

2nd List

**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(Fluid Mechanics Lab)**

Item No.	Name of Items	Electrical Engineering Services, Lahore.							Anmol Scientific Corporation, Lahore							ESOLS MULTAN									
		C.S		P.C		P.L.P		T	Model	C.S		P.C		P.L.P		T	Model	C.S		P.C		P.L.P		T	MODEL
		40	5	5	2	4	4	60		40	5	5	2	4	4	60		40	5	5	2	4	4	60	
1.	Hydraulic Bench <ul style="list-style-type: none"> Self contained fully mobile unit, with flat top area for conduct of different practicals. Corrosion resistance glass reinforce plastic. Sump tank capacity: 140~250 litres. Volumetric tank <ul style="list-style-type: none"> Height of working surface above floor level: one meter. Pump: centrifugal type/submersible: Max flow : 1 to 1.35 L/sec. Power supply 220-240V, 50 Hz, single phase. It should be provide means for mounting and connecting accessories for experiments as listed below: <ul style="list-style-type: none"> Flow over weir Losses in pipe Bernoulli's theorem Hydrostatic pressure Complete with accessories: stop watch. Pump with on-off switch. Control valve, quick release pipe connector at bench top, water level indication scale. dump valve etc and instruction manual	40	1	5	-	4	4	54	FMH149-02 FMH149-04 FMH149-07 FMH149-49 EES-pak	40	-	5	-	4	4	53	ASC-PM 3040 Pak	40	0	5	0	4	4	53	SMT-FM-100PAK
2.	Venturimeter Apparatus <ul style="list-style-type: none"> Transparent acrylic. Manometer range 0 to 290/300mm. No. of transparent manometer tubes 8 to 11. Throat diameter: 10-12 mm. Complete with:	40	2	5	-	4	4	55	FM-1849-19 EES-Pak	40	-	5	-	4	4	53	ASC-PM 3041 Pak	40	0	5	0	4	4	53	SMT-FM-01 PAK

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

2. Engr. IatizazHassan, _____
Lecturer (Petroleum) GPI, Karak

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		40	5	5	2	4	4	60		40	5	5	2	4	4	60		40	5	5	2	4	4	60	
	manometer tubes; manifold with air bleed valve; base plate with foot screws; plastic outlet tube; flow regulator valve; and instruction manual. Compatible with Hydraulic Bench.																								
3.	Manometer (U-Tube) Free water manometer, standard length one meter, glanded glass manometer tubes, engraved plastic scale, calibrated in metric units.	40	-	5	-	4	4	53	FM-1849-111 EES-Pak	40	-	5	-	4	4	53	ASC-PM 3042 Pak	40	0	5	0	4	4	53	(SMT-FM-01-D) PAK
4.	Pitot Tube <u>Experimental Capabilities:</u> • Static and Dynamic pressure measurement • Determination of velocity profile in a tube flow • Pitot static tube complete with scale for positioning within the tube • Pipe section made of transparent acrylic • Manometer • Hose Coupling Compatible with hydraulic bench.	40	-	5	-	4	4	53	FMH-149-112 EES-Pak	40	-	5	-	4	4	53	ASC-PM 3043 Pak	40	0	5	0	4	4	53	SMT-FM-19
5.	Bourden Gauge Pressure Gauge (Bourdon Type) Dial Size 4 inch only Ranges 0 to 400 Psi (-)1 to 0 kg/cm ² or (-)760 mm HG Vac. (-)1 kg/cm ² or (-)760 mm Hg to 15 kg/cm ² Standard Accuracy ± 0.25% of F S D Master gauge – 200 mm dial size with all Stainless steel internal & system ± 0.5% of F S D Test gauge – Available 200 mm dial size with all stainless Steel internals & systems ± 1% of F S D Quality gauge – 200 mm dial size with all Stainless steel internals & system. ± 2% of F S D Quality gauge – 200 mm dial	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PM 3044 Pak	NOT QUOTED							NOT QUOTED

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		40	5	5	2	4	4	60		40	5	5	2	4	4	60		40	5	5	2	4	4	60	
	size with all Stainless steel internals. Standard Degree of Protection 1P-65 Sensing Element Bourdon Tube Shape of Bourdon Tube In C P < 100kg/cm2																								
6.	Centrifugal Pump Suction Head 2 inch dia. Closed Impeller Mounted with one phase motor	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PM 3045 Pak	40	0	5	0	4	4	53	SMT-FM-23-B PAK
7.	Reciprocating Pump (Double Acting) Suction Head 2 inch dia Mounted with one phase motor	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PM 3046 Pak	40	0	5	0	4	4	53	(SMT-101-98) PAK
8.	Rotary Pump Suction Head 2 inch dia Mounted with one phase motor	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PM 3047 Pak	40	0	5	0	4	4	53	SMT-101-78 PAK
9.	Centrifugal Compressor Suction Head 2 inch dia Mounted with one phase motor	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PM 3048 Pak	40	0	5	0	4	4	53	SMT-101-68 PAK
10.	Reciprocating Pump (Single Acting) Suction Head 2 inch dia Mounted with one phase motor	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PM 3049 Pak	40	0	5	0	4	4	53	SMT-101-98B PAK
11.	Series of 5 water pump rotors (on base)	0	0	0	0	0	0	0	Not Quoted	40	-	5	-	4	4	53	ASC-PM 3050 Pak	40	0	5	0	4	4	53	SMT-101-38 PAK
12.	Cut Section Self-priming high-lift centrifugal electric pump with built-it ejector (on base)	40	-	5	-	4	4	53	CM-101 EES-Pak	40	-	5	-	4	4	53	ASC-PM 3051 Pak	40	0	5	0	4	4	53	SMT-102-05 PAK
13.	Cut Section Multistage centrifugal pump (on base)	40	-	5	-	4	4	53	CM-102 EES-Pak	40	-	5	-	4	4	53	ASC-PM 3052 Pak	40	0	5	0	4	4	53	SMT-102-07 PAK
14.	Cut Section Reciprocal compressor (on base)	40	-	5	-	4	4	53	CM-103 EES-Pak	40	-	5	-	4	4	53	ASC-PM 3053 Pak	40	0	5	0	4	4	53	SMT-102-09 PAK

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