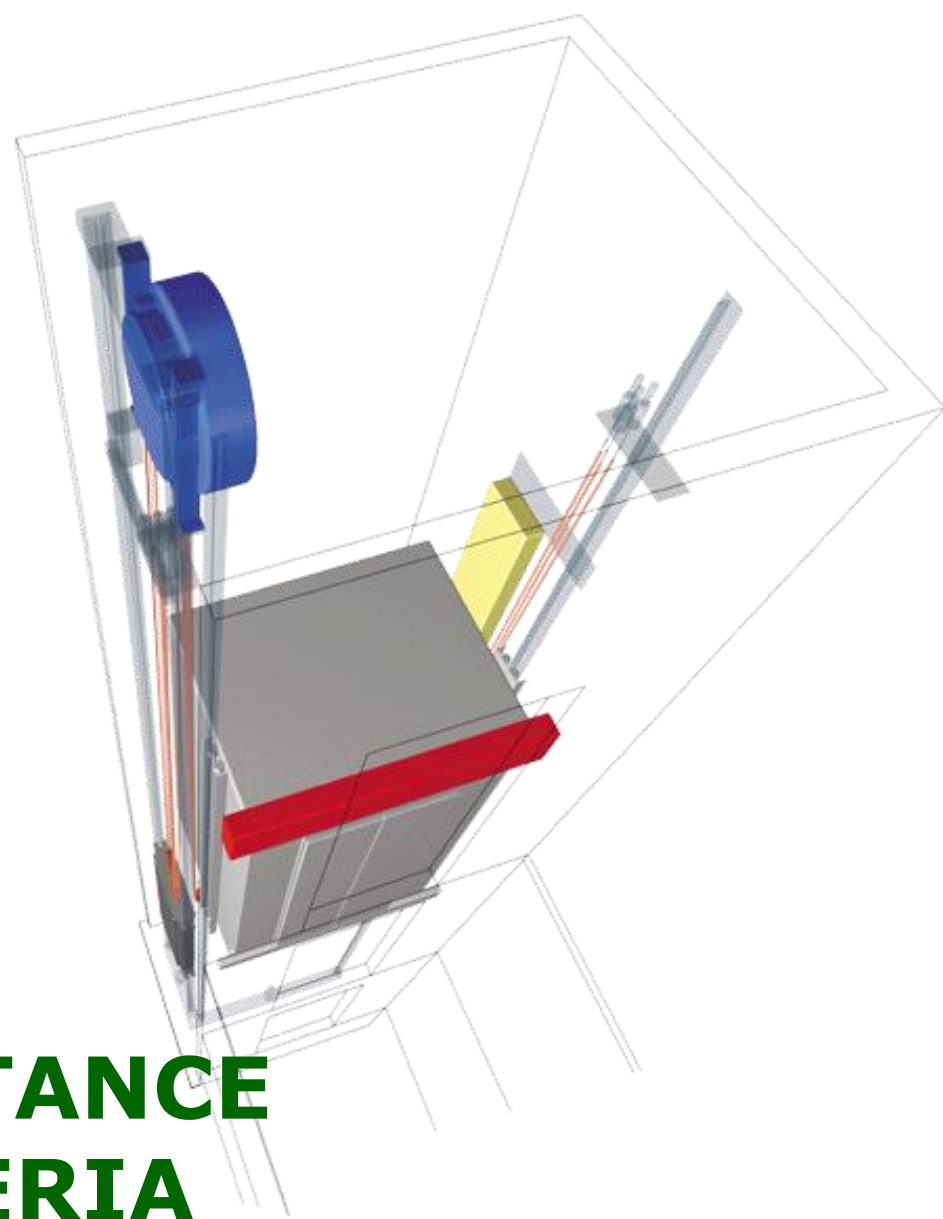


Kursus Rekabentuk Sistem Lif (Asas)



08 – 09 Mac 2018

**PUSAT KECEMERLANGAN
KEJURUTERAAN DAN TEKNOLOGI JKR
(CREaTE), JALAN KEMUS, SIMPANG
AMPAT, 78000 ALOR GAJAH, MELAKA**



**ACCEPTANCE
CRITERIA**

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NOS	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
1	WORKING DRAWING	Provided and approved before the installation is carried out.		Provided by Lift Contractor (Approved by S.O)

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
2	GUIDE RAIL			
a)	Type	Solid 'Tee Section'		
	Guide rail	Tongue and groove joint		
	Joint			
	Guide bracket	guide bracket bolted to building or structure steelwork		
	Distance between guide rail joint	Maximum 200mm		
	Shims	Metal		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
2	GUIDE RAIL Alignments of guide rail	<ul style="list-style-type: none">-Tolerance on distance between guides (-0+1mm)-Tolerance on accuracy or angular alignment (\pm 0.5mm)-Tolerance on vertical alignment (distance of guide rail joint of 5m length limit to \pm 1mm)		Test report be provided by contractor

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
2	GUIDE RAIL			
b)	Guide Shoes	-Solid Guide -Swivel Guide -Roller		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
3	ELECTRIC TRACTION DRIVES Type Control Speed Brake Machine Position	Geared / Gearless ACVVVF To comply with submission Spring operated, double stroke type Top drive / Bottom drive / Machine roomless		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
4	<p>LIFT DOOR/ LANDING DOOR/DOOR OPERATORS</p> <p>Type of opening</p> <p>Door thickness</p> <p>Fire rated</p> <p>Operation time</p>	<p>Center opening / Side opening</p> <p>1.2mm</p> <p>-Protected Lobby (1 hour)</p> <p>-Unprotected Lobby (2 hour)</p> <p>-Door Closing and open (4 seconds)*</p>		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
4	LIFT DOOR/ LANDING DOOR/DOOR OPERATORS			
	Door Operator	Operated smoothly, silently and without jerks		
	Sensor	Type (photocell and safety edge) Functionable		
	Door Operation Motor	ACVVVF		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
4	LIFT DOOR/ LANDING DOOR/DOOR OPERATORS Door gap	Absolute tight (EN 81- 1:1998 Under Safety Rules For The Construction and Installation of Lift- Part 1: Electric Lifts Clause 8.6.3)		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
4	LIFT DOOR/ LANDING DOOR/DOOR OPERATORS			
	Emergency unlocking for landing door	Functionable		
	Landing door	Closed when the lift car moving		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
5	<p>LIFT CAR</p> <p>Car Frame sling</p> <p>Clear area of car platform</p> <p>Clear dimension of car platform</p> <p>Standard compliance</p>	<p>Free from distortion (Visual inspection)</p> <p>To comply with submission/specification</p> <p>To comply with submission/specification</p> <p>To comply with submission/specification -</p> <p>Push button c/w braille</p> <p>-The Highest button from floor 1.4m</p> <p>-Perspex (anti vandalism)</p>		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
5	LIFT CAR Finishes of lift car Car ceiling Car Platform	To comply with submission and specification To comply with submission/specification Structural steel frame fitted with sufficient layers of hardwood flooring.		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
5	LIFT CAR Car Platform	<p>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 frame.</p> <p>-Equipped with a metal threshold plate, and the underside of the car platform shall be fireproofed with a steel sheet covering.</p>		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
5	LIFT CAR			
	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		
	Overload buzzer	Functionable		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
6	SAFETY GEAR			
	Type of safety gear	-Instantaneous safety gear -Instantaneous safety gear with buffered effect -Progresive safety gear		Inspection report to be provided by JKKP
	Free fall test	Requirements for stopping distance and methods of testing are given in BS 5655 Part 10.1.1		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
7	OVERSPEED GOVERNORS			
	Safety governors	To comply with specification and BS 5655 Part 3 1989		
	Safety governor cover	-Provided		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
8	<p>ROPES AND ROPING SYSTEM</p> <p>No. of ropes</p> <p>Diameter of Ropes</p> <p>Type of rope construction</p> <p>Method of terminating the ropes</p>	<p>To comply with submission</p> <p>To comply with submission</p> <p>6x19(9/9/1)</p> <p>- Bulldog grip</p> <p>-Swaged end</p> <p>--Socket end</p>		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
8	ROPES AND ROPING SYSTEM Roping system machine below Compensating ropes	-1:1 single wrap machine above -2:1 single wrap machine above -3:1 single wrap machine above -1:1 double wrap machine above -1:1 single wrap machine below -1:1 double wrap machine below -Chain, ropes or belting		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
9	COUNTER WEIGHT			
	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	Tongue and groove		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
9	COUNTER WEIGHT			
	Guide bracket	Bolted to building or structure steelwork		
	Distance	Maximum 200mm between guide bracket and guide rail joint		
	Shims	Metal		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
9	COUNTER WEIGHT Alignments of guide rail	-Tolerance on distance between guides (-0+1mm) -Tolerance on accuracy or angular alignment (\pm 0.5mm) -Tolerance on vertical alignment (distance of guide rail joint of 5m length limit to \pm 1mm)		Test report be provided by contractor

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
9	COUNTER WEIGHT Alignments of guide rail	-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		Test report be provided by contractor

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
9	COUNTER WEIGHT Guide Shoes	<ul style="list-style-type: none">-To comply with submission-Solid Guide-Swivel Guide-Roller		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
10	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		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
10	<p>BUFFER</p> <p>b) Counterweight Buffer</p> <p>Spring type (<1 m/s)</p> <p>Oil type (>1 m/s)</p> <p>No. of buffer</p>	<p>-To comply with submission</p> <p>-To comply with submission</p> <p>-To comply with submission</p>		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
11	MACHINE ROOM Controller	-To comply with submission - Labelling / Tagging		
	Ventilation fan	-To comply with submission -Functionable -Thermostat -Insect proof screen -Louver shutters		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
11	MACHINE ROOM Air conditioning Electrical Installation Works	-To comply with submission - Functionable -wiring, trunking, conduit etc. shall not be allowed to run on the floor -To comply with specification - Lighting - Electrical incoming board		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
11	MACHINE ROOM Trap door Hoisting beam Paint work	-1.5mm x 1.5mm trap door -I Beam for hoisting -Epoxy paint for lift machine room floor		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
11	<p>MACHINE ROOM</p> <p>Notice and charts</p> <p>Hand winding mechanism</p>	<p>-BAHAYA</p> <p>- BILIK JENTERA</p> <p>- DI LARANG MEROKOK</p> <p>- located at the external side of lift machine room door</p> <p>- ELECTRIC SHOCK FIRST AID CHART</p> <p>- Located inside lift machine room</p> <p>-Provided</p>		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
12	NOISE LEVEL Noise level	 -Lift motor room - <75 dBA -Lift Car - <58 dBA with fan at max. speed		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
13	LIFT PIT			
	Flooring	-Level, Dry & free from rubbish etc.		
	Accessories	-Lighting -15amp socket outlet -Cat ladder		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
14	FINISHES			
	Hall lantern / Landing indicator	-Functionable		
	Landing push button	-Functionable		
	Message display at main lobby	-Functionable		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
14	FINISHES			
	Computer for central supervisory panel. (if applicable)	-Provided and functionable		
	Building public address system connection to lift car (if applicable)	-Functionable		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
15	AUTOMATIC RESCUE DEVICE (ARD)			
	ARD Unit Model	To comply with submission		
	Battery Type Rating	Nickel Cadmium To comply with submission		
	Charger Certification	Provided Provided		

ACCEPTANCE CRITERIA FOR LIFT SYSTEM

NO	ITEMS	CRITERIA	ACCEPT/ REJECT	REMARKS
16	CERTIFICATE OF PRACTICAL COMPLETION			
	Sijil lulus JKPP	To comply with submission		
	As built drawings	To comply with submission -Complete O&M manuals with specified maintenance schedules and methods -CDs of operating system, data and passwords		

**SEKIAN
TERIMA KASIH**