

**ADMINISTRATION OF UT OF DAMAN & DIU
OFFICE OF THE PRINCIPAL,
GOVERNMENT ENGINEERING COLLEGE,
VARKUND, NANI-DAMAN 396210.**

Notice No. 25.1/EQU/GEC/ELE/2019-20/139

DATE: 02/08/2019

CORREENDUM

As per Tender Notice No. 25.1/EQU/GEC/ELE/2019-20/118, Dated: 17/07/2019, E-Tender ID No. 2019_DAMAN_410_1 Dated 22.07.2019, this is to inform you that a corrigendum is kept for Technical Specification (Annexure – III) of E-Tender given below for supply of Equipments for Electrical Engineering Laboratory at Govt. Engineering College, Daman

The following points are as under:

SI No.	<u>Instead of</u>			<u>Read as</u>		
	Item Particular	Configuration	Quantity	Item Particular	Configuration	Quantity
3.01	SQUIRREL CAGE INDUCTION MOTOR CONNECTED TO SELF EXCITED DC GENERATOR	5 HP / 415 V / 1440 RPM / TEFC / 50 Hz. / Three Phase Sq. Cage Induction Motor with Mechanical Loading arrangement having Round dial scales and Friction Belt for Torque Measurement. Control Panel consisting DOL Starter, TPN MCB, AC Digital Ammeter 1 No, AC Digital Voltmeter 1 No., Digital 3phase UPF wattmeter 1No., Digital 3phase LPF wattmeter 1No., 3phase Auto Transformer inbuilt all other indicators, terminals, patch cords and switches required. Panel made of MS Sheet with PV facia	01	SQUIRREL CAGE INDUCTION MOTOR CONNECTED TO SELF EXCITED DC GENERATOR	3 HP / 415 V / 1440 RPM / TEFC / 50 Hz. / Three Phase Sq. Cage Induction Motor coupled with 1.8 KW / 220 V / 1500 RPM DC Shunt Generator with base and couplings. Control Panel consisting DOL Starter, TPN MCB, AC Digital Ammeter 1 No, AC Digital Voltmeter 1 No., Digital 3phase UPF wattmeter 1No., DC Digital Voltmeter 1No., DC Digital Ammeter 2Nos., Field Regulator Inbuilt 1No. for Generator Field, all other indicators, terminals, patch cords and switches required. Panel made of MS Sheet with PV facia	01
3.03	SINGLE PHASE INDUCTION MOTOR	CG or Merathon make 3 HP / 230 V / 1440 RPM / 50 Hz. / CSCR / TEFC or SPDP / Single Phase / Sq. cage Induction Motor with Mechanical Loading arrangement having linear scales and Friction Belt for Torque	01	SINGLE PHASE INDUCTION MOTOR	1 HP / 230 V / 1440 RPM / 50 Hz. / TEFC or SPDP / Single Phase / Sq. cage Induction Motor with Mechanical Loading arrangement having linear scales and Friction Belt for Torque Measurement. with 10 leads brought out for easy connection and students understanding of winding, capacitors	01

		Measurement. with two leads brought out for easy connection. Control Panel consists of TPN MCB, DOL Starter, Inbuilt DC Excitation for Motor Field, Digital AC Voltmeter 1No., Digital AC Ammeter 1No., Digital DC Ammeter 1No., Digital 3ph. 2 E 415V/ 10A Wattmeter 1No., Digital 3ph. 2 E 415V/ 10 A. Power Factor Meter 1No., All other indicators, terminals and switches required. Panel made of MS sheet with PV facia.			connection etc. Motor must be run as CSCR, CSIR & Split phase. Control Panel consists of DP MCB, DOL Starter, Digital AC Voltmeter 1No., Digital AC Ammeter 1No., Digital 1ph. 300V/ 10A UPF Wattmeter 1No., Digital 1ph. 300V / 10 A. LPF Watt Meter 1No., All other indicators, terminals and switches required. Panel made of MS sheet with PV facia.	
3.05	DC SHUNT MOTOR COUPLED TO A THREE PHASE ALTERNATOR - PREFERABLY SALIENT POLE TYPE (TWO SETS)	5 HP / 220 V / 1500 RPM / Shunt Wound DC Motor coupled to 3KVA / 415 V / 3 Phase / 1500 RPM / 50 Hz. / Four Pole / Rotor Wound / Stator Excited/ Separately excited / Manually Regulated / UPF / Salient Pole Alternator with base and couplings. Control Panel consisting Inbuilt DC Supply, 3-point Starter 1 No., 1No. Digital DC Voltmeter, 3 Nos. Digital DC Ammeter, 1No. Digital AC Voltmeter, 1No. Digital AC Ammeter, Field Rheostat (Inbuilt) 1 No., Excitation unit (Inbuilt) for Alternator Field, all other indicators, terminals, patch cords and switches required. Panel made of MS Sheet & PV facia.	01	DC SHUNT MOTOR COUPLED TO A THREE PHASE ALTERNATOR - PREFERABLY SALIENT POLE TYPE (TWO SETS)	5 HP / 220 V / 1500 RPM / Shunt Wound DC Motor coupled to 3KVA / 415 V / 3 Phase / 1500 RPM / 50 Hz. / Four Pole / Rotor Wound / Stator Excited/ Separately excited / Manually Regulated / UPF / Salient Pole Alternator with base and couplings. Control Panel consisting Inbuilt DC Supply, 3 point Starter 1 No., 1No. Digital DC Voltmeter, 3 Nos. Digital DC Ammeter, 1No. Digital AC Voltmeter, 1No. Digital AC Ammeter, 1No. Digital 3Ph. 2E 440V / 10A. UPF Wattmeter, Field Rheostat (Inbuilt) 1 No., DC Excitation unit (Inbuilt) for Alternator Field, all other indicators, terminals, patch cords and switches required. Panel made of MS Sheet & PV facia.	01
3.06	AUTO SYNCHRONOUS MOTOR	5 HP / 415 V / 1500 RPM / 50 Hz. / Star Connected / Rotor Wound / Stator Excited / Separately Excited / Manually Regulated / Salient Pole type / Auto Synchronous Motor with damper windings for auto induction start complete with Mechanical Loading arrangement having Round dial scales and Friction Belt for Torque Measurement. Control Panel consists of DOL Starter, Inbuilt DC Excitation for Motor Field, Digital Voltmeter 1No., Digital Ammeter 1No., Digital 3ph. 2 E 414V/ 10A Wattmeter 1No., Digital 3ph. 2 E 414V/	01	AUTO SYNCHRONOUS MOTOR	5 HP / 415 V / 1500 RPM / 50 Hz. / Star Connected / Rotor Wound / Stator Excited / Separately Excited / Manually Regulated / Salient Pole type / Auto Synchronous Motor with damper windings for auto induction start complete with Mechanical Loading arrangement having Round dial scales and Friction Belt for Torque Measurement. Control Panel consists of DOL Starter, Inbuilt DC Excitation for Motor Field, Digital AC Voltmeter 1No., Digital AC Ammeter 1No., Digital DC Ammeter 1No., Digital 3ph. 2 E 440V/10A UPF Wattmeter 1No., Digital 3ph. 2 E 440V/10 A. Power Factor Meter, All other	01

		10 A. Power Factor Meter, All other indicators, terminals and switches required. Panel made of MS sheet with PV facia.			indicators, terminals and switches required. Panel made of MS sheet with PV facia.	
4.01	DESIGN OF THREE PHASE SQUIRREL CAGE INDUCTION MOTOR	5 HP / 415 V / 1440 RPM / TEFC / 50 Hz. / Three Phase Sq. Cage Induction Motor with Mechanical Loading arrangement having Round dial scales and Friction Belt for Torque Measurement. Control Panel consisting DOL Starter, TPN MCB, AC Digital Ammeter 1 No, AC Digital Voltmeter 1 No., Digital 3phase UPF wattmeter 1No., Digital 3phase LPF wattmeter 1No., all other indicators, terminals, patch cords and switches required. Panel made of MS Sheet with PV facia	01	DESIGN OF THREE PHASE SQUIRREL CAGE INDUCTION MOTOR	5 HP / 415 V / 1440 RPM / TEFC / 50 Hz. / Three Phase Sq. Cage Induction Motor with Mechanical Loading arrangement having Round dial scales and Friction Belt for Torque Measurement. Control Panel consisting DOL Starter, TPN MCB, AC Digital Ammeter 1 No, AC Digital Voltmeter 1 No., Digital 3ph. 2E. UPF wattmeter 1No., Digital 3ph. 2E. LPF wattmeter 1No., 3Ph. Variac 8Amp. 1No., all other indicators, terminals, patch cords and switches required. Panel made of MS Sheet with PV facia	01
4.02	DESIGN OF THREE PHASE SLIP RING INDUCTION MOTOR	5 HP / 415 V / 1410 RPM / 50 Hz. / Star Connected / 200 V – Star connected wound Rotor / Three Phase Slipring Induction Motor with Mechanical Loading arrangement having Round dial scales and Friction Belt for Torque Measurement. Control Panel consisting DOL cum Rotor Resistance Starter, TPN MCB, AC Digital Ammeter 1 No, AC Digital Voltmeter 1 No., Digital wattmeter 2Nos., all other indicators, terminals, patch cords and switches required. Panel made of MS Sheet with PV facia	01	DC Shunt Motor	3 HP / 220 V / 1500 RPM / DC Shunt Motor with Mechanical Loading arrangement having Round dial scales and Friction Belt for Torque Measurement. Control panel consist of Inbuilt DC Power Supply, 3point Starter 1No., Digital DC Voltmeter 1No., Digital DC Ammeter 2Nos., Inbuilt Field Regulator for Motor Field 1No., All other indicators, terminals and switches required. Panel made of MS sheet with PV facia.	01
4.03	DESIGN OF SINGLE PHASE INDUCTION MOTOR	CG or Merathon make 3 HP / 230 V / 1440 RPM / 50 Hz. / CSCR / TEFC or SPDP / Single Phase / Sq. cage Induction Motor with Mechanical Loading arrangement having linear scales and Friction Belt for Torque Measurement. with two leads brought out for easy connection.	01	DC Shunt Motor coupled with DC Compound Generator	3 HP / 220 V / 1500 RPM / DC Shunt Motor coupled to 1.8 KW / 220 V/1500 RPM Compound Generator with base and coupling. Control panel consist of Inbuilt DC Power Supply, 3point Starter 1No., Digital DC Voltmeter 2Nos., Digital DC Ammeter 4Nos., Inbuilt Field Regulator for Motor Field & Generator Field 2Nos., All other indicators,	01

		Control Panel consists of DP MCB, DOL Starter, Digital AC Voltmeter 1No., Digital AC Ammeter 1No., Digital 1ph. 300V/ 10A Wattmeter UPF Type 1No., Digital 1ph. 30V/ 10 A Wattmeter LPF type 1No., 1ph. Variac 15 All other indicators, terminals and switches required. Panel made of MS sheet with PV facia.			terminals and switches required. Panel made of MS sheet with PV facia.	
4.04	DESIGN OF SALIENT POLE LOW SPEED ALTERNATOR	5 HP / 220 V / 1500 RPM / Shunt Wound DC Motor coupled to 3 KVA / 415 V / 3 Phase / 1500 RPM / 50 Hz. / Four Pole / Rotor Wound / Stator Excited/ Separately excited / Manually Regulated Salient Pole Alternator with base and couplings. Control Panel consisting Inbuilt DC Supply, 3 point Starter 1 No., 1No. Digital DC Voltmeter, 3 Nos. Digital DC Ammeter, 1No. Digital AC Voltmeter, 1No. Digital AC Ammeter, Digital Wattmeter 3Phase 2E 415V/10A., Field Rheostat (Inbuilt) 1 No., Excitation unit (Inbuilt) for Alternator Field, all other indicators, terminals, patch cords and switches required. Panel made of MS Sheet & PV facia. Non Contact Tachometer with Proximity Sensor (Speed meter) RPM meter is fitted on the panel and connections are directly given to the RPM sensor which is mounted on the powder coated machine base.	01	DESIGN OF SALIENT POLE LOW SPEED ALTERNATOR	5 HP / 220 V / 1500 RPM / Shunt Wound DC Motor coupled to 3 KVA / 415 V / 3 Phase / 1500 RPM / 50 Hz. / Four Pole / Rotor Wound / Stator Excited/ Separately excited / Manually Regulated Salient Pole Alternator with base and couplings. Control Panel consisting Inbuilt DC Supply, 3 point Starter 1 No., 1No. Digital DC Voltmeter, 3Nos. Digital DC Ammeter, 1No. Digital AC Voltmeter, 1No. Digital AC Ammeter, 1No. Digital Wattmeter 3Phase 2E 415V/10A., Field Rheostat (Inbuilt) 1 No., Excitation unit (Inbuilt) for Alternator Field, all other indicators, terminals, patch cords and switches required. Panel made of MS Sheet & PV facia.	01
5.14	MEASUREMENT OF LOW RESISTANCE BY KELVIN'S DOUBLE BRIDGE	Mains supply : 230 V $\pm 10\%$, 50 Hz DC Power supply : +5V Galvanometer Deflection : 30-0-30 Unknown Resistors : 0.3 Ω , 0.4 Ω , 0.8 Ω	01	MEASUREMENT OF LOW RESISTANCE BY KELVIN'S DOUBLE BRIDGE	Mains supply : 230 V $\pm 10\%$, 50 Hz DC Power supply : +5V Galvanometer Deflection : 30-0-30 Unknown Resistors : 0.3 ohm, 0.4 ohm, 0.8 ohm	01

6.07	CHOKES COILS (CAPACITOR LOAD) Single Phase	Technical Specification Input Main Voltage: 230/415V Ac. Voltmeter Range: 0-300/500V Ac. Ammeter Range: 5 - 100A Ac. Range : 1.25 kw (5 A) Range : 2 kw (8 A) Range : 2.5 kw (10 A)	01	CAPACITOR LOAD TROLLEY Single Phase	Technical Specification Input Main Voltage: 230V Ac. Voltmeter Range: 300 Ac. Ammeter Range: 10A Ac. Range : 2.5 kw (10 A) Load Trolley should have MCB for ON/OFF operation. It should have wheels for easy movement and perforated sheet for air colling	01
6.08	CHOKES COILS (CAPACITOR LOAD) Three Phase	Technical Specification Input Main Voltage: 230/415V Ac. Voltmeter Range: 0-300/500V Ac. Ammeter Range: 5 - 100A Ac. Three Phase Range : 1.25 kw (5 A) Range : 2 kw (8 A) Range : 2.5 kw (10 A)	01	CAPACITOR LOAD TROLLEY Three Phase	Technical Specification Input Main Voltage: 440V Ac. Voltmeter Range: 500V Ac. For each phase Ammeter Range: 10A Ac. For each phase Range: 2.5 kw (10 A) Load trolley should have provision for Star- Delta connection. Total 6 terminals brought out. Trolley should have MCB for ON/OFF operation. It should have wheels for easy movement and perforated sheet for air colling.	01
7.29	CHOKES COIL (INDUCTION LOAD) Single Phase (Range: 1.25 kw (5 A))	Technical Specification Input Main Voltage: 230/415V Ac. Voltmeter Range: 0-300/500V Ac. Ammeter Range: 5 - 100A Ac. Range: 1.25 kw (5 A)	01	CHOKES COIL (INDUCTION LOAD) Single Phase	Technical Specification Input Main Voltage: 230V Ac. Voltmeter Range: 300 Ac. Ammeter Range: 10A Ac. Range : 2.5 kw (10 A) Trolley should have MCB for ON/OFF operation. It should have wheels for easy movement and perforated sheet for air colling.	01
7.30	CHOKES COIL (INDUCTION LOAD) Single Phase (Range: 2 kw (8 A))	Range: 2 kw (8 A)	01	Deleted	Deleted (The item covered in Sl. No. 7.29, hence it is removed)	-
7.31	CHOKES COIL (INDUCTION LOAD) Single Phase (Range : 2.5 kw (10 A))	Range : 2.5 kw (10 A)	01	Deleted	Deleted (The item covered in Sl. No. 7.29, hence it is removed)	-

7.32	CHOKER COIL (INDUCTION LOAD) Three Phase	Technical Specification Input Main Voltage: 230/415V Ac. Voltmeter Range: 0-300/500V Ac. Ammeter Range: 5 - 100A Ac. Three Phase Range : 1.25 kw (5 A)	01	CHOKER COIL (INDUCTION LOAD) Three Phase	Technical Specification Input Main Voltage: 440V Ac. Voltmeter Range: 500V Ac. For each phase Ammeter Range: 10A Ac. For each phase Range: 2.5 kw (10 A) Load trolley should have provision for Star-Delta connection. Total 6 terminals brought out. Trolley should have MCB for ON/OFF operation. It should have wheels for easy movement and perforated sheet for air colling.	01
7.33	CHOKER COIL (INDUCTION LOAD) Three Phase (Range : 2 kw (8 A))	Three Phase Range : 2 kw (8 A) (Please refer Sl. No. 7.30 for product specification)	01	Deleted	Deleted (The item covered in Sl. No. 7.32, hence it is removed)	-
7.34	CHOKER COIL (INDUCTION LOAD) Three Phase Range : 2.5 kw (10 A)	Three Phase Range : 2.5 kw (10 A) (Please refer Sl. No. 7.30 for product specification)	01	Deleted	Deleted (The item covered in Sl. No. 7.32, hence it is removed)	-
7.35	LOAD BANK (RESISTIVE LOAD) Single Phase Range : 1.25 kw (5 A)	Technical Specification Input Main Voltage: 230/415V Ac. Voltmeter Range: 0-300/500V Ac. Ammeter Range: 5 - 100A Ac. Single Phase Range: 1.25 kw(5 A)	01	LOAD BANK (RESISTIVE LOAD) Single Phase	Technical Specification Input Main Voltage: 230V Ac. Voltmeter Range: 300 Ac. Ammeter Range: 10A Ac. Range : 2. kw (10 A) Trolley should have MCB for ON/OFF operation. It should have wheels for easy movement and perforated sheet for air colling.	01
7.36	LOAD BANK (RESISTIVE LOAD) Single Phase Range : 2 kw (8 A)	Range : 2 kw (8 A) (Please refer Sl. No. 7.33 for product specification)	01	Deleted	Deleted (The item covered in Sl. No. 7.35, hence it is removed)	-
7.37	LOAD BANK (RESISTIVE LOAD) Single Phase Range : 2.5 kw (10 A)	Range : 2.5 kw (10 A) (Please refer Sl. No. 7.33 for product specification)	01	Deleted	Deleted (The item covered in Sl. No. 7.35, hence it is removed)	-

7.38	LOAD BANK (RESISTIVE LOAD). Three Phase Range : 1.25 kw (5 A)	Technical Specification Input Main Voltage: 230/415V Ac. Voltmeter Range: 0-300/500V Ac. Ammeter Range: 5 - 100A Ac. 3 Phase Load Bank have the provision for connecting it into 3 phase Star or delta Mode Three Phase Range : 1.25 kw (5 A)	01	LOAD BANK (RESISTIVE LOAD). Three Phase	Technical Specification Input Main Voltage: 440V Ac. Voltmeter Range: 500V Ac. For each phase Ammeter Range: 10A Ac. For each phase Range: 2.5 kw (10 A) Load trolley should have provision for Star-Delta connection. Total 6 terminals brought out. Trolley should have MCB for ON/OFF operation. It should have wheels for easy movement and perforated sheet for air Colling.	01
7.39	LOAD BANK (RESISTIVE LOAD). Three Phase Range: 2 kw (8 A)	Three Phase Range: 2 kw (8 A) (Please refer SI No. 7.36 for product specification)	01	Deleted	Deleted (The item covered in SI. No. 7.38, hence it is removed)	-
7.40	LOAD BANK (RESISTIVE LOAD). Three Phase Range: 2.5 kw (10 A)	Three Phase Range: 2.5 kw (10 A) (Please refer SI No. 7.36 for product specification)	01	Deleted	Deleted (The item covered in SI. No. 7.38, hence it is removed)	-

All other terms & conditions and specifications remain unchanged.

Sd/-
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