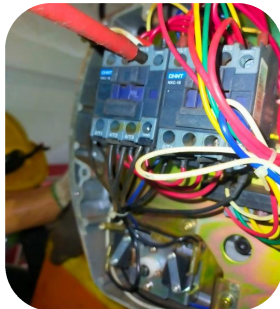
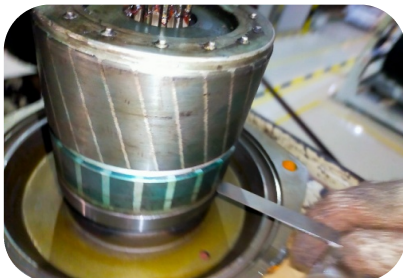
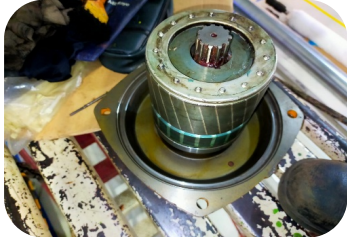
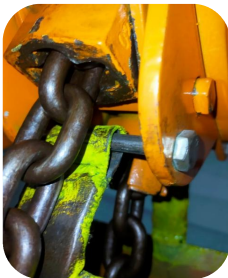
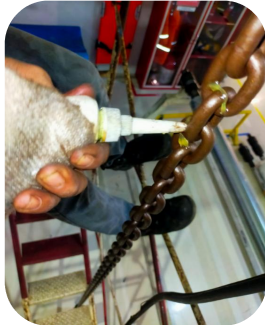
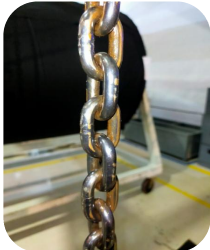
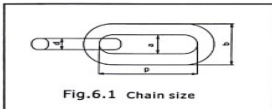
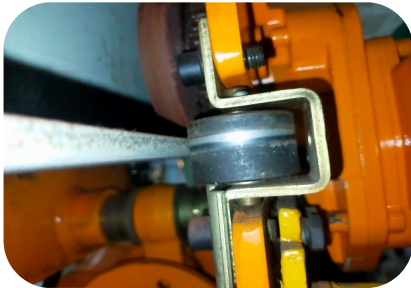


		LAPORAN PEKERJAAN		No. Formulir	HI-F-11-01	
				Revisi	R 1	
				Tanggal Revisi	01/02/2024	
Customer	PT. MULTI SPUNINDO JAYA		☒ Preventive Maintenance			
	Address	Ds. Jabaran RT.008 RW.003 Jabaran, Balongbendo		☒ Pengecekan		
	User	Pak Nurwahid		☐ Pemasangan/Pembongkaran		
Technician	Electrical	Riza		☐ Perbaikan		
	Mechanical	Hendra		No. Report	LP-MSJ-2601009-PM	
Waktu	Tanggal	20/01/2026		Surat Perintah Kerja		
	Jam	09.00 - 13.20		No. Form Maintenance		
Info Pekerjaan	Preventive Maintenance Monorail SWL 2 Ton			No PO	5100030879	
	Area :	Line 15 Slitter		Tanggal Laporan	23/01/2026	
Note Unit :	Type Unit	Monorail	Wire rope / Chain	Chain	Note Unit : 21022629	
	Merk Hoist	SHC	Cross Travel	SC-02		
	Type Hoist	HHBB 02-01	Long Travel	-		
	SWL	2 Ton	Garansi Info	-		
DETAIL SURVEY / PENGECEKAN / PERBAIKAN						
No.	URAIAN HASIL PEKERJAAN				COMMENT AND INSPECTION RESULT (Mention any trouble, repair, replace, substandard or danger)	
A	Diskripsi					
	A.1. Informasi / Permintaan dari User atau Customer / Info Trouble :					
	1.	Informasi Pekerjaan				
		Preventive Maintenance Monorail SWL 2 Ton				
B	Hasil Pekerjaan			Waktu Pekerjaan		
	1. Progress Pekerjaan			MULAI	FINISH	
	A	Persiapan				
	1.1.	Proses pengurusan work permit			09.00 09.10	
	1.2.	Proses persiapan, mobilisasi Alat kerja			09.10 09.15	
	B.	Preventive Maintenance Monorail SWL 2 Ton			09.15 12.00	
	1.1.	» Detail Deskripsi : - Cek kondisi fisik Unit. - Cek box chain ok - Cek brake cross ok - cek brake hoist ok - Lubrikasi gear roda cross - lubrikasi chain - Cek diameter chain (9,9 mm) - cek roda cross ok - cek function Limit up-down ok - Safety lact ok - Guide chain ok - cek baut baut komponen electrical. - kulit kabel pendant indikasi sobek ² - Lubrikasi as brake cross - cek gab brake hoist 0,8 mm - cleaning unit - Trial - Cek Ampere				
	C.	Proses Finishing				
	1.1.	Proses Perapian Alat Kerja & Area Kerja.			13.00 13.10	
	1.2.	Test pengoperasian bersama user , Pembuatan laporan maintenance dan tandatangan PIC area			13.10 13.15	
	1.3.	Pengembalian alat kerja			13.15 13.20	
	1.4.	Selesai			13.20	
2. Penggantian Part yang Sudah Dilakukan						
	NO	ITEM	SPESIFIKASI	QTY	SATUAN Keterangan tambahan	
	1.					
3. Kesimpulan						
	3.1.	Telah selesai dilakukan pengecekan dan perawatan Monorail SWL 1x2 Ton Hasil Test fungsi Normal				
	3.2.	Hasil cek kondisi chain bucket baik				
	3.3.	Kondisi kabel pendant indikasi terkelupas - prepare rekomendasi				

4. Action Plan						
4.1.		Next PM				
4.2.		Pengajuan Part rekomendasi				
4.3.		Pemasangan end stop load chain sebagai batas setting limit switch upper hoist , untuk menghilangkan potensi spreader menabrak chain bucket				
5. Rekomendasi Part						
	NO	ITEM	SPESIFIKASI	QTY	SATUAN	Keterangan tambahan
	1	END STOP LOADCHAIN	CHAIN 10,0 BRIMA	1	PCS	untuk batas setting limit switch upper hoist , untuk menghilangkan potensi spreader menabrak chain bucket
	2	KABEL PENDANT	12X1,5 -6 METER	1	ROLL	Kabel Pendant Terkelupas
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. Kondisi Push button OK		1.4. Kondisi kabel Pendant terkelupas / sobek			
						
	C2. PENGECEKAN BRAKE					
	2.1. Pengecekan kondisi brake OK dan gap brake 0,8 mm OK					
						

2.2. Pengecekan kondisi brake OK dan gap brake 0,8 mm 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	3.4. Dimensi chain 9,9mm																										
 																											
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 diameter 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 *****  Fig.6.1 Chain size <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
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%$\times$10,0)=9,0 mm internal link 30mm+(5%$\times$30mm)=31,5 mm																											

C4. PENGECEKAN RODA DAN GUIDE ROLLER			
4.1. Kondisi roda non drive cross OK	4. Kondisi roda drive cross dan lubrikasi roda drive OK		
			
5. Kondisi roller guide cross OK	6. Kondisi roller guide cross OK		
			
D	Keterangan		
Hasil Pengecekan Motor			
Cek Ampere Hoist		Resistansi	
R. 4,4 A		UV : 3,4 Ω	ok
S. 4,3 A		UW: 3,3 Ω	ok
T. 4,4 A		VW: 3,4 Ω	ok
Cek Ampere Cross		Resistansi	
R. 1,1 A		UV : 45,1 Ω	ok
S. 1,0 A		UW: 45,2 Ω	ok
T. 1,1 A		VW: 45,1 Ω	ok
Cek Ampere Long		Cek Resistansi Motor Long Travel	
Note :			
E	Lampiran		
E.1. Form maintenance			
Mengetahui			
	Teknisi		USER
	Riza		Pak Nurwahid

HELINDO tech Indonesia
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 Branch Office : Pergudangan BIZ Point 5 Cikupa, Jl. Queensland No. 05, Desa. Sukamulya, Kec. Cikupa, Kab. Tangerang, Banten
 Phone Office : (021) 7870217-8 Email : pthelindotech@gmail.com Website : www.helindotechindonesia.com

FORM MAINTENANCE

Customer : PT. Mulji Spunindo Jaya
 Technician : R. D. H. H. H.
 Problem info : mounting & hoist

Service report number :
 Urgent / Monthly / Yearly / Commissioning
 Date : 19/11/2025

Status Unit
☒ OK ☐ WARNING ☐ URGENT
 NOTE :

Model : Double Girder/Single Girder/Monorail
 Serial No. : 1 21022624 2
 SWL : 2T
 Area : Line R
 Location : Slater
 Working Condition : ketidnguan

Brand Unit : SHC
 Brand Hoist / Type : THBD 02-01
 Brand Cross / Type : SC-02
 Brand Long / Type :
 Control Voltage : 36V
 Brand Power Conductor / Type :

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

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

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

Telah selesai dilakukan pengecekan :

No.	ITEM	1	2	3	4	5	6	7
1	cek. diameter chain							
2	lubri. kat. gear roller cross							
3	lubri. kat. chain							
4	cek. gap brake kampas							
5	lubri. kat. as. brake cross							

Kondisi saat ini : hoist dapat beroperasi dengan normal.

NOTE : Ampere :

No.	ITEM	1	2	3	4	5	6	7
1	Hoist							
2	As. 1							
3	As. 2							
4	As. 3							
5	As. 4							
6	As. 5							
7	As. 6							
8	As. 7							
9	As. 8							
10	As. 9							

Spare parts are replaced

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

We Recommended you to Order

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

Service Technician : R. D. H. H. H.
 The client was informed about the found detected and the danger resulting there form
 WORKING HOURS :
 Customer : Amunip