

MAKLUMAT SPESIFIKASI KERJA (SKOP TERPERINCI)

Tajuk Projek : CADANGAN MENAIKTARAF BILIK-BILIK TANDAS DI ARAS 2, 3 DAN 4 SERTA KERJA-KERJA LAIN YANG BERKAITAN DI BANGUNAN AKADEMIK 2, KOMPLEKS AL-FARABI, ARSHAD AYUB GRADUATE BUSINESS SCHOOL (AAGBS), UiTM SHAH ALAM

Keterangan : 4.1 - Kerja-Kerja Mekanikal
NEW PLUMBING WORKS (COLD WATER & SANITARY) - Semua ringkasan tawaran hendaklah dibaca bersama-sama lukisan dan spesifikasi tambahan yang disediakan.

BIL	KETERANGAN	UNIT	HARGA (RM)
A	INTERNAL COLD WATER PLUMBING		
	Lokasi: Tandas OKU, Wanita Dan Lelaki (Section A)		
	General		
	The piping installation specified herein shall be complete and include all valves, mounting brackets, expansion joints and all accessories. Pipe work, valves, fittings and all accessories shall comply with the UiTM as per drawing		
1	To dismantle all existing cold water piping at toilet OKU, Wanita & Lelaki (Section A) c/w bends, elbows, tees, valve and all related accessories as per drawing	L/S	
2	To check, service and repair (if necessary) 50mm dia G.I existing incoming dropper pipe c/w change new gate valve and all related accessories as per drawing	L/S	
3	To supply and install new PVC-u PN 15 distribution pipes tapping from existing 50mm dia G.I dropper pipe and run concealed in wall to all tap, basin, water closet c/w bends, elbows, tees, hanger, valves, stopcock and all accessories as per drawing		
i	New Tandas OKU	L/S	
ii	New Tandas Wanita	L/S	
iii	New Tandas Lelaki	L/S	
4	Testing and Commissioning		
4.1	Complete testing and commissioning of the above witnessed by UiTM Superintendent Officer (S.O.).	L/S	
5	OPERATION & MAINTENANCE MANUAL, SHOP AND AS - BUILT DRAWINGS		
i	Shop Drawings as specified	L/S	
ii	Operation and Maintenance Manual c/w As - Built Drawing as specified	L/S	
iii	One set of Intermediate As - Built print & softcopy (Pendrive) Autocad Format	L/S	
6	OTHER ITEMS		
	Any other items not mentioned in the specification or drawing or above but necessary to complete the installation.		
i		
ii		
iii		
B	INTERNAL SANITARY PLUMBING		

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Keterangan : 4.1 - Kerja-Kerja Mekanikal
NEW PLUMBING WORKS (COLD WATER & SANITARY) - Semua ringkasan tawaran hendaklah dibaca bersama-sama lukisan dan spesifikasi tambahan yang disediakan.

BIL	KETERANGAN	UNIT	HARGA (RM)
1	To check, service and repair (if necessary) all existing sanitary piping at toilet OKU, Wanita & Lelaki (Section A) until to existing Inspection chamber c/w bends, elbows, tees, and all related accessories as per drawing and making good all the outlet	L/S	
2	To check, service and repair existing nearest inspection chamber and to make sure connecting sanitary piping inspection chamber to inspection chamber until external c&s manhole was functionable.	L/S	
3	Supply and install uPVC underground pipe (Brown) to connect all sanitary ware to gully trap, floor trap & inspection chamber with various size of pipe c/w excavation works, tee joint, y joint bends, rodding eyes, support/hangers, joint sleeves through walls/floors, pipe connection and all other accessories discharge to gully traps and manholes:- (Please refer Sanitary Plumbing drawing)		
i	Tandas OKU, Wanita Dan Lelaki (Section A)	L/S	
4	MISCELLANEOUS		
4.1	Concrete masonry works, excavation and filling up to accommodate run of pipes from building to external equipments and services. Concrete plinth and foundations for all equipment installed.	L/S	
5	Testing and Commissioning		
5.1	Complete testing and commissioning of the above witnessed by UiTM Superintendent Officer (S.O.).	L/S	
6	OPERATION & MAINTENANCE MANUAL, SHOP AND AS - BUILT DRAWINGS		
6.1	Shop Drawings as specified	L/S	
6.2	Operation and Maintenance Manual c/w As - Built Drawing as specified	L/S	
6.3	One set of Intermediate As - Built print & softcopy (Pendrive) Autocad Format	L/S	
C	INTERNAL COLD WATER PLUMBING		
	Lokasi: Pantry (Section B)		
	General		
	The piping installation specified herein shall be complete and include all valves, mounting brackets, expansion joints and all accessories. Pipe work, valves, fittings and all accessories shall comply with the UiTM as per drawing		
1	To dismantle all existing cold water piping at Pantry (Section B) c/w bends, elbows, tees, valve and all related accessories as per drawing	L/S	

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Keterangan : 4.1 - Kerja-Kerja Mekanikal
NEW PLUMBING WORKS (COLD WATER & SANITARY) - Semua ringkasan tawaran hendaklah dibaca bersama-sama lukisan dan spesifikasi tambahan yang disediakan.

BIL	KETERANGAN	UNIT	HARGA (RM)
2	To check, service and repair (if necessary) existing incoming pipe c/w change new gate valve and all related accessories as per drawing	L/S	
3	To supply and install new PVC-u PN 15 distribution pipes tapping from existing incoming cold water pipe and run concealed in wall to sink c/w bends, elbows, tees, hanger, valves, stopcock and all accessories as per drawing		
i	Pantry (Section B)	L/S	
4	Testing and Commissioning		
4.1	Complete testing and commissioning of the above witnessed by UiTM Superintendent Officer (S.O.).	L/S	
5	OPERATION & MAINTENANCE MANUAL, SHOP AND AS - BUILT DRAWINGS		
i	Shop Drawings as specified	L/S	
ii	Operation and Maintenance Manual c/w As - Built Drawing as specified	L/S	
iii	One set of Intermediate As - Built print & softcopy (Pendrive) Autocad Format	L/S	
6	OTHER ITEMS		
	Any other items not mentioned in the specification or drawing or above but necessary to complete the installation.		
i		
ii		
iii		
D	INTERNAL SANITARY PLUMBING		
1	To check, service and repair (if necessary) all existing sanitary piping at Pantry (Section B) until to existing Inspection chamber c/w bends, elbows, tees, and all related accessories as per drawing and making good all the outlet	L/S	
2	To check, service and repair existing nearest inspection chamber and to make sure connecting sanitary piping inspection chamber to inspection chamber until external c&s manhole was functionable.	L/S	
3	Supply and install uPVC underground pipe (Brown) to connect all sanitary ware to gully trap, floor trap & inspection chamber with various size of pipe c/w excavation works, tee joint, y joint bends, rodding eyes, support/hangers, joint sleeves through walls/floors, pipe connection and all other accessories discharge to gully traps and manholes:- (Please refer Sanitary Plumbing drawing)		
i	Pantry (Section B)	L/S	

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Keterangan : 4.1 - Kerja-Kerja Mekanikal
NEW PLUMBING WORKS (COLD WATER & SANITARY) - Semua ringkasan tawaran hendaklah dibaca bersama-sama lukisan dan spesifikasi tambahan yang disediakan.

BIL	KETERANGAN	UNIT	HARGA (RM)
4	MISCELLANEOUS		
4.1	Concrete masonry works, excavation and filling up to accommodate run of pipes from building to external equipments and services. Concrete plinth and foundations for all equipment installed.	L/S	
5	Testing and Commissioning		
5.1	Complete testing and commissioning of the above witnessed by UiTM Superintendent Officer (S.O.).	L/S	
6	OPERATION & MAINTENANCE MANUAL, SHOP AND AS - BUILT DRAWINGS		
6.1	Shop Drawings as specified	L/S	
6.2	Operation and Maintenance Manual c/w As - Built Drawing as specified	L/S	
6.3	One set of Intermediate As - Built print & softcopy (Pendrive) Autocad Format	L/S	
E	INTERNAL COLD WATER PLUMBING		
	Lokasi: Tandas Wanita Dan Lelaki (Section C)		
	General		
	The piping installation specified herein shall be complete and include all valves, mounting brackets, expansion joints and all accessories. Pipe work, valves, fittings and all accessories shall comply with the UiTM as per drawing		
1	To dismantle all existing cold water piping at toilet OKU, Wanita & Lelaki (Section A) c/w bends, elbows, tees, valve and all related accessories as per drawing	L/S	
2	To check, service and repair (if necessary) 50mm dia G.I existing incoming dropper pipe c/w change new gate valve and all related accessories as per drawing	L/S	
3	To supply and install new PVC-u PN 15 distribution pipes tapping from existing 50mm dia G.I dropper pipe and run concealed in wall to all tap, basin, water closet c/w bends, elbows, tees, hanger, valves, stopcock and all accessories as per drawing		
i	Aras 3-New Tandas Lelaki	L/S	
ii	Aras 4-New Tandas Wanita	L/S	
4	Testing and Commissioning		
4.1	Complete testing and commissioning of the above witnessed by UiTM Superintendent Officer (S.O.).	L/S	
5	OPERATION & MAINTENANCE MANUAL, SHOP AND AS - BUILT DRAWINGS		
i	Shop Drawings as specified	L/S	

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Keterangan : 4.1 - Kerja-Kerja Mekanikal
NEW PLUMBING WORKS (COLD WATER & SANITARY) - Semua ringkasan tawaran hendaklah dibaca bersama-sama lukisan dan spesifikasi tambahan yang disediakan.

BIL	KETERANGAN	UNIT	HARGA (RM)
ii	Operation and Maintenance Manual c/w As - Built Drawing as specified	L/S	
iii	One set of Intermediate As - Built print & softcopy (Pendrive) Autocad Format	L/S	
6	OTHER ITEMS		
	Any other items not mentioned in the specification or drawing or above but necessary to complete the installation.		
i		
ii		
iii		
F	INTERNAL SANITARY PLUMBING		
1	To check, service and repair (if necessary) all existing sanitary piping at toilet Wanita Dan Lelaki (Section C) until to existing Inspection chamber c/w bends, elbows, tees, and all related accessories as per drawing and making good all the outlet	L/S	
2	To check, service and repair existing nearest inspection chamber and to make sure connecting sanitary piping inspection chamber to inspection chamber until external c&s manhole was functionable.	L/S	
3	Supply and install uPVC aboveground pipe to connect all sanitary ware to gully trap, floor trap & inspection chamber with various size of pipe c/w excavation works, tee joint, y joint bends, rodding eyes, support/hangers, joint sleeves through walls/floors, pipe connection and all other accessories discharge to gully traps and manholes:- (Please refer Sanitary Plumbing drawing)		
i	Aras 3-New Tandas Lelaki	L/S	
ii	Aras 4-New Tandas Wanita		
4	MISCELLANEOUS		
4.1	Concrete masonry works, excavation and filling up to accommodate run of pipes from building to external equipments and services. Concrete plinth and foundations for all equipment installed.	L/S	
5	Testing and Commissioning		
5.1	Complete testing and commissioning of the above witnessed by UiTM Superintendent Officer (S.O.).	L/S	
6	OPERATION & MAINTENANCE MANUAL, SHOP AND AS - BUILT DRAWINGS		
6.1	Shop Drawings as specified	L/S	
6.2	Operation and Maintenance Manual c/w As - Built Drawing as specified	L/S	

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NEW PLUMBING WORKS (COLD WATER & SANITARY) - Semua ringkasan tawaran hendaklah dibaca bersama-sama lukisan dan spesifikasi tambahan yang disediakan.

BIL	KETERANGAN	UNIT	HARGA (RM)
6.3	One set of Intermediate As - Built print & softcopy (Pendrive) Autocad Format	L/S	
JUMLAH (RM)			