output voltage: 30,000 volts AC. Output current: 30mA Special Features: Enclosures are made from CR sheet with duly galvanized and powder coated. Necessary push button and indicators with identification are provided for the easy operation. Built in fuse protection, built in over current protection. Start/ stop. Reset switch. Trip status indicator Meters: 30KV AC meter for measuring the HV breakdown voltage. 30mA AC meter for measuring the breakdown current. Digital timer is provided for withstand test which i.e. for 60 sec. testing of insulators, bushings.</p>	<p>Electrical Machines Trainer set</p>
<p>Study high voltage testing of electrical equipment: line insulator, cable, bushing, power capacitor, Study solid dielectrics used in power apparatus & Study applications of insulating materials.</p>	<p>6</p> <p>Electrical Machines Trainer set</p> <p>Features : • Should have 4mm sturdy shrouded banana patch cords and shrouded arrangements. • All machines should be mounted on finely painted sturdy base frame with easy machine interchangeability. • Should be able to draw all graphs • Machines should operate upto 300W power levels and upto 1500 RPM. • Must use Trunion mounted DC machine as Dynamometer for loading other machines with facility to measure shaft power using electronic torque / speed measurement • One Dynamometer type DC m/c per aluminium Rack with multiple panels</p> <p>A) Technical Specifications of interfacing panel rack - 1 No. Powder coated Sturdy aluminiums Flat panel system made up off Alluminium extruded profiles carrying various high voltage components housed in plastic enclosures to minimize shock possibility. Should be able to hold following control panels with colorful overlay.</p> <p>B) Each control panel rack consists of :-</p> <p>Input 3 phase DOL Starter panel [10 Shrouded Banana] 1 No.</p> <ul style="list-style-type: none"> • 4 pole MCB of 415 V/1A . • DOL 9A Contactor with 230V / 50 Hz / 11VA COIL .

- Bimetallic thermal O/L relay with range 1.4A - 2.3A .

Multifunction 3 Phase Meter

2 Nos.

- Connection : 3Phase 3/4 wire
- Volts Input : 400V/230V AC
- Aux Supply : 230V AC, 45-65Hz,5W
- Display : LCD Display
- CT Input : 5A, 0.1 VA/Ph.
- Measurement: V, I, Hz, Pf, KVA, KW, KWh
- Computer Input : Modbus RTU RS 485
- Termination : SBSS Terminal

FWD/REV ,Star-Delta starter panel [12 Shrouded Banana] 1 No.

- FWD/REV, 3 pole 3 way switch with centre OFF,6A/440V.
- Star/Delta switch 3 pole ,3 way with centre OFF,6A/440V.

3 Phase wound Rotor & Sync. Motor panel [8 Shrouded Banana] 1 No.

- Rotor resistors of 30E/5A with 3 taps of 0E, 15E, 21E, 30E
 - Rotor resistor selector switch ,3 pole.6 Way .6A/440 V.
 - DC Rotor excitation over current relay (3Amp)

1 Phase Motor, Alternator & Sync. Motor Panel [14 Shrouded Banana] - 1 No.

- 1 ϕ MCBs of 4A/1.6A – 2nos.
- 2no 2P2W selector switches to run as 1 ϕ alternator then as synchronous motor.
- 8A pushbutton switch to simulate as centrifugal switch.

DC voltmeter and DC ammeter panel [14 Shrouded Banana] 1 No.

- DC voltmeter(0-300V)
- DC Ammeter (0-5A) with polarity protection diode
- Field failure relay to control Armature supply. Both 6A/6B needed simultaneously.

SCR Actuator (variable DC) cum sensor signal conditioning panel [4 Shrouded Banana]-3 Nos.

- Half bridge SCR based 0V-195V / 5 Amp cosine firing with linear characteristics.
- Supports signal conditioning circuit for speed, torque in kg wt to output 0-2.5Vdc (FS).
- 3 Nos. of these supplies required for DC Armature, DC motor field and AC generator field.

Instrumentation Power supply cum Multichannel DPM panel [10 Shrouded Banana] 1 No.

- +/-12 V ,500 mA
- +5V ,300mA
- Unregulated 17V dc/750 mA
- line synchronizing signal.
- 13V / 3 Amp.
- Multi channel DPM for digital display of torque, speed etc

Resistor Load Panel 1 No.

Should have off position to run on no load.

- AC Resistors = 10K/200WX3 phases/ 6 steps
- DC Resistors = 750E/400W / 6 steps

LC Load panel 2 Nos

- Inductive load =



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<p>10 3 Phase Salient Pole alternators</p>	<p>Rotor Construction : Star connected, four terminals including star point Capacity/RPM /Terminals : 300W/4 Pole m/c / 1500RPM Voltage: 415VAC, 50Hz 3 Phase Salient Pole alternators:- curve in both motor as well as generator mode.</p>
<p>9 3 phase squirrel cage motor</p>	<p>Rotor Construction : Diacast rotor. Stator Construction: 6X2 terminals brought out to run machine at two speeds using pole changing method, Chassis mounted with 19mm dia. Applications: Motor should work as Induction generator, Torque speed curve in both motor as well as generator mode.</p>
<p>8 Universal Motor</p>	<p>Rotor Construction : Standard commutator . brush arrangement brought out on 2 terminals Stator Construction : Stator brought out on 2 terminals to facilitate AC/DC operation & direction change. Built in compensating winding to minimize AR & sparking. Chassis mounted with 19mm dia.</p>
<p>7 Computer Interface panel</p>	<p>Computer Interface panel connects to pc usb port using usb IO module through 25 pin D (M) connector on CIP & Type A to mini B cable consisting of 4 ADC channels i/p: 0 to 2.5V with 1 no. AI input simulation pot, 1 DAC channel O/P 2.5 V, V to I function block I/P 0 to 2.5V & O/P 0-20 or 4-20 mA (100E load) switch settable, I to V function block: I/P 4 to 20 mA & O/P 0-2.5V, DC V/I measurement panel using panel. facility of modbus to communicate AC multi parameter measurement meter (MMM)/Power Network analyzer. supplied in electrical machine trainer quoted above. Software on CD: Virtual Workbench package is a USB / serial modbus based software working on windows dot Net platform coupled with USB IO module useful as general purpose utility which supports different control strategies like Single or multi loop PID controllers, Fuzzy controller etc, Graph plotting in XY, XT and polar mode etc, Modbus interface, Data logging, Event trigger, inbuilt Function generator etc</p>
<p>trainer: A) Hand held tachometer – 1 No. B) Shrouded patch chord – 1 18 C) Well written students workbook explaining atleast 50 experiments with instructor guide-1 No. D) DEMO CD to help student to work by themselves – 1 No.</p>	<p>Following Essential accessories should be provided with as shunt/series/compound motor as well as generator. Dynamometer with torque & speed sensors. Must be able to work Chassis mounted, 19mm dia, trunion mounted Machine for use as terminals laminated pole solid yoke and series winding brought out on 4 terminals Rotor Construction : Should be Standard commutator / brush arrangement with laminated stack, brought out on 2 terminals Stator Construction : separately excited field winding with laminated pole solid yoke and series winding brought out on 4 terminals a. DC INTEGRATED M/C 1 No. Voltage : Varm = 180V, Vfield = 180V Capacity/RP M/Terminals : 300W / 2 Pole m/c / 1500RPM 6 terminals (B) Capacitive load = 1.25µ/2.5µ/5µ/415VX 3Nos. 0.15H/0.3H/0.45H/0.6H/0.75H/1.5H/3H/400mAX3Nos.</p>

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brought out on 4 slip rings mounted on shaft.

Stator construction : Separately excited field winding with laminated solid yoke, 4 pole brought out on 2 terminals

Winding Temp. : A embedded Thermistor brought out on 2 eyelets mounted on terminal box for monitoring winding temperature

Frame/ Mounting Shaft dia: 90 Frame, Chassis mounted 19mm dia. With easily swappable gear coupling

11 Phase Shift Lock Rotor Mechanism:

Phase Shift Lock Rotor Mechanism:

I) Mounting Method: By mounting PSLR mechanism on C bracket, using 4 nuts & bolts, it can be directly inserted on to the shaft of diameter 19mm of 3Phase AC machine & to screw the C bracket securely to U shaped open slots of chassis.

II) Block Rotor Test : Above mechanism is mounted on chassis as shown & coupled to 3 phase AC induction squirrel cage motor (0.5HP) to carry out block rotor test. Here the turning wheel or knob of PSLR mechanism has no role to play.

12 Test gear for Synchronising

Test gear for Synchronising of 2Nos. Of 3 phase Generator (3 phase AC machines) consist of one set of Synchroscope panel with 3X2 lamps, Sync Switch, essential accessories like connecting cables, students workbook, patch cords etc.

13 30MHz DUAL TRACE OSCILLOSCOPE With Component Tester

Features

- DC - 30MHz Bandwidth
- 1mV/div Sensitivity on Both Channels
- CH1, CH2 (Independent Channels), CH1 & CH2 (Alternate / CHOP), CH2 INVT, ADD and SUBTRACT
- X-Y Operation
- 40ns/div to 0.2s/div Time Base
- 140mm Rectangular CRT with Internal Graticule
- Triggering to 40MHz
- Z Modulation (TTL Level)
- 8 x 10 cm. Display
- TV Triggering Frame (V) & Line (H)
- MAINS Trigger
- Variable Hold Off
- Built-in Component Tester / Comparator

Technical Specifications

VERTICAL DEFLECTION

Deflection Coefficient (CH1 & CH2)	1mV/div to 20V/div. 5mV/div to 20V/div in 12 calibrated steps in 1-2-5 sequence. x5 Magnification increases the sensitivity to 1mV/div & 2mV/div. (LED indicated).
Accuracy	±3%.
Bandwidth	DC - 30MHz (-3dB), dc coupled. 10Hz -30MHz (-3dB), ac coupled. 20MHz (-3dB) in x5 MAG.
Rise-Time	11.6 ns or less, 17.5ns in x5 MAG.
Display Modes	CH1, CH2, CH1 & CH2 Alternate or Chop mode, Algebraic addition CH1 + CH2, Algebraic subtraction CH1 - CH2, CH2 Invert & X-Y.
Input Impedance	1 M ohms & 25 pF (approx).
Maximum Input Voltage	400 Volts (dc + peak ac).



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TIME BASE										
Sweep Speed	18 calibrated steps. 0.5 μs/div to 0.2 s/div in 1, 2 & 5 sequence.									
Sweep Magnifier	x5 Magnification extends the sweep speed to 100 ns/div. x5 Magnification indication with LED.									
Accuracy	±3%.									
Variable	Uncalibrated continuously variable control between steps, extends fastest sweep speed to 40 ns/div (approx). (Uncal LED indication).									
Hold-off Time	4:1 variable control.									
TRIGGER SYSTEM										
Triggering	Automatic or Normal with Level Control.									
Mode	CH1 / CH2 / MAINS / EXT.									
Slope	Positive or Negative.									
Coupling	ac / dc / HF reject or TV Frame / TV Line.									
Trigger	<table border="1"> <tr> <td>Mode</td> <td>Freq - Range</td> <td>NT</td> </tr> <tr> <td>AUTO</td> <td>30Hz - 30MHz</td> <td>1 div</td> </tr> <tr> <td>NORM</td> <td>3Hz - 30MHz</td> <td>1 div</td> </tr> </table> (Typical 40MHz at 2 div).	Mode	Freq - Range	NT	AUTO	30Hz - 30MHz	1 div	NORM	3Hz - 30MHz	1 div
Mode	Freq - Range	NT								
AUTO	30Hz - 30MHz	1 div								
NORM	3Hz - 30MHz	1 div								
HORIZONTAL DEFLECTION										
Deflection Coefficient	Same as CH2.									
Bandwidth	DC - 1MHz (-3dB).									
Input Impedance	1M ohms and 25pF (approx).									
COMPONENT TESTER / COMPARATOR Dual Component Tester allows comparison of V-I characteristics of a Device - Under - Test (D.U.T.) and a sample Device.										
Test Voltage	8.6V r.m.s.									
Test Current	28mA.									
Test Frequency	50Hz or 60Hz.									
GENERAL INFORMATION										
Cathode Ray Tube	140mm Rectangular screen, Internal Graticule, 8 x 10 cm, P31 phosphor.									
Trace Rotation	Front Panel control, allows ±50 of trace adjustment.									
Z-Modulation	TTL level.									
Calibrator	Provides 0.2V ±2%, 1KHz square-wave output for probe compensation.									
Power Requirement	230V AC ±10%, 47-65Hz, 40VA.									
Dimensions	165 (H) x 340 (W) x 420 (D) mm.									
Weight	7.5 Kgs. approx.									
Standard Accessories	Instruction Manual, 2 Input BNC Leads.									
Optional Accessories	High impedance switch probe with x1 or x10 attenuation (Model 306), Trolley.									
Environmental	Normal : 100C to 400C RH 85%. Operational : 00C to 500C RH 85%.									
Specifications										
Output Voltage & Current	0-32V / 0-2A									
Metering	3 Digit DPM.									



Power Supply
Dual Channel 0-
32V / 0-2A

Meter Accuracy : ± 3 counts.

Constant Voltage Mode :

Regulation :

Line : $\pm 0.01\% \pm 2\text{mV}$ for $\pm 10\%$ change in line output.

Load : $\pm 0.01\% \pm 2\text{mV}$ for load change from zero to full load.

Ripple & Noise: 1mV rms max.
20Hz - 20MHz.

Constant Current Mode:

Regulation :

Line : $\pm 0.1\% \pm 250\mu\text{A}$ for $\pm 10\%$ line change.

Load : $\pm 0.1\% \pm 250\mu\text{A}$ for change in output voltage from 0 Volts to maximum output voltage.

Ripple & Noise: 0.04% rms.

Mode Indication: LED indication for constant voltage / constant current operating mode.

Output Polarity : Floating w.r.t. ground.

Overload Protection : Automatic overload and short circuit protection.

Transient Response : 100 μs to within 10mV of set output voltage for load change from 10% to 90%.

Stability: Total drift within 8 hours, after warm-up.

< $\pm 0.2\%$ plus 5mV in constant voltage mode.

< $\pm 0.5\%$ plus 5mA in constant current mode with constant line, load and ambient temperature conditions.

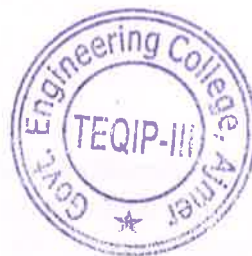
Operating Temperature: 0-50 C.

Line Voltage : 230V AC $\pm 10\%$ 50Hz, single phase.

Note : Regulation To Be Measured At Sense Terminals.

CUSTOM CAPABILITY:

Special Voltage And Current Ratings Available On Request.





Note: The Bank Guarantee to be issued by nationalized bank only and is to be submitted on a non-judicial stamp paper of Rs. 100/- (One Hundred only). The non-judicial stamp paper should be purchased in the name of issuing bankers. The Issuing bank must provide its Head Office/Regional office addresses of communication

.....
.....
Address:.....
Date.....2020.

Signature and Seal of Guarantors

This guarantee is valid until theday of.....2019.

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, up to a total of (Amount of the Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limit of (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

AND WHEREAS we have agreed to give the Supplier a Guarantee:

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a Nationalized bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

WHEREAS (Name of Supplier) hereinafter called "the Supplier" has undertaken, in pursuance of Contract (Notification of Award) No..... dated,..... 2019 to supply.....(Description of Goods and Services) hereinafter called "the Contract".

To: _____ (Name of Purchaser)

PERFORMANCE SECURITY FORM