COMPARATIVE STATEMENT / TECHNICAL PROPOSALS FOR 552(110489) NEW NAME (1086) PROCUREMENT OF EQUIPMENT / MACHINERY, FURNITURE & LIBRARY BOOKS FOR GPIS IN KHYBER PAKHTUNKHWA

DATE OF TENDER OPENING 09-06-2021 (BASIC GEOLOGY AND DRILLING LAB)

		יאט															DRILLING LAB)									
								ervices	, Lahore.	Anmo															ciates, Lah	ore
Item	Name of Items	C.	<u>.S</u>	P	.c	P.I	L.P	Т		C.:	S	P	.c	P.L	P	Т		C.:	S	I	P.C		P.L	L.P	T	
No.	Name of Items	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model	40	5	5	2	2	4	4	60	Model
1.	Hydrometers API	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	-	4	49	China	40	-	5	-	-	-	4	49	China
	1-11API																									
	9-21API																									
	19-31API 29-41API																									
	39-51API																									
	49-61API																									
	59-71API																									
	69-81API																									
	79-91API																									
	89-101API																									
2.	Say bolt Viscometer (Universal Orifice)	40	-	5	-	-	4	49	LOCAL	40	-	5	-	4	4	53	ASC-PT-3010 PAK	0	0	0	0	0	0	0	0	Not Quoted
İ	DIGITALSTOPWATCH, hand-held, 0.1s resolution,																									
	SAYBOLT VISCOSITY KIT (E102), comprises Cup																									
	Adaptor (sty 2),																									
	Say bolt viscometer Cup (sty 2),																									
	Universal Orifice Tip (sty 2),																									
	Withdrawl Tube,																									
	Thermometers 0-150c (qty 2),																									
	Thermometer Support (qty 2),																									
	Filter Funnel,																									
i	60ml Receiving Flask (qty 2),																									
i	Displacement Ring (qty 2),																									
	Cover (qty 2),																									
i	Spirit Level (qty 2). 1000W heater, Cooling coil																									
3.	Saybolt Viscometer (Furrol Orifice) (40		5			4	49	LOCAL	40		5		4	4	53	ASC-PT-3011 PAK	0	0	0	0	0	0	0	0	Not Quoted
J.	Petrotest / Equivalent)	40	_)	_	_	4	49	LOCAL	40	_)	-	4	4	33	ASC-F1-SUTTFAK	U	0	U	U	١	U	U	U	Not Quoted
İ	DIGITALSTOPWATCH, hand-held, 0.1s resolution,																									
	SAYBOLT VISCOSITY KIT (D88), comprises Cup																									
	Adaptor (qty 2),																									
	Saybolt Viscometer Cup (qty 2),																									
	Furrol Orifice Tip (qty 2),																									
ĺ	Withdrawl Tube,																									
	Thermometers 50-300c (qty 2),																									
	Thermometer Support (qty 2),																									
	Filter Funnel,																									
	60ml Receiving Flask (qty 2),																									

1.	Engr. Fazli Saeed,
	Lecturer (Chemical) GCT, Peshawar

			Ele	ctrica	al Eng	ginee	ring S	Services	s, Lahore.	Anmo	ol Sci	entif	ic Coı	porati	on, L	ahore					Al- V	Vaqa	s Ass	ociates,	, Lahore
Item		C.	.S		.c		L.P	Т		C.:			P.C	P.L		Т		C.	.S		P.C	P.	L.P	Т	
No.	Name of Items	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model
	Displacement Ring (qty 2), Cover (qty 2), Spirit Level (qty 2). 1000W heater, Cooling coil																								
4.	ASTM Distillation Apparatus With ISO 3405-2007 Distillation range, ambient to 400°C Mains supply 220 V Heater power 750 W Overall dimensions (W x D x H) 450 x 450 x 535 mm	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PT-3012 PAK	40	-	5	-	-	4	49	SYD-6536 China
5.	Microscope Microscopes can be equipped for phase contrast or dark field applications. • Solid and stable stand • SMP semi-plan and PL plan DIN objectives for a high resolution and a flat image • Inverted equipped with infinity-type objectives • Compensating KHWF 10x DIN eyepieces – field no. 20 – correct the image of the objective and produce a large field of view • Flat-top mechanical stage – fitted with ball-bearings – 171 x 140 mm	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PT-3013 PAK	39	-	5	-	-	4	48	XJP-6A China
6.	Vernier Caliper (digital) With inside , outside and depth = 150 mm measurement range	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PT-3014 PAK	40	-	5	-	-	4	49	China
7.	Mud Balance 4-Scale Mud Balance, Machined ARM, Complete W/Case	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PT-3015 PAK	40	-	5	-	4	4	53	YM-3 China
8.	Marsh Funnel 12-Mesh Half Circle Screen Plastic Measuring Cup, 1000 mL Stainless Steel Measuring Cup, 1000 mL Thermometer w/Metal Dial, 5" Stem, 0-220°F Thermometer w/Metal Dial, 5" Stem, Dual Scale, 50/500°F, 0/250°C	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53.	ASC-PT-3016 PAK	37	-	5	-	-	4	46	MLN-4 China

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Item	N. 611	C.			.c		L.P	Т		C.9	S	F	P.C	P.L	Р	Т		C.	.S		P.C		L.P	Т	
No.	Name of Items	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model
	T-Handle Reamer 3/16" Digital Stopwatch																								
9.	Filter Press Filter Press With Dead Weight Assy	40	-	5	-	4	4	53	ZNS-5A China	40	-	5	-	4	4	53	ASC-PT-3017 PAK	0	0	0	0	0	0	0	Not Quoted
10.	DIGITAL MICROMETER For direct reading to 0.01 mm carbide tipped anvil & spindle , face lightly polished, friction –locking device, suitable for With inside , outside and depth = 150 mm measurement range	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PT-3018 PAK	40	-	5	-	-	4	49	China
11.	Redwood Viscometer 1 VISCOSITY KIT (IP 70), comprises No. 1 Cup Adaptor (qty 2), Redwood No. 1 Viscometer Cup (qty 2), Clip (qty 2), Kohlrausch Flask (qty 20), Cup Cover (qty 2), Spirit Level (qty 2). Thermometer	40	-	5	-	-	4	49	Local	40	-	5	-	4	4	53	ASC-PT-3019 PAK	0	0	0	0	0	0	0	Not Quoted
12.	Redwood Viscometer 2 VISCOSITY KIT (IP 70, BS 434), comprises No. 2 Redwood Adaptor Key, IP 70 Viscometer Cup (qty 2), BS 434 Viscometer Cup (qty 2), Clip (qty 2), Kohlrausch Flask (qty 20), Cup Cover (qty 2), Spirit Level (qty 2). Thermometer	40	-	5	-	-	4	49	Local	40	-	5	-	4	4	53	ASC-PT-3020 PAK	0	0	0	0	0	0	0	Not Quoted
13.	Pensky Marten Flash and Fire Point Apparatus Method:Pensky-Martens Closed Cup Tests: P-M Procedures A, B & C GB/T 261 Search mode for unknown samples Temperature Range: Ambient to 400°C Barometric Correction: Automatic Bath: Solid Block/Air Heating: Bottom and side heaters	40	-	5	-	4	4	53	SYD-261 China	40	-	5	-	4	4	53	ASC-PT-3021 PAK	39	-	5	-	4	4	52	K16273+K16225 -250- 000-09C +250-000-10C KOEHLER USA

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Item	Name of Items	С	.S	P	.C	P.	L.P	T		C.:	5	F	P.C	P.L	.Р	Т		C.	S	P.C	P	.L.P	Т	
No.	Name of Items	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model	40	5 5	2	4	4	60	Model
	Post Test Cooling: Fan assisted or Forced Air (Requires 34008-0 Cooling Boost Module option) Post Test Cool-down Time (90°C to 50°C): 36 minutes (Fan) 6 minutes (Forced Air) Ignitor: Quick-fit coaxial gas jet/electric hot wire, user selectable (Electric hot wire pilot light for gas jet) Temperature Probes: Class A Platinum Resistance Thermometer, °C or °F Flash Detection: Thermocouple Stirrer Speed: 105 & 250 rpm Gas Supply (gas jet ignitor): Laboratory gas, 3kPa (0.44psi) maximum pressure Air Supply (forced air cooling):Dry compressed air, 670kPa (100psi) maximum pressure Voltage: 220/240V, 50/60Hz, (switchable)																							
14.	Cleveland Flash and Fire Point Apparatus RAMP CONTROLER, for optional automated temperature control. PROBE ASEMBLY, for use with 13663-0, (Cleveland). BUTANE REFIL CONTAINER, pack of 10. PORTABLE GAS TANK, with on/off switch regulator and ignitor. Suitable for use with Butane refill containers. , portable fume extractor and draught excluder, excluding flexible ducting. PORTABLE DIGITAL BAROMETER, 750 to 1150 mbar absolute, : Temperature range: Ambient to 400°C Power: 600W maximum Ramp Rate:Variable, manually controlled Voltage: 220/240V, 50/60Hz	40	-	5	-	4	4	53	SYD-3536 China	40	-	5	-	4	4	53	ASC-PT-3022 PAK	0	0 0	0	0	0	0	Not Quoted
15.	Cloud and Pour Point Apparatus (Refrigerated) 0,-17,-34,-51 4 liter cooling bath with cover, which is equipped with an opening for one air jacket, a stopper and a borehole for thermometer.	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PT-3023 PAK	40	2 5	-	-	4	51	SYD-510D China

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Item		C.	.S		.c		L.P	Т		C.9	5	F	P.C	P.I	Р	Т		C.	S	P.C		P.L.P	Т	
No.	Name of Items	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model	40	5 5	5 2	4	4	60	Model
	Supplied with: 1 test jar 10 spacer rings 1 insulating plate 1 air jacket 2 thermometer (ASTM 5C and ASTM 6C)																							
16.	Thin Film Aniline Point Apparatus ASTM-test tube, jacket tube, ring-shaped hand stirrer with sleeve, 2 bored corks, one each pipette (5 ml and 10 ml), rubber suction bulb, stand with fixtures and 1 thermometer each ASTM 33C, ASTM 34 C and ASTM 35C. Along with Hester	40	-	5	-	-	4	49	Local	40	-	5	-	4	4	53	ASC-PT-3024 PAK	40	1 5	-	4	4	54	K10191+K10029+250- 000-33C +250-000-34C +250-000-35C KOEHLER USA
17.	Carbon Residue Apparatus (Canradson) Porcelain Crucible, wide form, glazed throughout, or a silica crucible; 29- to 31-mL capacity, 46 to 49 mm in rim diameter. Iron Crucible— Skidmore iron crucible, flanged and ringed, 65- to 82-mL capacity, 53 to 57 mm inside and 60- to 67-mm outside diameter of flange, 37 to 39 mm in height supplied with a cover without delivery tubes and having the vertical opening closed. The horizontal opening of about 6.5 mm shall be kept clean. The outside diameter of the flat bottom shall be 30 to 32 mm. Iron Crucible— Spun sheet-iron crucible with cover; 78 to 82 mm in outside diameter at the top, 58 to 60 mm in height, and approximately 0.8 mm in thickness. Place at the bottom of this crucible, and level before each test, a layer of about 25 mL of dry sand, or enough to bring the Skidmore crucible, with cover on, nearly to the top of the sheet-iron crucible. Wire Support— Triangle of bare Nichrome wire of approximately No. 13 B & S gage having an	0	0	0	0	0	0	0	Not Quoted	40		5	-	4	4	53	ASC-PT-3025 PAK	40	- 5	;		4	49	SYD-268 China

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Item	N	С	.S	Р	.c	P.I	L.P	T		C.:	5	F	.c	P.L	Р	Т		C.	.S		P.C	P.	L.P	T	
No.	Name of Items	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model
	opening small enough to support the bottom of the sheet-iron crucible at the same level as the bottom of the asbestos block or hollow sheet-metal box . Hood—Circular sheet-iron hood from 120 to 130 mm in diameter the height of the lower perpendicular side to be from 50 to 53 mm; provided at the top with a chimney 50 to 60 mm in height and 50 to 56 mm in inside diameter, which is attached to the lower part having the perpendicular sides by a coneshaped member, bringing the total height of the complete hood to 125 to 130 mm. The hood can be made from a single piece of metal, provided it conforms to the foregoing dimensions. As a guide for the height of the flame above the chimney, a bridge made of approximately 3-mm iron or Nichrome wire, and having a height of 50 mm above the top of the chimney, shall be attached. Insulator—Asbestos block, refractory ring, or hollow sheet-metal box, 150 to 175 mm in diameter if round, or on a side if square, 32 to 38 mm in thickness, provided with a metal-lined, inverted cone-shaped opening through the center; 83 mm in diameter at the bottom, and 89 mm in diameter at the top. In the case of the refractory ring no metal lining is necessary, providing the ring is of hard, heat-resistant material. Burner, Meker type, having an orifice approximately 24 mm in diameter.																								
18.	Reid Vapour Pressure Apparatus (Seta-Stanhole / Equivalent) Vapor Pressure Vessel - REID Gasoline (Wet-Method): ASTM D 323-A+B+D, ISO 3007-A+B+D, IP69-A+B+D Gasoline-Oxygenate Blends (Dry-Method): ASTM D 4953-A For a pressure less than 1.8 bar (180 kPa) Consisting of:	40	-	5	-	-	4	49	Local	40	-	5	-	4	4	53	ASC-PT-3026 PAK	39	-	5	-	4	4	52	K11459+K11500+311- 030-002 +250-000-18C +K11800+K11810+37 1-000-002+K112B-1- 0-12 KOEHLER USA

1.	Engr. Fazli Saeed,
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	Electrical Engineer C.S P.C P.L					ering	Service	s, Lahore.	Anmo	l Scie	entif	ic Cor	poratio	on, La	ahore				Al-	Waqa	s Ass	ociates	, Lahore
Item	Name of Items	C.	.S	P.C	F	P.L.P	Т		C.:	S	F	P.C	P.L	.P	Т		C.	S	P.C	Р	.L.P	T	
No.	Name of Items	40	5	5 2	2 4	4	60	Model	40	5	5	2	4	4	60	Model	40	5 5	2	4	4	60	Model
	liquid chamber (valveless) made of stainless steel, air chamber with G 1/2" female manometer coupling and lowering chain Thermostatic Bath REID/LPG, 3-place (round shape) Consisting of: bath made of stainless steel with digital thermost and a thermometer ASTM 18C (+34 bis +42: 0.1°C) for tempering 1 to 3 vapor pressure vessel Power supply: 230 V, 50/60 Hz Manometer ASTM-35 twin-scale (analog) Range: 35 kPa / 5 psi (0.35 bar) Accuracy: class 1 Housing: Ø 100 mm, stainless steel with handle, parts with sample contact are of Cu-Sn/Mn alloy Coupling: NPT 1/4" male thread																						
19.	ASTM Distillation Apparatus Distillation Flask 1000ml. Electrical Heater 1000W, Water Cooled Condenser, Thermometer, Receiving Cylinder, Corks	40	-	5 -	- -	4	49	Local	40	-	5	1	4	4	53	ASC-PT-3027 PAK	0	0 0	0	0	0	0	Not Quoted
20.	Centrifugal Machine Speed 1500rpm 6 sample holder Power Supply 220-240 v	0	0	0 (0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PT-3028 PAK	40	- 5	-	-	4	49	LC-4KII China
21.	Smoke Point Apparatus Comprises a tripod stand, lamp body, and chimney. The measuring scale is viewed through a curved glass window on the front of the instrument. A mirror can be attached to the chimney to aid smoke detection. SUPLIED WITH: candle assembly and certified wick. MIROR, for fixing to chimney to detect first indication of smoke. WICK TRIMMER, inserts wick and automatically	40	-	5 -		4	49	SYD-382 China	40	-	5	-	4	4	53	ASC-PT-3029 PAK	39	- 5	-	4	4	52	K27000+K27021+K270 50+K27065+K27060 KOEHLER USA

1.	Engr. Fazli Saeed,
	Lecturer (Chemical) GCT Pechawar

	Electrical Engine					jineei	ring S	Services	, Lahore.	Anmo	l Scie	entifi	ic Cor	porati	on, La	ahore					Al- V	Vaqa	s Ass	ociates	Lahore
Item		C	:.S		P.C		L.P	Т		C.9			P.C	P.L		Т		C.	S		P.C		L.P	Т	
No.	Name of Items	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model
	sets to correct length INSTRUMENT CASE, for lamp assembly, stand and five candles WICK EXTRACTION APPARATUS comprises a 60ml soxhlet extractor, condenser, 500ml glass flask, flask heater, stand and clamp. Power: 200W Voltage: 220/240V, 50/60Hz																								
22.	Muffle Furnace General Characteristics Metal housing with paint protection. Built with low density refractory bricks and isolanting fibers. It is compossed of 1 or 2 heating plates with incorporated KANTAL AF thread resistance, covered and protected, placed on the bottom or on both sides. Minimum heat and extreme temperature loss. Chamber built with TRITTON KAOWOOL ceramic fiber. Ceramic tray included: HD-200. Side or front opening door, easy to load and withdraw materials. Manufactured according to CEE standards. Furnace Control HD-200: Placed in the lower part of the furnace. Line supply cor incorporated. Safety Execution Modes PAD adjustment: automatic digital pyrometer. Microprocessor. Alarma. POD parameters. Nonvolatile. Parameters: Room HEIGHT 120 WIDTH 150 DEPTH 200 Exterior	40	2	5		4	4	55	JMF-50 Taiwan	40	-	5		4	4	53	ASC-PT-3030 PAK	40	2	5			4	51	JMF-50 Taiwan

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			Ele	ctrica	l Eng	jinee	ring S	Services	s, Lahore.	Anmo	ol Sci	entif	ic Cor	poratio	on, La	ahore					Al- V	Naqa	s Ass	ociates,	Lahore
Item	Name of Items	C.	.S	P	.c	P.	L.P	T		C.:	S	F	P.C	P.L.	.P	Т		C.	S	F	P.C	P.	L.P	T	
No.	Name of Items	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model
	HEIGHT 340 WIDTH 450 DEPTH 430 Volume dm3 3,6 Power W 1200 Voltage 220 v.ll Maximum Temperature 1100 deg C																								
23.	HORIZONTAL FLOW OVEN Specification: Capacity: 105 Liters Temperature Range: Ambient+5degree C to 250degree C Sensor PT100 Control: Digital Fuzzy Control Display: Digital LCD with Back-Light Function Timer: 99hr 59min (Delay&Continuous Function Included)	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PT-3031 PAK	40	-	5	-	-	4	49	BOV-V125 BIOBASE China
24.	Burning Test Lamp Comprising a fabricated sheet metal oil reservoir, brass burner, glass chimney and wick. SUPLIED WITH: two spare chimneys and a pack of 10 certified wicks. FLAME GAUGE, A gauge for measuring the height and width of a flame. Mounted on a tripod base and adjustable height support column. Hinged and adjustable with stops for true horizontal and vertical readings.	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PT-3032 PAK	0	0	0	0	0	0	0	Not Quoted
25.	Manual Universal Penetrometer A semi-automatic penetrometer with a range of 0 to 40mm (400 Pen). Plunger release and retention is controlled by a solid state timer which can be set for penetration times of 5, 8, 10, 12, 30 and 60 seconds. The head is fitted with a two speed elevating mechanism for quick and precise positioning of the penetration tip. Penetration is shown on a150mm dial, graduated 400 x 0.1mm increments, equipped with a slipping clutch pointer. The machined aluminium base is fitted with a flexible light with dimmer switch, and a spirit level. SUPPLIED WITH: 47.5g plunger, 50g and 100g	39	-	5		4	4	52	CT-A China	40	-	5	-	4	4	53	ASC-PT-3033 PAK	39	-	5	-	-	4	48	K16500+K20500- 00000+388001- 003+388-001- 006+357000-001 Koehler USA

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			Ele	ctrica	al Eng	ginee	ring S	Services	s, Lahore.	Anmo	ol Sci	entif	ic Co	rporati	on, L	ahore					Al- V	Vaqa	s Ass	ociates	, Lahore
Item	N. CI	С	s	P	P.C	P.	L.P	Т		C.:			P.C	P.I		Т		C.	S	F	P.C		L.P	T	
No.	Name of Items	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model
	plunger weights, mains lead and instruction manual. SPECIFICATIONS Penetration Range: 0 to 400 Pen (40mm) Penetration Time: 5, 8, 10, 12, 30, 60 seconds, selectable Retention/Release: Automatic Display: 150mm dial, 400 x 0.1mm increments Voltage: 220/240V, 50/60Hz (switchable) Power:45W Saybolt Chromometer A colorimeter with an integral light source, for visual determination of the colour of highly refined, un-dyed liquid petroleum products, including gasolines, jet fuels, napthas and kerosines. Comprises of a graduated glass sample column with a clear glass base,	40	5	5		0	4		Model Not Quoted	40	5	5		4	4	53	ASC-PT-3034 PAK	40	5	5	2	4	4	53	Model K13009+K13019+279- 230-002 Koehler USA
	and a plain glass tube with a three position turret containing colour filter discs. An eyepiece provides a split-field view of both the column and tube. Illumination is from a light source in the base of the unit. The height of a column of sample is adjusted until it matches the colour disc in the reference tube. The height is then read off the graduations and expressed in Saybolt units. SUPPLIED WITH: 3 whole-colour filter discs and 1 half-colour filter disc, daylight filter, mains lead and instruction manual. SPECIFICATIONS Voltage: 220/240V, 50/60Hz Power: 60W Weight: 4.8kg Fuses: 2 x 0.5A CERTIFIED COLOUR STNDARDS 'O' RING, Viton, pack of 5. BULB, 60W, pack of 2																								

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Item		С	i.S		.c	_	L.P	Т		C.:			P.C	P.I		Т		C.	.S		P.C		L.P	Т	
No.	Name of Items	40	5	5	2	4	4	60	Model	40	5			4	4	60	Model	40	5	5	2	4	4	60	Model
		40	3	3		-	4	00		40	3	3		4	*	00		40	3	3		4	4	00	
27	GASKET, for tube, pack of 12	40		5			4	40	10641	40		-		4			ACC DT 2025	40		_			4	40	CVD FOOCA CL:
27.	Copper Strip Corrosion Test (Seta-Stanhole / Equivalent) to be composed of: - Copper Strip Corrosion Apparatus - Silicon Carbide Grit Paper - Copper Strip Corrosion Standards Technical Data Temperature Range: ambient to 200 °C Stability: +/- 0.1 °C Bath Volume: 20 liters	40	-	5	-		4	49	LOCAL	40	-	5	-	4	4	53	ASC-PT-3035 PAK	40		5	-		4	49	SYD-5096A China
28.	Bending Apparatus high-grade stainless steel housing with two-color powder coating, measuring head with bending mechanism, automatic fixture and adjustment of test plaques; test chamber cooled by solid-state components (Peltier-elements), chamber ventilator, touch-key panel with large LC-display visible up to 10 m distance for measured values and user guidance for temperature pre-selection and test- plaque clamping. Supplied with: 10 test-plaques (41 x 20 x 0.15 mm) 1 insulated hose-set (Ø 8 mm, 2 x 2 m) Power supply: 230 V, 50/60 Hz, 450 W, 2 A, Circulation Cooler: as auxiliary refrigeration of the Peltier-elements. Measuring Range: Resolution: 10 mN Temperature: -45 °C to +60 °C (dependent on cooling circuit temp.)	40	-	5	-		4	49	LOCAL	40		5	-	4	4	53	ASC-PT-3036 PAK	0	0	0	0	0	0	0	Not Quoted
29.	Ring and ball Softening Point Apparatus electric heater in stainless steel housing with electronic power regulator, 4 heater rods, electric stirrer and support for two test rings. Supplied with: 10 rings (shouldered)	40	-	5	-	-	4	49	LOCAL	40	-	5	-	4	4	53	ASC-PT-3037 PAK	0	0	0	0	0	0	0	Not Quoted

1.	Engr. Fazli Saeed,
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			Elec	ctrica	l Eng	inee	ring S	Services	s, Lahore.	Anmo	l Sci	entif	ic Cor	porati	on, La	hore					Al- V	Vaqa	s Ass	ociates	, Lahore
Item	Name of Items	C.	.S	P	.C	P.I	L.P	Т		C.:	S	F	P.C	P.L	Р	Т		C.	S	F	P.C	P.	L.P	Т	
No.	Name of Items	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model
	10 load balls 2 ball centering guides 2 thermometers (precision made, 1x ASTM 15C, 1x ASTM 16C) 1 glass-beaker bath (600 ml) 1 heater support board (50 mm bored) 1 mortar with pestle 1 pouring plate (brass)																								
30.	Water Content by Dean and Stark Apparatus Consisting of: 1 round flask (500 ml), standard taper (NS 29) 1 glass trap (10 ml), standard taper (NS 29) 1 reflux condenser (400 mm), standard taper (NS 29) Supplied with: 1 electric heater (800 W), stainless steel housing 1 heating board (center hole Ø 70 mm) 1 support rod (600 mm) with 4 adjustable clamps Power supply: 230 V, 50/60 Hz	40	-	5	-	-	4	49	SYD-260 China	40	-	5	-	4	4	53	ASC-PT-3038 PAK	0	0	0	0	0	0	0	Not Quoted
31.	Gum Content By Jet Evaporation Consisting of: Housing of stainless steel with strong temperature insulation. Safety-Multifunction Head for simultaneous positioning of all 5 pre-adjusted inlet-tubes to pre-heating or working-position. The handle is in a position where air is not hazardous to operator. 5-place metal heating block. Manual air supply control valve, manometer with preset calibration marks for airflow at 163°C and 233°C, digital electronic heating block control, over-temperature protection for the block. Supplied with: 10 glass beakers 1 thermometer 1 pressure reducer with filter and hose 1 tong, made of stainless steel Power supply: 230 V, 50/60 Hz Temperature Range: ambient to +246°C - Air Volume Set: flow-meter (range: 1.4 17.6	40	-	5	-	-	4	49	SYD-8019A China	40	-	5	-	4	4	53	ASC-PT-3039 PAK	40	2	5	-	4	4	55	K33781+332-002-017 +250-000-03C +332-00220+K33800- 1 Koehler USA

1.	Engr. Fazli Saeed,
	Lecturer (Chemical) GCT, Peshawar

	Name of Items	Electrical Engineering Services, Lahore.									Anmol Scientific Corporation, Lahore								Al- Waqas Associates, Lahore							
Item No.		C.S		P.C		P.L.P		T	Т		5	P.C P.		P.L	Р	Т		C.S		P.C	F	P.L.P				
		40	5	5	2	4	4	60	Model	40	5	5	2	4	4	60	Model	40 !	5 5	2	4	4	60	Model		
	m3/h)																									
	with stand																									
	- Strainer gauze, pack of 20 - Uniformity Test Set																									
	for Air: special adapter and flow-meter																									
	- Officially certified thermometer ASTM 3C / IP																									
	73C																									
	Thermometer ASTM 3C																									
	Range: -5 to +400 : 1 °C																									
	Length: 415 mm, Immersion: 76 mm, Ø 6.5 mm																									
	Strainer Gauze, metal, pack of 20																									
	Beaker, Berzelius, 100 ml, glass, pack of 10 Ø																									
	50 x 78mm																									
	Heating Element , Power supply: 230 V (for dry																									
	heat bath)																									
	Conical Air-Outlet (for dry heat bath)																									