TENDER NOTICE

For & on behalf of the Governor of Jammu and Kashmir State, Institute Management Committee (IMC) ITI Udhampur intends to purchase Machinery for Motor Mechanic Vehicle and Air Conditioning Refrigeration Trades under PPP Scheme. Sealed tenders duly affixed with revenue stamp Rs. 5-00 are invited from the Registered Firms/Manufactures and their authorized suppliers for supply of Machinery items on the terms and conditions as laid down in the notice, which is available on Website www.itiudampur@gmail.com or Directorate www.jkdte.org. or can be obtained from the office of the undersigned either on Cash Payment of Rs 100-00 or in the shape of Indian Postal order within 21 days from the publication of this notice in the news paper by or before 08-03--2016 upto 4-00 PM. Interested tenderers are advised to submit the tender in two parts, one contains Technical bid s and another price bids with all taxes as admissible under rules as per following details:

- a) Cover- I will contain "Technical Qualification" and Call Deposit Receipt (CDR) Rs. 50,000-00 (Rs. Fifty thousand only) for Annexure-A and Rs. 30,0000-00 (Rs. Thirty thousand only) for Annexure-B.
- b) Cover-II will contain price bids in which bidder/Tenderer shall quote their rates for each item with all taxes in each column in the prescribed format.
- c) Rates will remain valid upto 31-12-2016 for ITI Udhampur only.

Terms and conditions:

- 1. Financial bid of those bidders/Tenderers shall be opened and considered for evolution, who have qualified in technical bid after opening envelop 1.
- 2. Bidder/Tenderer shall provide the proof of past supply and address along with list of similar group of products sold and name of the buyers for proceeding two years.
- 3. Bidder/Tenderer should mention clearly the maximum possible warranty period of the tendered item and shall provide free after sale service during the warranty period in case the bidder is not a manufacturer himself, he has to produce necessary guarantee/warranty certificate of Principal manufacturer for the ordered quality and quantity.
- 4. Bidder/Tenderer shall have to produce Sales Tax/VAT clearance certificate for the proceeding year and latest Income Tax clearance.
- 5. The successful bidder shall have to provide Demonstration of various functions of Machinery where applicable to the identified officials of the Institute at ITI Udampur.
- 6. The rates which are quoted should be attached with the price list of Principal manufacturer.
- 7. In case Bidder/Tenderer is not a manufacturer himself, he should submit original/Xerox letter from manufacturer/Distributor/Dealer/authorizing him to quote rates on his behalf.
- 8. Bid/offer of any Sub-standard item will be treated as rejection of the tender.
- 9. Offers shall be supported by relevant literature, pamphlets, Samples will be sought if and where felt necessary ad same should be kept in state of readiness, so that the same can be provided to the purchase committee, when asked within period of seven days.
- 10. Rates should be quoted strictly inclusive of all Taxes(VAT Entry Tax, other taxes packing etc.) The rates quoted should be F.O.R. ITI Udhampur.

- 11. Tender shall be accompanied with Call Deposit Receipt (CDR of Rs. 50,000/- Rs. Fifty thousand only for Annexure-A and Rs. 30,000/- Rs. Thirty thousand only for Annexure-B from any scheduled Bank pledged to the Member Secretary IMC ITI Udhampur, J&K. The same will be returned in case of unsuccessful.
- 12. The rates should be quoted clearly both in words and fiures without any cuttings/corrections erasing/overwriting. No such rates wherein any cutting/erasing/overwriting found will be considered for comparison.
- 13. Rates shall remain valid upto 31-12-2016 for ITI Udhampur only.
- 14. In case of any doubt, dispute, difference, question arising between tenderer and tendering uthority regarding incorporation of any of the items and conditions of the NIT or any other matter related to right and responsibility of the parties, the same shall be referred to the Director, Technical Education, J&K, for arbitration. His decision in the matter shall be final, conclusive & binding upon the parties.
- 15. The Bids/Tenders should be sent either under sealed registered cover or deposited in the office of the undersigned i.e. Member Secretary IMC Govt. ITI Udhampur J&K State on or before 08-03-2016 against proper receipt on the working days only.
- 16. The tender must be completed in all respects. All the terms and conditions of the tender including Technical Specifications should be carefully studied for the sake of complete and comprehensive offer.
- 17. In case the successful bidder fails to execute the supply of ordered equipment in full. Penalty @ 2% (two percent) of the total cost of order shall be imposed upon him/them.
- 18. In case the ordered equipment is not supplied within the stipulated time, penalty will be imposed upon the defaulter and contract terminated.
- 19. The time of procurement, if DGS&D rates are available for any of the item, the undersigned reserves the exclusive right to procure the same on the rate contract and exclude the item from the tender. In that case, no tenderer has any claim whatsoever over the said item.
- 20. The undersigned reserves the right to accept or reject any tender or part thereof without assigning any reason.
- 21. 90% payment will be released after due inspection/verification of the Machinery and its satisfactory report by the verification committee.

Sd/-(Er. Rajesh Kr. Banotra) Member Secretary, IMC, ITI Udhampur.

No:- ITI/U/IMC/ 2245-48 Dated:-13/2/2016

Copy o the:-

- 1. Chairman, IMC ITI C/O Everest House, Udhampur.
- 2. Director, Technical Education, J&K, Jammu with request for favour of uploading on official website.
- 3. Deputy Director, Technical Education, Jammu.
- 4. Joint Director, Information Department, Jammu for favour of publication of this Tender Notice alongwith Annexure A&B Sin the News Paper in Daily Excelsior/State Times/

ANNEXURE-A MACHINERY/EQUIPMENT FOR Mechanic Motor Vehicle TRADE.

S. No	Name of the item	Specification				
3.110	Nume of the item	Specification	Make	Unit Price	Vat	Entry tax
01	Cut section working	Made out of original parts such as				
	model of single	Flywheel, Pressure Plate, Clutch				
	plate clutch	plates, etc. to demonstrate the				
	assembly	working of clutch assembly. By				
		operating the pedal provided the				
		model can be demonstrated. The				
		entire model is mounted on a				
		sturdy iron frame (Brand New).				
02	Cut section working	Made out of original parts such as				
	model of diaphragm	Flywheel, Pressure Plate, Clutch				
	clutch assembly	plates, etc. to demonstrate the				
		working of clutch assembly. By				
		operating the pedal provided the				
		model can be demonstrated. The				
		entire model is mounted on a				
		sturdy iron frame (Brand New).				
03	Cut section working	Made out of original parts such as				
	model of centrifugal	Flywheel, Pressure Plate, Clutch				
	clutch assembly	plates, etc. to demonstrate the				
		working of clutch assembly. By				
		operating the pedal provided the				
		model can be demonstrated. The				
		entire model is mounted on a				
		sturdy iron frame (Brand New).				
04	Constant mesh gear	Made out of original full size used				
	box with stand for	gearbox, suitably sectioned to				
	dismantling &	show the gear mechanism of				
	assembling:	forward and reverse speeds. A				
		Crank lever is provided to				
		demonstrate the mechanism.				
		Complete unit is mounted on a sturdy iron frame (Brand New).				
05	Full floating axle &	Full Floating				
03	semi floating axle	Made out of original heavy				
	assembly:	vehicle parts, suitably sectioned				
	assembly.	to show clearly the action of				
		Differential gear box, such as				
		pinion crown wheel in Differential				
		and Brake drums in Rear axle, A				
		Crank handle is provided to				
		demonstrate the model. The				
		model is mounted on a sturdy				
		iron frame.				
		Semi Floating				
		Made out of original light vehicle,				
		suitably sectioned to show the				
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		action of Differential gear box and		
		Brake drums in Rear axle. A Crank		
		handle is provided to		
		demonstrate the model. The		
		whole model is mounted on a		
		sturdy iron frame (Brand New).		
06	Cut section working	Made out of original full size		
	model of automatic	automatic transmission gearbox,		
	transmission gear	suitably sectioned to show the		
	box:	gear mechanism of forward and		
		reverse speeds. A Crank lever is		
		provided to demonstrate the		
		mechanism. Complete unit is		
		suitably painted and mounted on		
		a sturdy iron frame (Brand New) .		
07	Working model of	Made out of original new part,		
	torque converter:	will be suitably sectioned to		
		demonstrate the internal		
		construction details showing the		
		minute information, and working		
		of the same, the model will be		
		suitably painted and mounted on		
		a navopan wooden base		
		(Brand New).		
08	Tyre vulcanizing	Vulcanize with double heating		
	machine	plate for the heaviest duty jobs. It		
		has an air-operated system to		
		close the plates monitored by a		
		pressure governor (from 0 to 12		
		bar) and is complete with 60		
		minute timer. The two 600 W		
		heating plates allow tyres of all		
		types to be vulcanized in all		
		positions		
		Single-ph. p. rating V 230, Power		
		1200, Frequency 50 Hz, Pressure		
		bar – 10, Dimensions mm 190 x		
		100, Machine dimensions mm		
		490x200x1000, Weight – Kg 35,		
		Reputed Brand only		

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09	Wheel balancing	Computerized with 16 bit			
	machine with	microprocessor controlled, video			
	accessories	graphic display, cars, lcv's &			
		trucks, automatic detection of			
		tyres, low balancing speed for			
		cars 120 rpm & for trucks 80 rpm,			
		automatic gauge for distance &			
		diameter measuring &			
		applications of adhesive weights,			
		automatic wheel clamping,			
		automatic start / stop, 1 gm			
		resolution for cars & 10 gm for			
		trucks, 3 balancing modes, 7 alu programs, alloy wheel			
		balancing, shift plane / split			
		weight / hidden weight program,			
		emergency stop, safety handle,			
		wheel guard, pneumatic lift, car &			
		truck working rim width setting			
		range 4" to 22", rim dia setting			
		range for cars &trucks 12" to 30",			
		maximum wheel/machine			
		distance 400 mm, maximum			
		wheel width 700 mm, maximum			
		wheel diameter 1220 mm,			
		maximum wheel weight 200 kg,			
		power 320 watts, total wt 255,			
		car balancing speed 120 rpm,			
		truck wheel balancing speed 80			
		rpm resolution 1gm, maximum			
		unbalance value calculated 1990			
		gms, average spin time of wheels			
		for cars 8 sec & for trucks 18 sec,			
		shaft diameter 46 mm CE certified			
		& ISO certified			
10	Cut section of cross	Branded : ceat, MRF, JK , Appolo			
	ply & radial tyres	or equivalent			
11	Drum break	Made out of original parts such as			
	assembly	Two Brake drum assembly, two			
		master cylinder (one sectioned),			
		wheel cylinders (one sectioned),			
		Brake Shoes, etc., the model can			
		be demonstrated by operating			
		the lever provided (Brand New).			
12	Air break assembly	Made out of new original parts			
		such as Air compressor, Unloader			
		valve, foot valve, Booster, Wheel			
		assembly, air tank, control valve			

		etc The Brake system will be			
		fitted with two front wheel			
		assembly complete (with out			
		axle) and the drum will be			
		suitably sectioned to show the			
		working of the brake shoe. Other			
		system will be mounted as it is			
		and will be made to function (
		foot brake, hand brake etc will be			
		functional.)the entire system will			
		be mounted on a sturdy iron			
		frame. A F.H.P Single			
		phase220/230 V AC motor will be			
		coupled to the compressor for			
		generation of the air, which is			
		used for the operation of the			
		model (Brand New).			
13	Electromechanical	Capacity: 4 ton electro			
	two post lift	mechanical two post, very low			
		minimum height 105 mm, quick			
		easy installation & very little			
		maintenance, asymmetric design			
		& angle set posts allow car doors			
		to be opened freely, lifting height			
		1890 mm, lifting time 45 seconds,			
		overall height 2600 mm, overall			
		length 3000 mm, inside columns			
		2125 mm, lowest height 105 mm,			
		motor 4 hp, power three phase			
		415 volt 50 hz CE certified & ISO			
		certified			
14	A.C welding	300 amp with complete			
	transformer	accessories`			
	GAS WELDING:-	One oxygen filled cylinder and			
		one Acetylene filled cylinder,			
		withregulators, pipe 6mts for			
		each cylinder, set of torches, high			
		pressure cutting acetylene torch.			
15	Pipe bending	Hydraulic type 12 mm to 30 mm			
	machine				
16	Alternator assembly	12 volt for light motor vehcle for			
	used for LMV (Brand	study purpose			
	new)				
17	Working condition	4 Stroke , 4 Cylinder 800 cc to			
	model of petrol	1500 cc			
	MPFI engine	Engine should be mounted on			
	assembly with fault	M.S Sturdy frame having four			
	simulation board	wheels for easy shifting and a			
		panel board fitted on frame			
		having Chester unit fitted in panel			
		board . Engine should start from			
		panel board. Brand new engine	 		
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		with excise clearance certificate		
		The maximum parts and		
		accessories like, three cylinder,		
		cylinder head, inlet and exhaust		
		manifolds, carburetor, oil pump,		
		fuel pump, distributor, self		
		starter, water pump etc., are		
		sectioned to show the internal		
		constructional details. Miniature		
		bulbs are provided with each		
		spark plug, to show the sequence		
		of firing order while the engine is		
		run for demonstration, mounted		
		on a sturdy iron frame, coupled to		
		a 1/4 H.P. Single phase, 220/230V		
		AC motor, through a reduction		
		drive unit, to get the slow speed		
		rotation of the flywheel and the		
		engine. (around 15 to 20 rpm).		
		The operation of gearbox		
		assembly and clutch assembly can		
		be demonstrated using the levers		
		provided. (With concerned tool		
		kit)		
18	Ultrasonic injection	Suitable for cleaning 4 injectors,		
	cleaning equipment	ultra sonic bath as standard		
		supply. Power supply AC 220 V,		
		50/60 Hz, total input power		
		250W, Ultra sonic cleaner power		
		100W, simulated rm range 10 to		
		9990 rpm, step 10 rpm, time		
		range 1 sec to 9999 sec, pulse		
		width 0.5 to 25 ms step 0.1 ms,		
		fuel tank capacity 4700 ml.		
19	Fuel feed pumps	of gypsy and Maruti 800 (brand		
		new, latest model)		
20	Air conditioner	Made out of original parts, will be		
	trainer kit	suitably sectioned And Arranged		
		to demonstrate the internal		
		construction details showing the		
		minute information such as AC		
		compressor, condenser, radiator,		
		its pipe lining, blower/fan		
		assembly etc., the model will be		
		suitably painted and The entire		
		model is mounted on a sturdy		
24	Moulting model of	iron frame (Brand New).		
21	Working model of	Made out of original parts, will be		
	power windows	suitably sectioned And Arranged		
		to demonstrate the internal		
		construction details showing the		
		minute information such as motor		

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		and its gear arrangement etc.,			
		and working of the same can be			
		show by connecting it to a			
		battery, the model will be suitably			
		painted and the entire model is			
		mounted on a sturdy iron frame			
		along with Sealed Maintenance			
		Free battery for operation			
		(Brand New).			
22	4 stroke Motor cycle	Made out of full size original 4			
	engine :	stroke motor cycle engine, Gear			
		box, clutch etc The engine is fitted			
		with entire system such as clutch,			
		gear box with Maximum parts			
		and accessories of the engine like			
		piston, self-starter, silencer are			
		sectioned to clearly demonstrate			
		the internal constructional			
		details. The gearbox will be			
		suitable sectioned to			
		demonstrate the gear mechanism			
		and will be coupled to the engine			
		assembly through the Clutch so			
		that by working the engine the			
		entire system of engine to clutch			
		and gear box can be			
		demonstrated working. The			
		whole system is mounted on to a			
		sturdy iron frame, and the frame			
		will be provided with caster			
		wheels for easy movement of the			
		entire model. Suitable color			
		imported painting will be carried			
		out along with Miracle coating for			
		the model will be done for extra			
		gloss and shine. The painting will			
		be carried out in such a way that			
		different colors will be use for			
		different components such as Air,			
		oil, petrol, exhaust identification			
		of sectioned area etc according to			
		the color code for easy			
		identification of different systems			
		and mechanisms. All the			
		hardware's and gears will be			
		suitably electroplated. A switch			
		box with indicator switch should			
		be provided. Engine should be			
		mounted on M.S Sturdy frame			
		having four wheels for easy			
		shifting and a panel board fitted			
		on frame having Chester unit			
		and the state of t		1	<u> </u>

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		fitted in panel board. Engine	ı		
		should start from panel board.	ı		
		Brand new engine with excise	ı		
		clearance certificate.	ı		
		(With concerned tool kit)		 	
23	Four stroke petrol	A Latest CNG model 4 stroke			
	engine with CNG	Petrol Engine Brand New	ı		
	setup in working	supported by excise clearance	ı		
	condition	Petrol Engine of reputed make	ı		
		with all accessories, Battery 12	ı		
		Volt Reputed Brand, Panel	ı		
		Board with Warning	ı		
		Instruments such as Starting	ı		
		Switch, Speed Control Lever.	ı		
		Engine should be mounted on	ı		
		C – Channel Frame spray	ı		
		painted Machine with tyres for	ı		
		easy shifting, manual should	ı		
		be provided with details of	ı		
		machine, accessories,	ı		
		components mounted. The	ı		
		maximum parts and accessories	ı		
		like, three cylinder, cylinder head,	i		
		inlet and exhaust manifolds, self	ı		
		starter, water pump etc., are	i		
		sectioned to show the internal	i		
		constructional details. Miniature	ı		
		bulbs are provided with each	ı		
		spark plug, to show the sequence	i		
		of firing order while the engine is	ı		
		run for demonstration, mounted	i		
		on a sturdy iron frame, coupled to	ı		
		a 1/4 H.P. Single phase, 220/230V	i		
		AC motor, through a reduction	ı		
		drive unit, to get the slow speed	ı		
		rotation of the flywheel and the	ı		
		engine. (around 15 to 20 rpm).	i		
		The operation of gearbox	ı		
		assembly and clutch assembly can	i		
		be demonstrated using the levers	ı		
		provided.	ı		
		(With concerned tool kit)	ı		
24	Functional /	This open demonstration Board is			
47	experimental model	made out of original parts with	ı		
	of different type of	necessary wiring connections to	ı		
	sensors	show the circuit connections. The	ı		
	Sensors		ı		
		entire system will be suitably	i		
		sectioned and mounted on	ı		
<u> </u>		Navopan board.			
25	Air bag	Reputed brand only	ı		
	simulator(Brand		ı		
	new)				

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26	Diesel engine CRDI	4 cylinder: Diesel engine cylinder,			
		4 stroke, CRDI brand new 1200 cc			
		to 1600 cc, 60 BHP, to 120 BHP, at			
		5000/ 6000 rpm, mounted on C			
		frame spray painted having 4			
		caster wheels for easy shifting			
		water cooled along with all			
		accessories ie radiator, fuel tank,			
		alternator, battery, 12 V 60 Ah,			
		starter motor, cooling fan , ECU/			
		necessary gauge charging amp etc			
		with service tool kit.			
27	Diesel engine	Gauge range:0-1000 psi/0-70 bar			
	compressor tester				
	kit				
28	Cylinder bore gauge	of capacity 20 to160mm			
29	Cylinder liners dry	press fit and slide fit liners.			
	and wet liners				
30	Different type of	For motor cycle engine, light			
	pistons model	motor vehicle engine and heavy			
		commercial vehicle			
31	Fuel injecting pump	Four cylinder engine			
	(DIESEL) in line/				
	rotary				
32	Fuel injecting pump	Complete kit			
	dismantling tool kit				
33	Lifting jack screw	3-5 ton and 20 ton capacity			
	type				
34	Arbor press hand operated	Capacity 1 to 2 Ton			
35	Diesel Smoke Meter	Features: 32 Bit Microprocessor			
	with PC:	based smoke exhaust analyzer			
		based on heritage Geometry and			
		micro controller Technology fast			
		warm up and response time			
		relatively smaller in size and			
		lighter in weight . Range Opacity 0			
		to 99.9% RPM 200-9999			
		temperature: 0 deg c to 150 degc			
		Light source green LED			
		commanded by Micro controller			
		for extra long life. Director: Photo			
		diode protected by lens and			
		regulated in temperature.			
		Capacity transducer: Tube of 215			
		mm long regulated in			
		temperature. Display;			
		Alphanumeric LCD Display with			
		backbit for day night operation.			
		Physical response time < 0.234			
		sec Electric response time= 0.94			
			•	•	

		sec communication. via serial port	
		RS 232 software for	
		computerization Operating	
		temperature: 0 deg C-50 deg.c	
		power supply 230 VAC (10%- 15%	
) 50 Hz (+ -2%) or 12 VDC, 70	
		watts. PC to be supplied as std	
		with 21 monitor & Colour printer	
		ARI, CE certified & ISO certified.	
36	Exhaust Gas	Features: 32 bit microprocessor	
	Analyzer with PC:	based exhaust Gas Analyzer, Easy	
		to use bench top design,	
		declaration of conformity to	
		OIML, Class 9) ISO 3930), ideal for	
		fault finding and regulated testing	
		> measures, Co, HC,Co2, O2 , and	
		Lambda, Fast Warm up time and	
		fast response time , RPM and Oil	
		Temperature Measurement, Print	
		result via RS 232 and CNG	
		vehicles. Product standard: OIML	
		class 0, ISO 3930 PC with monitor	
		21" & Colour printer to be	
		supplied as Std accessory.	
		Measured Gases: Using NDIR	
		bench co/C0s/HC Using Electrode	
		- Chemical cells, O2 Lambda: 0.5 -	
		2.0 Power supply: 100-300 V/1	
		Ph/50-60 Hz RPM: 2,4 stroke, DIS	
		2-12 Cyl Warm up time 120 sec.	
		Fuel types: Petrol, LPG, CNG	
		Wright: 5 Kg (Approx) Probe	
		insertion length: 300mm Ambient	
		Operating Range+ 5 deg to + 45	
		deg ARAI approved, CE certified	
		and ISO certified	
37	Turbo charger,	variable turbo charger : Made	
		out of full size original parts,	
		suitably sectioned and to	
		demonstrate the working of	
		turbocharger, is mounted on a	
		suitable base (Brand New).	
26	Ta		
38	Driving simulator	A versatile indoor training	
		simulator for imparting basic and	
		advanced driving skills.	
		Ideal for teaching driving to	
		novice drivers, test drivers of	
		different experience level,	
		conduct refresher training for out	
		of touch drivers.	
		Configurable for light, Medium	

and heavy vehicles with either left or right hand driving options. 120 degree coverage, three monitors, original seat, realistic controls, dashboard assembly, safety belt,gauges, transmission and instrumentation gives real feel. 30 CGI driving scenes of different types of roads, traffic, terrains and environmental conditions with rear and side view mirror insets. Recording/playback of faults committed by the trainee. The trainer can inject on-line faults and obstacles to assess the reactions. Basic system has one instructor station and one driver station. Upto 10 driver station can be controlled by one instruction station. Environmental conditions like rain, fog. snowfall, intensity of light can simultaneously be created. (Reputed brand only) Terepers 40 Air operated duster 11 List of models required for Automobile Engineering: Cut section model of Wankle engine Cut section model of Wankle engine Cut section model of Gear box with differential (Tran-axle, working) Cut section model of Gos box with differential (Tran-axle, working) Cut section model of constant mesh Gear box (Working) Tractor Transmission assembly with gear box, Rockshaft assembly Model of cut sectioned transfer assembly working) Cut section Models of steering gearboxes (Working): recirculating ball type, worm and sector type, EFS, power steering			_			_
120 degree coverage, three monitors, original seat, realistic controls, dashboard assembly, safety belt,gauges, transmission and instrumentation gives real feel. 30 CGI driving scenes of different types of roads, traffic, terrains and environmental conditions with rear and side view mirror insets. Recording/playback of faults committed by the trainee. The trainer can inject on-line faults and obstacles to assess the reactions. Basic system has one instructor station and one driver station. Upto 10 driver station can be controlled by one instruction station. Environmental conditions like rain, fog, snowfall, intensity of light can simultaneously be created. (Reputed brand only) 40 Air operated duster 41 List of models required for Automobile Engineering: Cut section model of synchromesh Gear box, (Working) Cut section model of Gear box with differential (Tran-axie, working) Cut section model of Gear box with differential (Tran-axie, working) Cut section model of constant mesh Gear box (Working) Tractor Transmission assembly with gear box, Rockshaft assembly Model of cut sectioned transfer assembly(working) Cut section models of steering gearboxes (Working): rack and pinion, worm and roller, recirculating ball type, worm and			and heavy vehicles with either left			
monitors, original seat, realistic controls, dashboard assembly, safety belt, gauges, transmission and instrumentation gives real feel. 30 CGI driving scenes of different types of roads, traffic, terrains and environmental conditions with rear and side view mirror insets. Recording/playback of faults committed by the trainee. The trainer can inject on-line faults and obstacles to assess the reactions. Basic system has one instructor station and one driver station. Upto 10 driver station can be controlled by one instruction station. Environmental conditions like rain, fog, snowfall, intensity of light can simultaneously be created. (Reputed brand only) Heavy duty creepers 40 Air operated duster List of models required for Automobile Engineering: Cut section model of Wankle engine chromostation model of Gear box with differential (Tran-axle, working) Cut section model of constant mesh Gear box (Working) Tractor Transmission assembly with gear box , Rockshaft assembly (working) Cut section models of steering gearboxes (Working); rack and pinion, worm and ofler, recirculating ball type, worm and			or right hand driving options.			
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sector type, EPS, power steering						
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		hydraulic, two wheeler steering.
		Cut section model of fully floating
		axle with differential and rear
		mechanism (Working)
		Cut section model of semi-
		floating axle with differential and
		rear mechanism (Working)
		Cut section model of mechanical
		Brake system (working)
		Cut section model of Disc brakes
		system (Working)
		Working model of power
		windows: Made out of original
		parts, will be suitably sectioned
		and arranged to demonstrate the
		internal construction details
		showing the minute information
		such as motor and its gear
		arrangement etc. and working of
		the same can be shown by
		connecting it to a battery, The
		model will be suitably painted
		and the entire model is mounted
		on a sturdy iron frame along with
		sealed maintenance free battery
		for operation. (Brand New)
		Cut section Model of complete
		both sides double wishbone
		suspension with drive shaft.
42	List of training	
	Boards/ Training	Training Platform for hydraulic
	modules:	power steering (Working)
		Demonstration board of ignition
		system of an automobile 4
		wheeler
		Demonstration board of
		Electronic ignition system of an
		automobile 4 wheeler
		Demonstration Board of air
		conditioning system of a car.
		Demonstration board of fuel
		supply system of a Petrol engine .
		Demonstration board of fuel
		supply system of a diesel engine
		Training module for the MPFI
		petrol engine
		Training module for the CRDI
		pump diesel engine
		Training platform for ABS brake
		System

ANNEXURE-B

MACHINERY AIR CONDITIONING & REFRIGERATION TRADE.

S. No	Name of the item	Specification	Make	Unit Price	Vat	Entry tax
1	CRO Single beam	5 MHZ				
2	CRO Dual tacer/double beam	60 MZH				
3	Compressor testers for small hermetic compressors fixed with electrical input/output indicating facilities.	2 Ton				
4	Digital lighting Machine	100 KG				
5	Oxy. Acetylence welding set complete cylinders, regulators welding torches with different nozzles.	For copper and aluminium pipes				
6	Forst free refrigerator carrying with HC blend.	200 L				
7	Bench drilling Machine	20mm (200- 2300rpm)				
8	Evacuating and refrigerant charging station consist of: a) Rotary two stage vacuum pup and motor (with gas ballast and anti such back) b) Manifold with gauges and valves and capable of pulling vacuum upto 50 microns of Hg and with provision of connecting to a microns level vacuum guage. c) Graduated charging cylinder with provision of temperature correction and all necessary isolating valves d) Evacuating and charging station as above cut fitted with weighing scale.	(cap-2 kg in lieu of (b) avove and with accuracy of +/lg for charging hydrocarbons).				
9	Reciprocating compressor, provision of capacity control etc. for demonstration	9000 kcal/hr				

	capacity semi hermetic open type.				
10	Spilt AC with R134a or R 22	15 ton			
	reciprocating compressor.				
11	Heal pump	3000kcal/hr			
12	Cassette Air conditioner	4500kcal with			
		R 404/HR			
13	Screw Compressor	5 TONNE			
14	Bottle Cooler visible carrying with HFC	200 L			
	134a & reciprocating compressor.				
15	Deep Freezer carrying with HFC 134a &	200 L			
	reciprocating compressor.				
16	Walk cooler with open type	3 ton			
	compressor, water coled condenser	capacity			
	providing with PUF insulated room				
	sealed proof sixe 8x8x10 Ft maintain 0.5				
	degree centigrade.				
17	Air conditioning direct and indirect	Including			
	water chiller, Complete with all	humidity			
	controls.	control			
		capacity			
		15000 kcal/hr			
18	Package A/C capacity water cooled type	7.5 ton			
	with open type compressor				
10	reciprocating type. Car AC tutorial model	0			
19		Open type			
20	CRO 1015-D	7.5 ton			
21	Projector latest				
22	C.R.O	(20 HZ-D)			
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Member Secretary, IMC ITI Udhampur.