

**GOVERNMENT POLYTECHNIC, JAJPUR**  
**AT-RAGADI, VIA-JAJPUR ROAD, JAJPUR, Tel :06726-249107, mob-9437155107,**  
**e-mail : principalgpjajpur@rediffmail.com, web:www.gpjajpur.org**

**NOTICE NO: 2308 /Dt. \_16.11.23**

**QUOTATION CALL NOTICE FOR " Proposal for Equipment/Models for Mechanical Engg dept"**  
 Sealed Quotation are invited from reputed Manufacturers/ Authorized Dealers/ Suppliers for "Proposal for Equipment/Models for Mechanical Engg dept" of **GOVERNMENT POLYTECHNIC, JAJPUR, AT-RAGADI, JAJPUR ROAD, DIST-JAJPUR** under the Directorate of Technical Education & Training, Odisha, Cuttack. Firms shall quote their lowest possible price for starting point from Government Polytechnic, JAJPUR. The quotations received after due date & time will not be entertained. The documents can be *submitted* by speed post/registered post or can be deposited in the office along with GST certificate and Catalog, Price list with detailed specifications of the **GOVERNMENT POLYTECHNIC, JAJPUR** super-scribing "Proposal for Equipment/Models for Mechanical Engg dept" latest by dt. **30.11.23 up to 12 Noon**. The same will be opened in the office chamber of the **Principal, GOVERNMENT POLYTECHNIC, JAJPUR, RAGADI** at **2PM on date 30.11.23**. The Authority reserves the right to accept or reject any or all Quotations without assigning any reason thereof.


**Memo No \_2309 (2)\_ /Dt. \_16.11.23\_\_**


Copy to the notice board of the ADM Office, Jajpur Road /Post Office, Jajpur Road / Ms Aditya Hoisting, Bhubaneswar for publication in their notice board/ in the institution web site through e-mail.

**DEPARTMENT OF MECHANICAL ENGINEERING**

**EQUIPMENT DETAIL**

SL. NO	MODEL/EQUIPMENTS NAME	SPECIFICATION	Price Per each items
1	DIFFERENTIAL MECHANISM OF TRACTOR( MODEL)	Actual cut section model of differential mechanism of tractor mounted on base.	
2	HYDRAULIC BREAKING SYSTEMS OF AUTOMOBILES( MODEL)	Model, a sectionised unit, consists of a master cylinder assembly, wheel cylinder, brake shoes, brake drum and necessary connections. Model is provided with brake lever. Model is mounted on a base.	
3	CUT SECTION MODEL OF CARBURATOR, SOLAX TYPE( MODEL)	Model of Solex type Carburetor Actual cut section model of Solex type carburetor mounted on base.	
4	CUT SECTION MODEL OF CARBURATOR, MARUTI CAR TYPE( MODEL)	Actual cut section model of Maruti car type carburetor mounted on base.	
5	CUT SECTION OF FUEL PUMP(MODEL)	Actual cut section model of Fuel pump mounted on base.	
6	CUT SECTION OF GEAR BOX(MODEL)	Sectionised 4/5 speed gear box with gear operating lever. Model is mounted on a stand	
7	JET CONDENSOR (MODEL)	Model made of wooden and metallic parts.	
8	SPRING LOADED SAFETY VALVE(MODEL)	The demonstration model having two separate valves with one lever bearing loaded by a spring.	

  
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9	JOURNAL BEARING APPARATUS( WORKING)	Journal Bearing Apparatus Fitted with(a) Variable speed D.C. Motor 1.0 HP with rectifier for 220V AC supply. (b) Variac for speed regulation. (c) Bearing approx. 50 mm in dia with equally spaced holes on axial as well as in radial directions for measurement of journal pressure (d) Liquid manometers for measurement of bearing pressures. (e) Provision for measurement of oil flow along axial direction.	
10	CAM FOLLOWER APPARATUS(WORKING)	Model of Cam and Follower Set consists of five different types, mounted individually on separate boards. Model displays circular and displacement of the cams and followers respectively. (a) Plate cam: With reciprocating flat faced follower (b) Tangent cam: With oscillating roller follower (c) Cylindrical cam: With translating follower (d) Translating cam with reciprocating knife edge follower (e) End cam with translating flowe	
11	2 STAGE AIR COMPRESSOR TEST RIG TO DETERMINE MECHANICAL EFFICIENCY	Two stage Air Compressor Test Rig Two stage twin cylinder air compressor with a displacement capacity of about 196 LPM and to work against a maximum working pressure of 12 kgf/cm <sup>2</sup> coupled to 3 HP, 1420 RPM motor (suitable for operation on 3 phase, 50 cycles, 415 volts AC supply) through V belt drive both mounted on a large capacity storage tank. The unit is supplied with pressure switch, safety valve, pressure gauge, water drain valve and air delivery valve etc. Thermocouples with digital temperature indicator are provided for the measurement of different temperature at the inlet and outlet of both cylinders. Experimental capabilities: =. To determine (a) free air delivered by the compressor. (b) Volumetric efficiency of the compressor (c) Mechanical efficiency of compressor	
12	SEARLE'S APPARATUS TO DETERMINE YOUNG'S MODULUS	It comprises two metal frames connected by a link mechanism carrying a spirit level.. The wire under test is held in self centering steel chucks capable of holding wires of 1.2 mm diameter (18 SWG). A Micrometer head reading to 0.01 mm is provided for re-adjusting the sprit level.	
13	VACUUM PUMP SET WITH ACCESSORIES	Oil Lubricant Vacuum Pumps, Single stage, Automotive, Phase-single or double	
14	CHARGING CYLINDER WITH ACCESSORIES	For Complete charging of a domestic refrigerator.	
15	HALIDE TORCH OR ANY LEAK TESTER	Upon detection there is change of blue flame to green - Sensitive detector that support locating leaks as small as 20 ppm of CFC and HCFC refrigerants - Includes leak detector and probe hose - Detects all kinds of Halogenated Gases (Bromide). The unit responds to all halogenated Gases (with Chlorine, Bromine and fluorine included)Single Color LED display with 6-Level Leak Alarm,Real time sensitivity adjustment14 inches (35.5cm) flexible stainless steel probe	

  
 16/11/22  
 Anurag  
 Govt. Polytechnic  
 Raigarh, Jajpur