ACCEPTANCE CRITERIA FOR MECHANICAL SERVICES

SERVICES :

LIFT SYSTEM

ACCEPTANCE CRITERIA FOR :

EQUIPMENT & MATERIAL DELIVERY/WORKS @ INSTALLATION

NOS	ITEMS	CRITERIA	ACCEPT (√) / REJECT (X)	REMARKS
1	DRAWINGS			
(a)	Working Drawing	Provided and approved before the installation is carried out.		Provided by Lift Contractor (Approved by S.O)
2	GUIDE RAIL			
(a)	Type Guide rail Joint Guide bracket	Solid 'Tee Section' Tongue and groove joint Guide bracket bolted to building or structure steelwork		
	Distance between guide rail joint	Maximum 200mm		
	Shims Allignments of guide rail :	Metal -Tolerence on distance between guides (-0+1mm) -Tolerance on accucy or angular alignment (± 0.5mm) -Tolerance on vertical alignment (distance of guide rail joint of 5m lengthlimit to ± 1mm)		Test report be provided by contractor
	Guides jointings & fixing	 Jointed and fixed to their brackets that the guides shall not deflect by more than 12.5mm under normal operation. 		
(b)	Guide Shoes	-Solid Guide -Swivel Guide -Roller		
3	ELECTRIC TRACTION DRIVES			
	Туре	Greared / Gearless		
	Control	ACVVVF		
	Speed	To comply with submission		
	Brake	Spring operated, double stroke type		
(e)	Machine Position	Top drive / Bottom drive / Machine roomless		
4	LIFT DOOR/LANDING DOOR/DOO			
	Type of opening	Center opening / Side opening		
	Door thickness	1.2mm		
	Fire rated	-Protected Lobby (1 hour) -Uperated Lobby (2 hour)		
(d)	Operation time	-Door Closing and open (4 seconds)*		
	Door Operator	Operated smoothly, silently and without jerks.		
	Sensor	Type (photocell and safety edge) Functionable		
	Door Operation Motor	ACVVVF		
	Door gap	Absolute tight (EN 81-1:1998 Under Safety Rules For The Contruction and Installation of Lift- Part 1: Electric Lifts Clause 8.6.3)		
	Emergency unlocking for landing door	Functionable		
(j)	Landing door	Closed when the lift car moving		

NOS	ITEMS	CRITERIA	ACCEPT (√) / REJECT (X)	REMARKS
5	LIFT CAR			
(a)	Car Frame sling	Free from distortion (Visual inspection)		
(b)	Clear area of car platform	To comply with submission/specification		
(C)	Clear dimension of car paltform	To comply with submission/specification		
	Standard compliance	To comply with submission/specification - Push button c/w		
. ,	•	braille		
		-The Highest button from floor 1.4m		
		-Perspex (anti vandalism)		
(e)	Finishhes of lift car	To comply with submission and specification		
	Car ceiling	To comply with submission/specification		
(a)	Car Platform	-Structural steel frame fitted with sufficient layers of		
(9)		hardwood flooring.		
		- Mounted on thick rubber pads supported by an auxiliary		
		steel frame fastened to the car frame and the lift cab shall		
		be bolted to connection to the car trame.		
		-Equipped with a metal threshold plate, and the underside		
		of the car platform shall be fireproofed with a steel sheet		
/L\	Car Electing	covering.		
	Car Flooring	To comply with submission/specification		
	Car ventilation fan	To comply with submission/specification		
	Lighting&PA system	To comply with submission/specification		
	Alarm bell	Functionable		
	Intercom	Functionable		
· · /	Handrail	To comply with submission/specification		
	Voice synthesizer	Functionable		
(0)	Overload buzzer	Provided and functionable		
6	SAFETY GEAR			
(a)	Type of safety gear	-Instantaneous safety gear		
		-Instantaneous safety gear with buffered effect		
		-Progresive safety gear		
(b)	Free fall test	Requirements for stopping distance and methods of testing		Inspection
		are given in BS 5655 Part 10.1.1		report to be
				provided by
				JKKP
7	OVERSPEED GOVERNORS			
(a)	Safety governors	To comply with specification and BS 5655 Part 3 1989		
	Safety governor cover	Provided		
(~)				
8	ROPES AND ROPING SYSTEM			
	No. of ropes	To comply with submission		
	Diameter of ripes	To comply with submission		
· · /	Type of rope construction	- 6x19(9/9/1)# check with supplier		
(0)	Type of tope construction	- 6x19 (9/9/1)		
		- 6x19 (9/9/1)		
(d)	Method of terminating the ropes	- Bulldog grip		
(u)	Method of terminating the topes	- Swaged end		
		- Socket end		
(0)	Roping system machine below			
(e)	Roping system machine below	- 1:1 single wrap machine above		
		- 2:1 single wrap machine above		
		- 3:1 single wrap machine above		
		- 1:1 double wrap machine above		
(†)	Roping system machine below	- 1:1 single wrap machine below		
		- 1:1 double wrap machine below		
	-	brick along its routes		
(g)	Compensating ropes	Chain, ropes or belting		

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9	COUNTERWEIGHT		REJECT (X)	
	Material of counterweight	Cast iron, cast steel or lead free metal		
. ,	Method of clamping	Tie rod with lock nuts secured by cotter pins at both ends.		
	Guide rail	Solid 'T' section		
	Joint	Tougue and groove		
	Guide bracket	Bolted to building or structure steelwork		
	Distance	Maximum 200mm between guide bracket and guide rail		
.,		joint		
(g)	Shims	Metal		
(h)	Alignment of guide rail	- Tolerance on distance between guide (-0+1mm)		
		- Tolerance on accuracy or angular aligment (±0.5mm)		
		- Tolerance on vertical aligment (distance of guide rail joint		
		of 5m length limit to ± 1mm)		
		- The guide shall be so jointed and fixed to their brackets that		
		the guide shall not deflect by more than 12.5mm under		
		normal operation		
(i)	Guide shoes	- To comply with submission		
		- Solid Guide		
		- Swivel Guide		
		- Roller		
	BUFFER			
(a)	Car buffer			
	Spring type (<1 m/s)	To comply with submission		
	Oil type (>1 m/s)	To comply with submission		
	No. of buffer	To comply with submission		
(b)	Counterweight Buffer			
	Spring type (<1 m/s)	To comply with submission		
	Oil type (>1 m/s)	To comply with submission		
	No. of buffer	To comply with submission	-	
4.4				
(a)	Controller	To comply with specification		
(b)	Ventilation for	- Labelling / Tagging - To comply with specification		
(D)	Ventilation fan	- Funstionable	-	
		- Thermostat	-	
		- Insect proof screen		
		- Louver shuttrs		
(c)	Air conditioning	- To comply with specification		
(0)	/ in contaitioning	- Functionable		
(d)	Electrical Installation Works	- wiring, trunking, conduit etc. shall not be allowed to run		
(0)		on the floor		
		- To comply with specification		
		- Lighting		
		- Electrical incoming board		
(e)	Trap door	1.5mm x 1.5mm trap door		
	Hoisting beam	I Beam for hoisting		
	Paint work	Epoxy paint for lift machine room floor		
	Notice and charts	- BAHAYA		
		BILIK JENTERA		
		DI LARANG MEROKOK		
		DENGAN TIADA KEBENARAN		
		located at the external side of lift machine romm door		
		- ELECTRIC SHOCK FIRST AID CHART		
		Located inside lift machine room		
(i)	Hand winding mechanism	Provided	∦	
12	NOISE LEVEL			
(a)	Noise level	Lift motor room - <75 dBA	┨─────┤	
		Lift Car - <58 dBA with fan at max. speed	┨─────┤	
	Flooring	Level, Dry & free from rubbish etc.	┨─────┤	
(b)	Accessories	Lighting	┨─────┤	
		15amp socket outlet		

NOS	ITEMS	CRITERIA	ACCEPT (√) / REJECT (X)	REMARKS
		Cat ladder		
14	FINISHES			
(a)	Hall lantern / Landing indicator	Functionable		
	Landing push button	Functionable		
	Message display at main lobby (If applicable)	Functionable		
(d)		Provided and functionable		
(e)	Building public address system connection to lift car (if applicable)	Functionable		
	AUTOMATIC RESCUE DEVICE (A	RD)		
• • •	ARD Unit			
	Model	To comply with submission		
(b)	Battery			
	71	Nickel Cadmium		
	Rating	To comply with submission		
	Charger	Provided		
(C)	Certification	Provided		
16	CERTIFICATE OF PRACTICAL CO	MPLETION		
(a)	Sijil lulus JKKP	To comply with submission		
(b)	As built drawings	To comply with submission		
	- Complete O&M manuals with specified maintenance schedules and methods			
	- CDs of operating system, data and passwords			