

MAKLUMAT SPESIFIKASI KERJA (SKOP TERPERINCI)

Tajuk Projek : KONTRAK PERKHIDMATAN PENYELENGGARAAN SISTEM PENYAMAN UDARA BAGI TEMPOH SATU TAHUN DI
UiTM CAWANGAN TERENGGANU KAMPUS BUKIT BESI, TERENGGANU.

Keterangan : 2 - KERJA SERVIS

BIL	KETERANGAN	KUANTITI	UNIT	KADAR HARGA	JUMLAH (RM)
	Nota:		KEKERAPAN		
	Semua kuantiti item adalah provisional. Kontraktor perlu menyediakan audit kondisi dan juga kuantiti sebenar di tapak. Keperluan servis mestilah berdasarkan kuantiti sebenar selepas audit kondisi disahkan oleh PP.				
A	WATER COOLED CENTRALIZED SYSTEM				
1	COOLING TOWER				
A1	To inspect and servicing the Cooling Tower and other related components of the Air Conditioning Central System and all water piping system, pumps, balancing, valves and etc.				
A2	To conduct condenser water treatment AS PER CHEMICAL SUPPLIER METHOD OF STATEMENT including on-site standard water analysis test.				
	EVERY MONTHS.				
	1.0 Bangunan Perdana				
	1.1 Cooling Tower 82 HRT (Roof Top)	1	12		
	2.0 Bangunan Khazanah				
	2.1 Cooling Tower 114 HRT (Roof Top)	1	12		
	3.0 Rumah Pam (Aircond)				
	3.1 Cooling Tower 300 HRT (Landed)	2	12		
2	WATER COOLED PACKAGE (WCPU) SYSTEM (SERVICING)				
A3	To inspect and servicing the WCPU, AHU and other related components of the Air Conditioning Central System for EVERY TWO (2) MONTHS.				
	1.0 Bangunan Perdana				
	1.1 WCPU - 1 no X 26.7 Ton	1	6		
	1.2 WCPU - 1 no X 21.25 Ton	1	6		
	1.3 WCPU - 1 no X 12.2 Ton	1	6		
	1.4 WCPU - 1 no X 4.2 Ton	1	6		
	2.0 Bangunan Khazanah				

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BIL	KETERANGAN	KUANTITI	UNIT	KADAR HARGA	JUMLAH (RM)
	2.1 WCPU - 2 nos X 16.7 Ton	2	6		
	2.2 WCPU - 2 nos X 17.5 Ton	2	6		
	2.3 WCPU - 2 nos X 11.25 Ton	2	6		
	3.0 Bangunan Ilmuan				
	3.1 WCPU - 2 nos X 73000 btu/hr	2	6		
	3.2 WCPU - 1 no X 60900 btu/hr	1	6		
	4.0 Bangunan Makmal Inovasi				
	4.1 WCPU - 4 nos X 162000 btu/hr	4	6		
	4.2 WCPU - 7 nos X 199000 btu/hr	7	6		
	4.3 WCPU - 1 nos X 42300 btu/hr	1	6		
	5.0 Bangunan Makmal Proaktif				
	5.1 WCPU - 5 nos X 199000 btu/hr	5	6		
	5.2 WCPU - 3 nos X 162000 btu/hr	3	6		
	5.3 WCPU - 4 nos X 124000 btu/hr	4	6		
	5.4 WCPU - 1 nos X 73000 btu/hr	1	6		
	6.0 Bangunan Akademik/ Dewan Kuliah				
	6.1 WCPU - 12 nos X 73000 btu/hr	12	6		
	6.2 WCPU - 1 nos X 254000 btu/hr	1	6		
	6.3 WCPU - 1 nos X 60900 btu/hr	1	6		
	6.4 WCPU - 1 nos X 124000 btu/hr	1	6		
3	WATER COOLED SPLIT UNIT (WCSU) - Flushing drain pipe				
A4	To inspect and servicing the WCSU and other related components of the Air Conditioning Central System. The list of work are listed in the Section C, for EVERY TWELVE (12) MONTHS				
	Preventive maintenance for flushing drain pipe of all WCSU air conditioner:				
	1.0 Bangunan Ilmuan				
	1.1 WCSU - 40 nos X 10000 btu/hr	40	1		
	1.2 WCSU - 12 nos X 19000 btu/hr	12	1		
	1.3 WCSU - 30 nos X 14000 btu/hr	30	1		

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Keterangan : 2 - KERJA SERVIS

BIL	KETERANGAN	KUANTITI	UNIT	KADAR HARGA	JUMLAH (RM)
	1.4 WCSU - 5 nos X 9500 btu/hr	5	1		
	2.0 Bangunan Makmal Inovasi				
	2.1 WCSU - 7 nos X 14000 btu/hr	7	1		
	2.2 WCSU - 8 nos X 9500 btu/hr	8	1		
	3.0 Bangunan Makmal Proaktif				
	3.1 WCSU - 7 nos X 14000 btu/hr	7	1		
	3.2 WCSU - 7 nos X 9500 btu/hr	7	1		
	4.0 Bangunan Akademik/ Dewan Kuliah				
	4.1 WCSU - 3 nos X 10000 btu/hr	3	1		
	5.0 Bangunan Inspirasi				
	5.1 WCSU - 8 nos X 19000 btu/hr	8	1		
	5.2 WCSU - 2 nos X 21000 btu/hr	2	1		
A5	To inspect and servicing the WCSU and other related components of the Air Conditioning Central System. The list of work are listed in the Section C, for EVERY TWELVE (12) MONTHS				
	Preventive maintenance for chemical cleaning of WCSU air conditioner:				
	1.0 Bangunan Ilmuan				
	1.1 WCSU - 40 nos X 10000 btu/hr	40	1		
	1.2 WCSU - 12 nos X 19000 btu/hr	12	1		
	1.3 WCSU - 30 nos X 14000 btu/hr	30	1		
	1.4 WCSU - 5 nos X 9500 btu/hr	5	1		
	2.0 Bangunan Makmal Inovasi				
	2.1 WCSU - 7 nos X 14000 btu/hr	7	1		
	2.2 WCSU - 8 nos X 9500 btu/hr	8	1		
	3.0 Bangunan Makmal Proaktif				
	3.1 WCSU - 7 nos X 14000 btu/hr	7	1		
	3.2 WCSU - 7 nos X 9500 btu/hr	7	1		
	4.0 Bangunan Akademik/ Dewan Kuliah				
	4.1 WCSU - 3 nos X 10000 btu/hr	3	1		

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BIL	KETERANGAN	KUANTITI	UNIT	KADAR HARGA	JUMLAH (RM)
	5.0 Bangunan Inspirasi				
	5.1 WCSU - 8 nos X 19000 btu/hr	8	1		
	5.2 WCSU - 2 nos X 21000 btu/hr	2	1		
4	WATER COOLED CHILLER PUMPS				
A6	To inspect and servicing the Vertical Variable Water Pump (VVMP), Condenser Water Pump (CWP), and other related components of the Air Conditioning Central System. The list of work are listed in the Technical Specification m/s C7/1 - C7/17, for EVERY TWO (2) MONTHS				
	1.0 Bangunan Perdana				
	1.1 VVMP 0.5 Hp	2	6		
	1.2 CWP 8.0 Hp	2	6		
	2.0 Bangunan Khazanah				
	2.1 CWP 8.0 Hp	2	6		
	3.0 Rumah Pam (Aircond)				
	3.1 CWP 50.0 Hp	3	6		
5	MAKE-UP WATER TANK				
A7	To inspect and servicing the Make-Up Water Tank and other related components of the Air Conditioning Central System. The list of work are listed in the Section C, for EVERY TWELVE (12) MONTHS				
	1.0 Bangunan Perdana				
	1.1 M.T 1 (2M X 2M X 2M(H))	1	1		
	2.0 Bangunan Khazanah				
	2.1 M.T 2 (3M X 2M X 2M (H))	1	1		
	3.0 Rumah Pam (Aircond)				
	3.1 M.T 3 (4M X 4M X 4M(H))	1	1		

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BIL	KETERANGAN	KUANTITI	UNIT	KADAR HARGA	JUMLAH (RM)
A8	To perform Maintenance Visit for Water Cooled Pacage Unit (WCPU) including inspect, service and to carry out oil change and others associate works for Air Conditioning Central System for EVERY ONE (1) YEAR				
	WATER COOLED SPLIT UNIT (WCSU) - Oil change				
	1.0 Bangunan Perdana				
1.1	WCPU - 1 no X 26.7 Ton	1	1		
1.2	WCPU - 1 no X 21.25 Ton	1	1		
1.3	WCPU - 1 no X 12.2 Ton	1	1		
1.4	WCPU - 1 no X 4.2 Ton	1	1		
	2.0 Bangunan Khazanah				
2.1	WCPU - 2 nos X 16.7 Ton	2	1		
2.2	WCPU - 2 nos X 17.5 Ton	2	1		
2.3	WCPU - 2 nos X 11.25 Ton	2	1		
	3.0 Bangunan Ilmuan				
3.1	WCPU - 2 nos X 73000 btu/hr	2	1		
3.2	WCPU - 1 no X 60900 btu/hr	1	1		
	4.0 Bangunan Makmal Inovasi				
4.1	WCPU - 4 nos X 162000 btu/hr	4	1		
4.2	WCPU - 7 nos X 199000 btu/hr	7	1		
4.3	WCPU - 1 nos X 42300 btu/hr	1	1		
	5.0 Bangunan Makmal Proaktif				
5.1	WCPU - 5 nos X 199000 btu/hr	5	1		
5.2	WCPU - 3 nos X 162000 btu/hr	3	1		
5.3	WCPU - 4 nos X 124000 btu/hr	4	1		
5.4	WCPU - 1 nos X 73000 btu/hr	1	1		
	6.0 Bangunan Akademik/ Dewan Kuliah				
6.1	WCPU - 12 nos X 73000 btu/hr	12	1		
6.2	WCPU - 1 nos X 254000 btu/hr	1	1		

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BIL	KETERANGAN	KUANTITI	UNIT	KADAR HARGA	JUMLAH (RM)
	6.3 WCPU - 1 nos X 60900 btu/hr	1	1		
	6.4 WCPU - 1 nos X 124000 btu/hr	1	1		
B	AIR COOLED SPLIT UNIT				
B1	Preventive maintenance for servicing indoor and outdoor of all type Split Unit air conditioner: Every (3) Three Months				
	1.0 9,000 btu/hr	24	4		
	2.0 10,000 btu/hr	31	4		
	3.0 12,000 btu/hr	9	4		
	4.0 18,000 btu/hr	3	4		
	5.0 20,000 btu/hr	8	4		
	6.0 24,000 btu/hr	7	4		
	7.0 35,000 btu/hr	1	4		
B2	Preventive maintenance for flushing drain pipe of all type Split Unit air conditioner: Every (12) Twelve Months.				
	1.0 9,000 btu/hr	24	1		
	2.0 10,000 btu/hr	31	1		
	3.0 12,000 btu/hr	9	1		
	4.0 18,000 btu/hr	3	1		
	5.0 20,000 btu/hr	8	1		
	6.0 24,000 btu/hr	7	1		
	7.0 35,000 btu/hr	1	1		
B3	Preventive maintenance for chemical cleaning of all type Split Unit air conditioner: Every (12) Twelve Months.				
	1.0 9,000 btu/hr	24	1		
	2.0 10,000 btu/hr	31	1		
	3.0 12,000 btu/hr	9	1		
	4.0 18,000 btu/hr	3	1		
	5.0 20,000 btu/hr	8	1		
JUMLAH (RM)					