



GOVERNMENT POLYTECHNIC, KHAMGAON

WINNER OF ISTE-NARSEE-MONJEE AWARD-2000

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Gram:- POLYTECH

Corrigendum 1: For Enquiry No. : No. : GPK /Store/inst purchase/MED/2019-20/21 Date: 02/01/2020

Dear Sir ,

Please refer above cited enquiry letter of this Institute towards the supply of Machinery and Equipment during 2019-20 . **Kindly note the updates shown in column no 5 below** and do needful. The estimated cost shown in column 5 is inclusive of all taxes , GST, transportation , handling, etc. (inclusive of all).

Sr. No.	Name of the item	specification	Quantity required	Estimated Cost per item in Rs.
1	Real Time Temperature Controller Temperature Controller Test Rig	This module consists of all necessary components to establish a closed loop speed control of temperature process. PLC acts as ON/OFF or PID controller. The details of this module are as follows: • One water bath with heater provided. • One AD-590 temperature sensor with the signal conditioner provided. Output: 0-10Volt. • One Thyristor converter amplifier to provide 0-220 Volt pulsating AC to the heater coil so that linear control can be established. • Input: 0-10Volt, • Output: 0-220Volt • One 3 1/2 digit DPM to display the temperature of water bath. • Application: - To study the temperature control using PLC. - To study the closed loop control using PID mode by varying the proportional, integral, derivative gain in PLC.	1	18750
2	Cylinder Cam With Reciprocating Follower	Working Educational model of Cylindrical cam with reciprocating Follower. - All components made up of metal mounted on wooden base. - Manual input.	1	1700
3	Tangent Cam With Roller Oscillating Follower	Working Educational model. - All components made up of metal which are mounted on wooden base having different colors with naming on each part for easier understanding. - Manual input.	1	2300
4	Disc Cam - With Knife Edge Follower ; Roller Follower ; Flat Face Follower Spherical Surface Follower	Working Educational model. - All components made up of metal which are mounted on wooden base having different colors with naming on each part for easier understanding. - Manual input.	1	1700

5	Wedge Cam With Reciprocating Follower	Working Educational model.- All components made up of metal which are mounted on wooden base having different colors with naming on each part for easier understanding.- Manual input.	1	2300
6	Conical Friction Clutch	Working Educational cut section model. - All components made up of metal which are mounted on wooden base having different colors with naming on each part for easier understanding. - Manual or Motorized input.	1	4500
7	Simple Watt Governor	Working Educational model. - All components made up of metal which are mounted on wooden base having different colors with naming on each part for easier understanding. - Manual or Motorized input.	1	2500
8	Porter Governor	Working Educational model. - All components made up of metal which are mounted on wooden base having different colors with naming on each part for easier understanding. - Manual or Motorized input.	1	4500
9	Hartnell Governor	Working Educational model. - All components made up of metal which are mounted on wooden base having different colors with naming on each part for easier understanding. - Manual or Motorized input.	1	4500
10	Pickering Governor	Working Educational model. - All components made up of metal which are mounted on wooden base having different colors with naming on each part for easier understanding. - Manual or Motorized input.	1	7800
11	Reversing Gear (Reverted Gear Train)	Working Educational model. - All components made up of metal which are mounted on wooden base having different colors with naming on each part for easier understanding. - Manual or Motorized input.	1	5000
12	Geometrical Models Kit	Material Model set for Prism, Pyramid, cylinder cone, Tetrahedron, cube. - All components made up of acrylic. - Liquid filled Acrylic material model set to show section plane at different angles of solids and frustum of solids.	1	2500
13	Model of Dissected solids	Material model set of Dissected solids of Prism, pyramids, cylinder, cone, Tetrahedron, cube. - All components made up of acrylic. -Acrylic material model set of intersection of solids of Cone with cone, Cone with Pyramid, Cone with Prism, Cylinder with Pyramid.	1	2800
14	Abrasive Jet Machine Trainer kit	<ol style="list-style-type: none"> 1) Abrasive material – Al₂O₃/SiC/Glass Beads 2) Abrasive shapes- Irregular spherical 3) Abrasive size – 10-50 4) Mass flow rate- 2~20gm/min 5) Carrier gas composition- Air, CO₂, N₂ 6) Air Jet Velocity- 500-700m/s 7) Pressure – 2-10 bars 	1	40000

		8) Flow Rate – 5-30 lpm 9) Mixing ratio –massfloww ratio of abrasive to gas-Mabr/Mgas 10) Stand –off Distance- 0.5-5mm 11) Impingement angle- 600-900 12) Nozzle-Material – WC/ sapphire 13) Diameter- 0.2-0.8mm 14) Life- 10-300 hrs.		
15	Electrochemical machine setup	Mechining Cell Technical Data : Tool Area – 30 mm ² , Cross head stroke – 150 mm. Job holder – 100 mm opening x 50 mm depth x 100 mm width. Tool feed motor – DC servo type. Control Panel Technical Data : Electrical out put rating 0-300 Amps. DC at any voltage from 0-20 V. Effiency – Better than 80% at partial & full load condition. Power factor _ Better than 85. Protections _ over load, short circuit, single phasing. Operation Modes- Manual/Automatic.Timer – 0-99.9 min. Tool Feed 0.2 to 2 mm/min. Z Axis control – forward, reverse, auto forward/ reverse, through micro controller. Supply -415 v +/- 10%, 3 phase AC, 50 Hz	1	40000
16	Pneumatic Robo arm	AX-12A/AX-18A Smar Robotic Arm Specifications (Standard Arm) 1, Overall length (form base)- 22.25” (56.15 cm) 2.Weight-2.21 pounds/1kg (Standard smart arm-no upgraded) 3.Basse height- 1” (2.54 cm) 4.The base rotation servo is centered in a 4” x 4” square(10.16cm x 10.16cm) 5.Repeatability 2.5 mm 6.Each axis has a 300 ⁰ range with 1024 steps (0-29/step) 7.Initial base angle can be set in 45 ⁰ increments. 8.Precision carbon steel ball bearing turntable. 9.Integratedpem nuts for quick and easy construction. 10.Super strong anodized 0.063 ga. 5052 burshd finished aluminum components. 11.Serch resistant type II anodized in gun barrel gray. 12.(7) Dynamixel AX-12/AX-18 servos (5 axis + 1 gripper with standard smar Robotic Arm configuration, 6-axis with 5-axis upgrade package. <u>Dimensional Information</u> Overall length – 22.26 in/56.54 cm Overall weight –Standard arm with fixed initial angle bracket- 2.0 pounds/1.18 kg Note # 1- Smart Robotic Arm shown with optional 6 axis upgrade. Note#2- With the standard fixed initial angle bracket the base to first fixed angle would b3e	1	25000

	3.375 in/8.57 cm. Grippers- Duel Gripper- The AX-12A or AX-18A dual gripper kit provides a large 9 inch (22.86 cm) gripper % and 6 Axis Upgrades _ 5 – Axis Upgrade Hardware, 5 Axis upgrade dehwh kit <u>Controllers: CM-700 Contrller</u>		
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Principal,
Govt. Polytechnic, Khamgaon.

Copy to :

- 1. Hon. Director ,Directorate of Technical Education M. S. Mumbai for information please. It is requested to do needful for uploading the same on website as per instructions issued*
- 2. Hon. Joint Directorate of Technical Education Amravati Region, Amravati for information please. It is requested to do needful for uploading the same on website as per instructions issued*
- 3. Head of Electronics Department for information and n a*
- 4. Suppliers as list attached herewith through email and by post*
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