	COMPARATIVE STATEMENT / TEC	HN	IC	AL I	PR	OP	os	AL	S A	DP	-108	6-11	048	9 PF	200	URE	ME	TN	OF	EQU	JIPM	IENT /	MAC Tech		-				AN	ND L	LIBRAF	RY EC	QUIP	MEN	IT'S	FOR	R GP	PI'S I	N KH	IYBE	R PAKHTUN	IKHV	VA TE	NDE	R O	PEN	IING	09-0	06-2	021 Civil	
Item No.	Name of Items		El	ect	rica	al E	Eng	jine	eeri	ing	Serv	ices,				AI-V	Vaq	as A	Asso	ocia	te, L	.ahore				ŀ	<b>Cade</b>	er E	Brotl	her	s Laho	re			ES	OLS	Eng	ginee	ering	Edu	cation, Mult	an				An	nmol	Lah	ore		
NO.		40		5 !	5	2		4	60			ode				P.0						Mod	el		:.S 5	P.(	C 2 4	P.L.P	1	T 60	I	Mod	lel						2.L.P 4		Model		C.S 40	5	P.(	2		4	Т 60	Model	
1	LE- CHATLIER'S APPARATUS:	0	0	) (	C	0	0	0	0		Not (	Quot	ed	40	0	5	0	4	4	53	LC	-31A	+ LD-	40	5	5	0 4	4	5	58	K	BL P	PAK		0	0	0	0 0	0	0	Not Quote	ed	40	0	5	0	4	4 5	53	CASC-112	20
	BS 4550																				5	0 + EL									also g	givin	ig ext	tra																Pak	
	(For soundness of cement)																					300	5								aco	cesso	ories	5																	
	LE CHATELIER WATER BATH,																					Chir	na																												
	Made of stainless steel and																																																		
	incorporates a 1000 W heater																																																		
	enabling the water to reach																																																		
	boiling point within 25 minutes.																																																		
	Regulation of temperature																																																		
	through hydraulic thermostat																																																		
	from +5 to 100°C. Complete																																																		
	with resistance-tray, cover and																																																		
	thermometer. Allow to realize																																																		
	different tests simultaneously.																																																		
	Power supply: 220 V. 50 Hz.																																																		
	LE CHATELIER MOULD, Ø 30 x																																																		
	300 mm. Long.																																																		
	LE CHATELIER GLASS PLATES																																																		
	(2), 50 x 50 mm.																																																		
	LE CHATELIER CLIP to hold the																																																		
	glass plates																																																		
																_	_	_								_	_			_					_		_			-				_	_	_		_			_
	LE CHATELIER FLASK, ASTM	0	0	) (	J	0	0	0	0		Not (	Quot	ed	40	0	5	0	4	4	53		Chir	ia	40	0	5	0 2	4	1 5	5	K	BL P	ΆK		0	0	0	0 0	0	0	Not Quote	€d	40	0	5	0	4	4	53	CASC-112	21
	C188; BS 4550																																																	Pak	
	(Relative density of hydraulic																																																		
	cement).																																																		
	Graduated from Ø to 1 ml. and																																																		
	from 18 to 24 cm3																																																		
	Capacity: 250 ± 0.05 cm3																																																		

3 FLEXURAL/COMPRESSION TESTING MACHINE, 300 KN. Capacity, ASTM C 190 40 0   With motorized hydraulic power pack fitted with adjustment of the load gradient, rapid approach device and relive valve. 1 1   The frame is assembled seamless, with electronic display of load. 40 0   Accuracy: ± 1%. 1 1 1   Power supply: 220-240 V. 50 1 1 1	5 0	4 4	53 ST-200 E Pak	ES 0	0 0	0 0	0 0	Not Quoted	40	0	5 (	) 4	4 53	KBL PAK	40	0 5	0 4	4 53	SMT-CT 14-B Pak	40	0 5	0	4	4 53	CASC-1123 Pak
4 MOTORISED FLEXURAL/TENSILE MACHINE, 10 KN, ASTM C 349 Used to determine the flexural strength of 40 x 40 x 160 mm. mortar specimens and the tensile strength of briquettes. Composed of a massive aluminium frame with a horizontal graduated beam, complete with weights and counterweights. The steelyard comprises a graduated beam with three read- out scales. The machine is motorized and it ensures a constant increase of the load of 50 ±10 N/sec. It can be operated either in non-stop automatic mode or in start-stop mode driven by the operator's commands. When the specimen fails, the machine automatically stop. A limit switch is however foreseen at full scale. The specimen jaws have to be ordered separately. Accuracy: ± 1%. Power supply: 220-240 V. 50 Hz. Accessories: ELEXURAL IAWS for flexural test	5 0		53 MF-100 E Pak	ES 40	0 0 5	0 4	4 53	WAW-1000-B China	40	0	5 (	) 4	4 53	WAW-1000-B China	0	0 0	0 0	0 0	Not Quoted	40	0 5	0	4	4 53	CASC-1122 Pak

according to ASTM. FLEXURAL JAWS, for tensile test according to BS and ASTM. SINGLE MOULD, used for the preparation of mortar briquettes, according to ASTM standards. Dimensions: 320 x 110 x 400 mm. THREE-GANG MOULD, used for the preparation of tar briquettes, according to ASTM standards.																									
5 ELECTROMAGNETIC SIEVE SHAKER, with Standard sieves set , ASTM C 33-13 Activated by electromagnetic impulses. It is particularly recommended to carry out sieving test where high precision and performance are important. This electromagnetic shaker is of simple and sturdy construction, it is also suitable for wet sieving tests along electronic control panel. The vibrating intensity and the pauses between one vibration and the following one (this is especially indicated for fine material sieving). The sieve shaker can hold up to 10 sieves. Standard sieves set , ASTM C 33-13 (for fine and Coarse aggregates): Of Ø 200 mm x 50 mm with hole With compatible electromagnetic sieve shaker.	5 0	4 5	53 EES-02 Pak	40	0	5	0 4	4 53	3	LOCAL Pak	0 0	0 0	0 0	0	Not Quoted	0 0		0	Not Quoted	40	0	5	0 4 4	53	CASC-1124 Pak

Determine clay percentage in 30 0	50	4 4	43	47-D0439	0	0 (	0 0	0 0	0 (	Not Quoted	0	0	0 0	0	0 0	Not Quoted	0	0 0	0 0	0 (	Not Quoted	4(	0 0	5	0 4	4 53	CASC-112
aggregate.				China																							Pak
ASTM C 117																											
. This is a gravimetric method																											
or determining the clay, silt,																											
nd dust																											
ontent of that portion of the																											
naterial finer than 75 μm.																											
BOTTLE ROLLER, with rotation																											
peed 80 rpm.																											
BOTTLE 1 L., capacity with lid.																											
. BLUE METHYLENE TEST																											
et for determination of Blue																											
1ethylene composed by:																											
ELECTRONIC STIRRER, with																											
igital display. It is supplied																											
omplete with																											
tirring rod, support and fixing																											
ut. Reliable speed between																											
00-700																											
om.																											
BURETTE, with glass key, 100																											
nl. capacity.																											
FILTER PAPER, Ø 125 mm.																											
GLASS ROD, length 300 mm.																											
BEAKER, capacity 600 ml.																											
BLUE METHYLENE, (25 gr).																											
DR EQUIVALENT																											
											1																