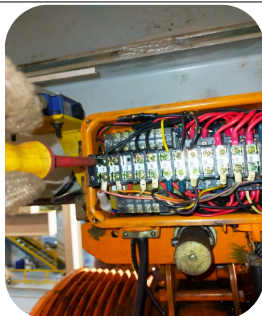
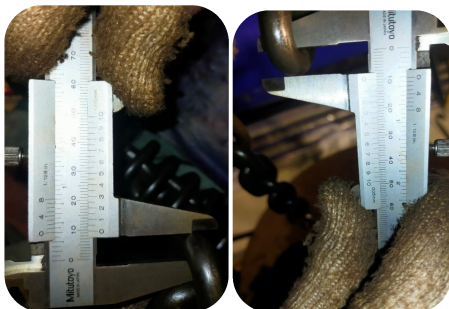
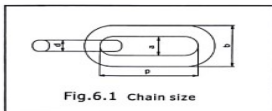
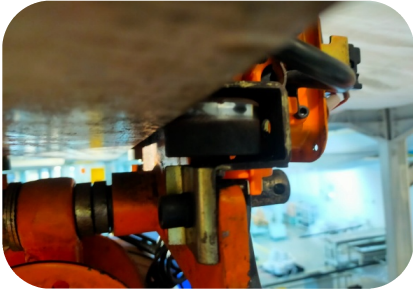


			LAPORAN PEKERJAAN			No. Formulir	HI-F-11-01	
						Revisi	R 1	
						Tanggal Revisi	01/02/2024	
Customer	PT. MULTI SPUNINDO JAYA					☒	Preventive Maintenance	
	Address	Ds. Jabaran RT.008 RW.003 Jabaran, Balongbendo					☒	Pengecekan
	User	Pak Nurwahid					☐	Pemasangan/Pembongkaran
Technician	Electrical	RIZA					☐	Perbaikan
	Mechanical	HENDRA			No. Report		LP-MSJ-2610010-PM	
Waktu	Tanggal	20/01/2026			Surat Perintah Kerja			
	Jam	08.30 - 15.00 wib			No. Form Maintenance			
Info Pekerjaan	Pekerjaan Preventive Maintenance Monorail SWL 2 Ton				No PO		5100030879	
	Area :	Line 10			Tanggal Laporan		23/01/2026	
Note Unit :	Type Unit	Monorail	Wire rope / Chain	Chain	Note Unit : Nr. BM180703			
	Merk Hoist	BRIMA	Cross Travel	-				
	Type Hoist	BM-02-01D	Long Travel	-				
	SWL	2 Ton	Garansi Info	-				
DETAIL SURVEY / PENGECEKAN / PERBAIKAN							COMMENT AND INSPECTION RESULT	
No.	URAIAN HASIL PEKERJAAN						(Mention any trouble, repair,replace, substandard or danger)	
A	Diskripsi							
	A.1. Informasi / Permintaan dari User atau Customer / Info Trouble :							
	1.	Pekerjaan Preventive Maintenance Monorail SWL 2 Ton						
B	Hasil Pekerjaan			Waktu Pekerjaan				
	1. Progress Pekerjaan			MULAI	FINISH			
	A	Pekerjaan Preventive Maintenance						
	1.1.	Proses pengurusan work permit			08.30	08.40		
	1.2.	Proses persiapan, mobilisasi Alat kerja			08.40	09.00		
	1.3.	Proses Preventive Maintenance			09.00	14.00		
		» Detail Deskripsi : - cek kondisi Unit. - cek box chain ok - cek diameter chain 9,7- 10 mm - cek brake hoist ok - lubrikasi as brake cross - cleaning brake cross - Lubrikasi gear roda cross - Ditemukan bahwa ketika roda cross membawa beban timbul suara kasar pada saat dioperasikan cross travel bearing indikasi aus. - ditemukan bibir roda non drive cross terdapat kupasan roda. - cleaning carbon brush current collector - cek function limit up-down ok - Safety lact ok - Guide chain ok - install limit switch cross travel - Cek gap brake hoist 0,8 mm - Trial - Cek Ampere						
	1.4.	Proses perapian alat kerja serta pembersihan area kerja			14.00	14.15		
	1.5.	Pembuatan Form laporan dan tanda tangan Laporan			14.15	14.40		
	1.6.	Pemindahan alat kerja kelokasi penyimpanan			14.40	15.00		
	1.7.	SELESAI				15.00		
2. Penggantian Part yang Sudah Dilakukan								
	NO	ITEM	SPESIFIKASI	QTY	SATUAN	Keterangan tambahan		
	1.							
	2.							
3. Kesimpulan								
	3.1.	- Kondisi unit hoist dalam keadaan normal dan bisa digunakan kembali dengan baik.						
	3.2.	- Kondisi roda cross travel terlihat mulai aus analisa awal beban mendekati SWL diperlukan upgrade						
	3.3.							
4. Action Plan								
	4.1.	Next PM						
	4.2.	Pengecekan berkala kondisi roda cross dan rekomendasi untuk upgrade hoist						

5. Rekomendasi Part						
	NO	ITEM	SPESIFIKASI	QTY	SATUAN	Keterangan tambahan
	1	UPGRADE HOIST (REK AGT 2025)	HOIST BRIMA ELECTRIC CHAIN HOIST SWL 3 TON + TROLLEY	1	SET	Beban yang diangkat mendekati SWL 2 ton
	2	Kampas brake cross travel (REK NOV 2025	Brima 2T. BM 02 -01 D SINGLE SPEED DPC-02	1	PCS	kampas mulai aus rekomendasi untuk spare
						
	3	Bearing roda cross travel (REK JAN 2026)	BRIMA SWL 2TON	4	PCS	Beban yang diangkat mendekati SWL 2 ton roda bersuara kasar saat beban full
C	Dokumentasi Hasil Pekerjaan					Keterangan tambahan
	C1. PENGECEKAN ELECTRICAL MONORAIL					
	1.1. Cek komponen dan terminal electrical hoist OK		1.2. Cek komponen dan terminal electrical cross travel OK			
						
	1.3. Pengecekan kondisi current collector dan cleaning (OK)		1.4. proses trial unit			
						
	C2. PENGECEKAN BRAKE					
	2.1. Pengecekan kondisi brake OK dan gap brake 0,8 mm OK					
						

2.2. Pengecekan kondisi brake cross OK dan cek shaft OK																											
																											
C3. PENGECEKAN LOAD CHAIN DAN HOOK																											
3.1. Kondisi guide chain dan limit switch OK	3.2. pengecekan dan lubrikasi load chain OK																										
																											
3.3. Kondisi chain box baik	3.4. Dimensi chain 9,7mm																										
																											
C.3.5. Standart dimensi Chain																											
(a) Chain Any distorted, extended, or worn chain will not be good locked with chain wheel, result in the breakdown or disengaging of the chains. To ensure the safe and normal operation, the internal length and width, external width of the chain must be checked monthly. If in the following situation, the chain must be replaced. 1)The internal length of the chain (p) is worn and extended 5% higher than the values as listed in Table 6.1 2) The wearing of the diameter of the chain link (d) is lower than the value listed in table 6.1 (The wearing of nominal diameter reaches 10% higher than the original one) ***** When the wearing of chain is high, be sure to confirm the wearing of the chain wheel and chain guide ***** <table><tr><th>Diameter (mm) (d)</th><th>Capacity (ton)</th><th>Internal length (mm) (p)</th><th>Internal width (mm) (a)</th><th>External width (mm) (b)</th></tr><tr><td>6.3</td><td>0.3, 0.5</td><td>19</td><td>7.5</td><td>20.5</td></tr><tr><td>7.1</td><td>1, 2, 3</td><td>21</td><td>8,9</td><td>23</td></tr><tr><td>10.0</td><td>1.5, 2, 3</td><td>30</td><td>12.5</td><td>33</td></tr><tr><td>11.2</td><td>2.5-7.5</td><td>34</td><td>14</td><td>37.2</td></tr></table> Table 6.1		Diameter (mm) (d)	Capacity (ton)	Internal length (mm) (p)	Internal width (mm) (a)	External width (mm) (b)	6.3	0.3, 0.5	19	7.5	20.5	7.1	1, 2, 3	21	8,9	23	10.0	1.5, 2, 3	30	12.5	33	11.2	2.5-7.5	34	14	37.2	berdasarkan standar di samping maka batas limit sbb : diameter 10,0mm-(10%x10,0)=9,0 mm internal link 30mm+(5%x30mm)=31,5 mm
Diameter (mm) (d)	Capacity (ton)	Internal length (mm) (p)	Internal width (mm) (a)	External width (mm) (b)																							
6.3	0.3, 0.5	19	7.5	20.5																							
7.1	1, 2, 3	21	8,9	23																							
10.0	1.5, 2, 3	30	12.5	33																							
11.2	2.5-7.5	34	14	37.2																							

	C4. PENGECEKAN RODA DAN GUIDE ROLLER		
	4.1. Kondisi roda non drive cross indikasi mulai ada keausan (masih dalam batas toleransi)	4. Kondisi roda drive cross dan lubrikasi roda drive OK	
			
	5. Kondisi roller guide cross dan pin pengunci OK	6. Kondisi roller guide cross dan pin pengunci OK	
			
D	Keterangan		
	Hasil Pengecekan Hoist		
	Ampere Speed 1 / speed 2	Resistansi	
	R. 4,9/3,7 A	UV : 7,4 / 2,7 Ω	
	S. 4,9/3,7 A	UW: 7,3 / 2,7 Ω	
	T. 5,0/3,9 A	VW: 7,3 / 2,8 Ω	
	Hasil Pengecekan Cross		
	Ampere Speed 1 / speed 2	Resistansi	
	R. 1,6 A	UV : 38,0 Ω	
	S. 1,5 A	UW: 29,0 Ω	
	T. 1,6 A	VW: 38,0 Ω	
	Hasil Pengecekan Long		
	Ampere Speed 1 / speed 2	Resistansi	
	Note :		
	Proses pengecekan fleksibel dengan operator dikarenakan kondisi area sedang produksi agak padat		
E	Lampiran		
	E.1. Form Maintenance		
	Mengetahui		
	Teknisi	SPV	USER
	RIZA		P. Nurwahid



HELINDO tech Indonesia

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 Phone Office : (021) 7870217-8
 Email : pthelindotech@gmail.com Website : www.helindotechindonesia.com



FORM MAINTENANCE

Customer : PT. MULH SPRINTA Kaya
 Technician : Riza
 Problem info : Waktu ngecek
 (.....)

☐ Double Hoist ☐ Crane
☒ Chain Hoist ☐ Cargolift
☐ Rope Hoist ☐ Others

Service report number :

Urgent / Monthly / Yearly / Commissioning

Date : 20/1/2020

Status Unit		
OK	WARNING	URGENT

NOTE :

Model : Double Girder/Single Girder/Monorail
 Serial No. : 1 AM 80702
 SWL : 2T
 Area : Line 10
 Location : Proyek
 Working Condition : Waktu ngecek

Brand Unit : PPMSA
 Brand Hoist / Type : AM 02, 01 D
 Brand Cross / Type : DPE 02
 Brand Long / Type :
 Control Voltage : 48V
 Brand Power Conductor / Type :

No.	ITEM	1	2	3	4	5	6	7
1	GIRDER							
1	1 Girder Construction							
2	2 Joint Plate Bolt							
3	3 Track Support Bolt							
4	4 Festoon Support Bolt							
5	5 Profile C-track							
6	6 Cable Trolley							
7	7 End Cable Clamp							
8	8 Towing Trolley							
9	9 Pendant Trolley							
10	10 End Stop							
2	ENDCARRIAGE							
1	1 Wheel							
2	2 Buffer 1,2,3,4							
3	3 Travel Drive Motor							
4	4 Travel Drive Brake							
5	5 Travel Drive Gear							
3	CABLE PENDANT							
1	1 Emergency Stop							
2	2 Cover							
3	3 Battery							
4	4 Switch on/off							
5	5 Rubber Bottom							
6	6 Legend							
7	7 Element Switch							
8	8 Receiver/Transmitter							
4	POWER RAIL							
1	1 Power Rail							
2	2 Bracket							
3	3 Current Collector							
4	4 Joiner							
5	5 Hanger							
6	6 Feed box							
7	7 Towing Long / Guide							

No.	ITEM	1	2	3	4	5	6	7	1	2	3	4	5	6	7
5	HOIST														
1	1 Wire-rope/CHAIN														
2	2 Wire-rope/CHAIN														
3	3 Rope anchorage														
4	4 Rope Guide														
5	5 Rope Guide Spring														
6	6 Hoisting Motor														
7	7 Hoisting Brake														
8	8 Hoisting Gears														
9	9 Hoisting Lubrication														
10	10 Hoisting Frame														
11	11 Gear Box														
12	12 Bottom Block														
13	13 Safety Latch														
14	14 Hour Meter														
15	15 Roller Counter Weight														
16	16 Towing Cross / Guide														
6	SAFETY DEVICE														
1	1 Hoist Upper Limit Switch														
2	2 Hoist Lower Limit Switch														
3	3 Hoist Overload Protection														
4	4 Hoist Overheat Protection														
5	5 Long Travel Limit Switch														
6	6 Cross Travel Limit Switch														
7	CABLES														
1	1 Hoist Power Cable														
2	2 Hoist Control Cable														
3	3 Mobile Pendant Control Cable														
4	4 Pendant Control Cable														
5	5 Travel Drives Power Cable														
8	CONTROL														
1	1 Hoist Control Panel														
2	2 Bridge Panel														

No.	ITEM	1	2	3	4	5	6	7
13	TROLLEY 1							
1	1 Trolley (crab) Motor							
2	2 Trolley (crab) Brake							
3	3 Trolley Gears							
4	4 Trolley Gears Lubrication							
5	5 Trolley (crab) Wheel							
6	6 Drive Shaft							
7	7 Trolley Buffer 1,2,3,4							
14	TROLLEY 2							
1	1 Trolley (crab) Motor							
2	2 Trolley (crab) Brake							
3	3 Trolley Gears							
4	4 Trolley Gears Lubrication							
5	5 Trolley (crab) Wheel							
6	6 Drive Shaft							
7	7 Trolley Buffer 1,2,3,4							
15	VOLTAGE TEST							
1	1 Voltage Control Bridge Panel							
2	2 Voltage Control Hoist							
16	RUN WAY							
1	1 Rail Dimension							
2	2 Rail Check							
3	3 Stopper Cross							
17	OTHER							
1	1 CH Wireless							
2	2 SN Wireless							
3	3 Type Wireless							
4	4 Junction Box							
OTHER INFORMATION								
REPORT								
1. Ok 4. Repair 7. Adjust								
2. Warning 5. Replace								
3. Urgent 6. Lubricate								

Tela selesai dilakukan pengecekan :

1	cek. RUMAH CHAIN	6	cek. KURUP: LOKUT CABLE	OK.
2	cek. RUMAH CHAIN	7	cek. KURUP: CABLE	OK.
3	cek. RUMAH CHAIN	8	cek. KURUP: CABLE	OK.
4	cek. RUMAH CHAIN	9	cek. KURUP: CABLE	OK.
5	cek. RUMAH CHAIN	10	cek. KURUP: CABLE	OK.

Kondisi saat ini : normal

NOTE : Ampere

1	1. 1.6 A	2	2. 1.6 A
3	3. 1.6 A	4	4. 1.6 A

No.	Description	Part No	QTY
1			
2			
3			
4			
5			
6			

No.	Description	Part No	QTY
1	1. 1.6 A		
2	2. 1.6 A		
3	3. 1.6 A		
4	4. 1.6 A		
5	5. 1.6 A		
6	6. 1.6 A		

Service Technician

The client was informed about the found detected and the danger resulting there from

WORKING HOURS

Customer