

APPENDIX. 1 (Q1a) NB:  
( TO BE COMPLETED AND INSERTED INTO YOUR ANSWER BOOKLET)

BLOCK	Load	Qty	$P_u$ (kW)	$\eta$	$P_a$ (kW)	$K_u$	$K_s$	$K_{s2}$	$P_{ds}$	p.f.	$Q_{ds}$	$P_{ds}$	$Q_{ds}$	$S_{ds}$	p.f.	$I_{ds}$	$K_{s1}$	$P_{dtr}$	$P_{dtr}$	$Q_{dtr}$	$S_{dtr}$ (kVA)	$I_{dtr}$ (A)	Cos $\phi$
WORKSHOP A	Sockets 2P+T	8	3.52					1															
	Single phase motor	6																					
	Compressor	1						1															
	Lift	1	15																				
	Fluorescent tubes	30																					
WORKSHOP B	Single phase motor	4																					
	Three phase motor	3																					
	Sockets 2P+T	10	3.52					1															
	Milling machine	1																					
	Lathe machine	4																					
WORKSHOP C	Fluorescent tubes	20	1.42																				
	Planing machine	1																					
	Grinding machine	9	1.6	0.9	16	0.8	0.75		9.6	0.8	7.2												
	Mortising machine	1						1															
	Fluorescent tubes	18																					
ADMINISTRATIVE BLOCK	Sander	2	1.5																				
	Circular saw	22																					
	Fluorescent tubes	42																					
	Air conditioner	3	2.5					1															
	Sockets 2P+T	12																					