MAKLUMAT SPESIFIKASI KERJA (SKOP TERPERINCI)

Tajuk Projek : CADANGAN KERJA-KERJA PEMBAIKAN SISTEM MEKANIKAL MOTOR 3 FASA PENTAS UTAMA DI DEWAN AGUNG TUANKU CANSELOR (DATC), UITM SHAH ALAM, SELANGOR

Keterangan : 2 - KERJA-KERJA MEKANIKAL

BIL	KETERANGAN	UNIT	HARGA (RM)
1.0	GENERAL REQUIREMENT		
1.1	Check & evaluate the Existing Items		
I	The contractor shall assess, review and verify the existing system prior to the start of work		
II	The contractor shall provide a hoist specialist inspector to examine all existing installations and recommend the most effective work methods and part replacements for the entire system		
III	All required motor, winch, pulley, connectors, thimble eyes, clips, nuts, wire ropes, control board, brackets, cables, and other accessories shall be inspected		
IV	Catalog & Brochure (s) must be attached upon submission of tender documents (replacement part)		
V	The tenderer must submit a method of work statement for the servicing and replacement work before starting, and it shall be submitted to UiTM for approval		
VI	Tenderer must install and integrate all equipment supplied to be a one complete system		
VII	All equipment connection and interacking should be properly terminated with relevant connectors & brackets. Proper labeling should be applied upon servicing		
VIII	All equipment shall be proper install and adequate to withstand the weight before and after any works be carried out		
IX	Vendors are responsible for any mistake and accidence that happen during servicing and replacement period		
X	The tenderer must ensure that all terminal and interface work aligns with the original installation. If the proposed quantities are insufficient, the tenderer shall supply and bear the cost of any additional accessories or extenders required		
2.0	MECHANICAL WORKS (Motor Winch System Works)		
2.1	Existing Items Disconnet and dismantle existing motor winch system (inclusive Pulley, Wire Rope, Wire Rope Clip,Thimble Eye, Control Board and all connecting accessories for maintenance and replacement purposes	L/S	
2.2	Servicing and Replacement Works The contractor shall service and, if necessary, replace any defective components of the motor winch system including the winch itself, winch bearings or gears, pulley bearings, brackets, screws, nuts, and any other relevant parts in order to restore the system to its original operational condition, as outlined below :		
2.2.1	Servicing motor, gears, break and pulley for :		
a)	Motor winch Lighting Bar 1 (LB1) (1.1KW) sheave block (winch) : 8 No. of pulley : 14	L/S	

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BIL	KETERANGAN	UNIT	HARGA (RM)
b)	Motor winch LB2 (1.1KW) sheave block (winch) : 8 No. of pulley : 14	L/S	
c)	Motor winch LB3 (1.1KW) sheave block (winch) : 4 No. of pulley : 6	L/S	
d)	Motor winch LB4 (1.1KW) sheave block (winch) : 4 No. of pulley : 6	L/S	
e)	Motor winch LB5 (1.1KW) sheave block (winch) : 4 No. of pulley : 6	L/S	
f)	Motor winch LB6 (1.1KW) sheave block (winch) : 4 No. of pulley : 6	L/S	
g)	Motor winch LB7 (1.1KW) sheave block (winch) : 6 No. of pulley : 10	L/S	
h)	Motor winch LB8 (1.1KW) sheave block (winch) : 4 No. of pulley : 6	L/S	
i)	Motor winch LB9 (1.1KW) sheave block (winch) : 4 No. of pulley : 6	L/S	
j)	Motor winch Scenary 1 (1.1KW) sheave block (winch) : 10 No. of pulley : 18	L/S	
k)	Motor winch Scenary 2 (1.1KW) sheave block (winch) : 10 No. of pulley : 18 + 2 Extension	L/S	
l)	Motor winch Scenary 3 (1.1KW) sheave block (winch) : 6 No. of pulley : 10	L/S	
m)	Festoon (1.1KW) sheave block (winch) : 40 No. of pulley : 40	L/S	
n)	FOH 1 (1.1KW) sheave block (winch) : 4 No. of pulley : 7	L/S	
o)	FOH 2 (1.1KW) sheave block (winch) : 4 No. of pulley : 7	L/S	
p)	FOH 3 (1.1KW) sheave block (winch) : 4 No. of pulley : 7	L/S	
q)	Curtain (0.55KW) sheave block (winch) : 2 No. of pulley : 2	L/S	

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BIL	KETERANGAN	UNIT	HARGA (RM)
2.2.2	Replace the existing Wire Rope on the motor winch with a new 6.0 mm diameter wire rope including Thimble Eye, Wire Rope Clip, Brackets and accessories		
a)	Motor winch Lighting Bar 1 (LB1) (1.1KW) - (approximately 223 meters in length) sheave block (winch) : 8 No. of pulley : 14	L/S	
b)	Motor winch LB2 (1.1KW) - (approximately 223 meters in length) sheave block (winch) : 8 No. of pulley : 14	L/S	
c)	Motor winch LB3 (1.1KW)- (approximately 101 meters in length) sheave block (winch) : 4 No. of pulley : 6	L/S	
d)	Motor winch LB4 (1.1KW)-(approximately 101 meters in length) sheave block (winch) : 4 No. of pulley : 6	L/S	
e)	Motor winch LB5 (1.1KW)-(approximately 101 meters in length) sheave block (winch) : 4 No. of pulley : 6	L/S	
f)	Motor winch LB6 (1.1KW)-(approximately 101 meters in length) sheave block (winch) : 4 No. of pulley : 6	L/S	
g)	Motor winch LB7 (1.1KW)-(approximately 168 meters in length) sheave block (winch) : 6 No. of pulley : 10	L/S	
h)	Motor winch LB8 (1.1KW)-(approximately 101 meters in length) sheave block (winch) : 4 No. of pulley : 6	L/S	
i)	Motor winch LB9 (1.1KW)-(approximately 101 meters in length) sheave block (winch) : 4 No. of pulley : 6	L/S	
j)	Motor winch Scenary 1 (1.1KW)-(approximately 323 meters in length) sheave block (winch) : 10 No. of pulley : 18	L/S	
k)	Motor winch Scenary 2 (1.1KW)-(approximately 223 meters in length) sheave block (winch) : 10 No. of pulley : 18 + 2 Extension	L/S	
l)	Motor winch Scenary 3 (1.1KW)-(approximately 223 meters in length) sheave block (winch) : 6 No. of pulley : 10	L/S	
m)	Festoon (1.1KW)-(approximately 1640 meters in length) sheave block (winch) : 40 No. of pulley : 40	L/S	

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Keterangan : 2 - KERJA-KERJA MEKANIKAL

BIL	KETERANGAN	UNIT	HARGA (RM)
n)	FOH 1 (1.1KW)-(approximately 156 meters in length) sheave block (winch) : 4 No. of pulley : 7	L/S	
o)	FOH 2 (1.1KW)-(approximately 156 meters in length) sheave block (winch) : 4 No. of pulley : 7	L/S	
p)	FOH 3 (1.1KW)-(approximately 156 meters in length) sheave block (winch) : 4 No. of pulley : 7	L/S	
2.2.3	Replace the existing Wire Rope on the motor winch with a new 3.5 mm diameter wire rope including Thimble Eye, Wire Rope Clip, Brackets and accessories		
a)	Curtain (0.55KW)-(approximately 106 meters in length) sheave block (winch) : 2 No. of pulley : 2	L/S	
3	MOTOR CONTROL WORKS (Motor Winch Control Board)		
3.1	Disconnect the existing electrical supply from fixtures and fittings on the current Control Panel Board. Isolate and dismantle all electrical fixtures, fittings and wiring in preparation for the installation of the new Control Panel Board	L/S	
3.2	Supply & Install (New) To supply and install all item according to JKR standard and spesification		
3.2.1	The work involves supplying and installing a forward-reverse control panel set to operate a 3-phase motor for manual control of the winch according to JKR standard & specification		
a)	Panel 1 (Lighting Bar Motor Winch Control Board)	L/S	
	Push button switch : Stop button Forward / up push button Reverse / down push button Lampu penunjuk jenis LED Emergancy stop button Control key switch Indicator light for Control key switch Contactor 240V, 20A Thermal overload relay (OL) 16 - 25 A 3P Relay AC 240V 14 pin Wiring for internal control switch 1 wall mounted panel indoor metal clad (800mm x 600mm x 250mm) 1 lot terminal block c/w DIN rail mount Miniature Circuit Breaker (MCB) 16A PVC wiring duct (slotted)		
b)	Panel 2 (Scenary, T-masking, Festoon & Curtian Motor Winch Control Board)	L/S	

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4	Testing & Commissioning all system complete work endorsement by Competent Person	L/S	
		JUMLAH (RM)	