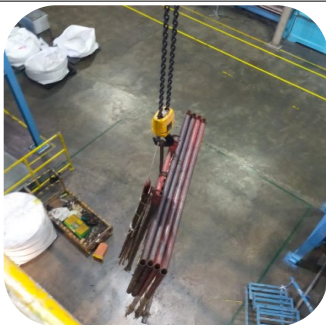
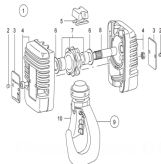


		LAPORAN PEKERJAAN		No. Formulir	HI-F-11-01
				Revisi	R 1
				Tanggal Revisi	01/02/2024
Customer	PT. MULTI SPUNINDO JAYA			☒	Preventive Maintenance
	Address	Ds. Jabaran RT.008 RW.003 Jabaran, Balongbendo		☒	Pengecekan
	User	Pak Gembong		☐	Pemasangan/Pembongkaran
Technician	Electrical	RIZA		☐	Perbaikan
	Mechanical	HENDRA		No. Report	LP-MSJ-2601011-PM
Waktu	Tanggal	21/1/2026		Surat Perintah Kerja	
	Jam	13.00 - 17.00		No. Form Maintenance	
Info Pekerjaan	Preventive maintenance Monorail Hopper Line 1 & 2			No PO	5100032325
	Area :	Hopper Line 1&2		Tanggal Laporan	24/01/2026
Note Unit :	Type Unit	Monorail	Wire rope / Chain	Chain	Note Unit : DKUN 10 - 1250 K VI Nr. 61811356
	Merk Hoist	Demag	Cross Travel	13/3 PF	
	Type Hoist	DKUN 10	Long Travel	-	
	SWL	2,5 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 Hopper Line 1 & 2			
B	Hasil Pekerjaan		Waktu Pekerjaan		
	1. Progress Pekerjaan		MULAI	FINISH	
	A	Persiapan			
	1.1.	Proses pengurusan work permit /koordinasi terkait pekerjaan	13.00	13.25	
	1.2.	Proses persiapan, mobilisasi Alat kerja	13.25	13.45	
	B.	Preventive maintenance Monorail Hopper Line 1 & 2	13.45	16.30	
	1.1.	» Detail Deskripsi : - cek kondisi fisik Unit. - cleaning unit - cleaning box chain - cek fungsi brake hoist ok - cek fungsi brake cross ok - lubrikasi gear roda cross - cek Roda cross ok - cek diameter chain (7,1mm) - Guide chain ok - lubrikasi as brake hoist. - lubrikasi bottom block - lubrikasi chain. - ditemukan safety lact cacat - body motor bopel - cek baut baut komponen electrical - cek kabel round power OK - Trial - Cek Ampere			
	C.	Proses Finishing			
	1.1.	Proses Perapian Alat Kerja & Area Kerja.	16.30	16.40	
	1.2.	Test pengoperasian bersama user , Pembuatan laporan maintenance dan tandatangan PIC area	16.40	16.50	
	1.3.	Pengembalian alat kerja	16.50	17.00	
	1.4.	Selesai		17.00	
2. Penggantian Part yang Sudah Dilakukan					
	NO	ITEM	SPESIFIKASI	QTY	SATUAN
	1.				

3. Kesimpulan						
3.1	Kondisi unit baik dan berfungsi normal					
3.2	Hati hati safety latch kondisi cacat					
3.3						
4. Action Plan						
4.1.	Next PM					
4.2.	Pengecekan berkala dan Penggantian part rekomendasi					
4.3.						
5. Rekomendasi Part						
NO	ITEM	SPESIFIKASI	QTY	SATUAN	Keterangan tambahan	
1.	CHAIN BOX	DKUN 10 2/1 + PENGUATAN	1	SET	 BODY PECAH	
2	Safety latch	DKUN 10 2/1	1	PCS	 SAFETY LATCH TIDAK BERFUNGSI TIDAK BISA MENGUNCI	
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. Proses loading unloading alat kerja ke lantai 3		1.4. proses trial unit				
						

C2. PENGECEKAN BRAKE																																												
2.1. Pengecekan brake hoist kondisi OK	2.2. Pengecekan brake cross travel kondisi OK																																											
																																												
C3. PENGECEKAN LOAD CHAIN DAN HOOK																																												
3.1. Kondisi guide chain dan limit switch OK	3.2. Kondisi Box chain Pecah (kondisi saat ini sudah ada penguatan sementara agar tetap bisa digunakan)																																											
		Kondisi chain box cacat / pecah																																										
3.3. Pengecakan Load Chain 7,10 mm OK	3.4. Pengecekan Hook OK dan Safety Latch Tidak berfungsi																																											
		Cover Bottom Block Baik  Diameter chain saat ini 7,10 mm (Toleransi)																																										
C.3.5. Standart dimensi Chain																																												
<table><tr><td colspan="6">Table 2</td></tr><tr><td>Demag chain hoist</td><td>DKUN 2</td><td>DKUN 5</td><td>DKUN 10</td><td>DKUN 16</td><td>DKUN 20</td></tr><tr><td>Chain designation d x t</td><td>4,2 x 12,2</td><td>5,3 x 15,2</td><td>7,4 x 21,2</td><td>7,4 x 21,2</td><td>10,5 x 28,2</td></tr><tr><td colspan="6">Limit dimensions according to DIN 685 part 5</td></tr><tr><td>Overall length of 11 links, maximum dimension a = a1 + a2 + a3</td><td>144,7 mm (5.69 in)</td><td>180,3 mm (7.09 in)</td><td>253 mm (9.96 in)</td><td>287,9 mm (11.31 in)</td><td>337,4 mm (13.28 in)</td></tr><tr><td>Inside length of 1 link, maximum dimension t</td><td>12,8 mm (0.50 in)</td><td>15,9 mm (0.62 in)</td><td>22,4 mm (0.88 in)</td><td>25,5 mm (1 in)</td><td>29,8 mm (1.18 in)</td></tr><tr><td>Measuring the chain link diameter (see fig. 70) Minimum dimension dm = 0,9 x d</td><td>3,8 mm (0.15 in)</td><td>4,8 mm (0.19 in)</td><td>6,7 mm (0.26 in)</td><td>7,8 mm (0.30 in)</td><td>9,45 mm (0.38 in)</td></tr></table>		Table 2						Demag chain hoist	DKUN 2	DKUN 5	DKUN 10	DKUN 16	DKUN 20	Chain designation d x t	4,2 x 12,2	5,3 x 15,2	7,4 x 21,2	7,4 x 21,2	10,5 x 28,2	Limit dimensions according to DIN 685 part 5						Overall length of 11 links, maximum dimension a = a1 + a2 + a3	144,7 mm (5.69 in)	180,3 mm (7.09 in)	253 mm (9.96 in)	287,9 mm (11.31 in)	337,4 mm (13.28 in)	Inside length of 1 link, maximum dimension t	12,8 mm (0.50 in)	15,9 mm (0.62 in)	22,4 mm (0.88 in)	25,5 mm (1 in)	29,8 mm (1.18 in)	Measuring the chain link diameter (see fig. 70) Minimum dimension dm = 0,9 x d	3,8 mm (0.15 in)	4,8 mm (0.19 in)	6,7 mm (0.26 in)	7,8 mm (0.30 in)	9,45 mm (0.38 in)	STD C.3.5. dimensi chain minimal untuk chain 7,4 mm adalah 6,7 mm
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C4. PENGECEKAN RODA			
4.1. Kondisi roda non drive cross OK	4.2. Kondisi roda drive cross dan lubrikasi roda drive OK		
		kondisi roda Drive cross travel	
D	Keterangan		
Hasil Pengecekan Motor			
Cek Ampere Hoist		Cek Resistansi Motor Hoist	
R. 5,2 A		UV : 5,6 Ω	
S. 5,3 A		UW: 5,6 Ω	
T. 5,3 A		VW: 5,5 Ω	
Cek Ampere Cross		Cek Resistansi Motor Cross	
R. 0,4 A		UV : 155,3 Ω	
S. 0,4 A		UW: 154,9 Ω	
T. 0,4 A		VW: 155,2 Ω	
Note :			
Kondisi Unit Saat ini Masih dapat digunakan dengan baik			
E	Lampiran		
E.1. Form maintenance			
Mengetahui			
Teknisi		USER	
RIZA		Pak Gembong	



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. Nall Hi Spunindo Jay.
 Technician : Riza, Hekdra.
 Problem info : Maintenance HOIST.
 (.....)

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

Service report number :

Urgent / Monthly / Yearly / Commissioning

Date : 21/11/2026

Status Unit		
☒ OK	☐ WARNING	☐ URGENT

NOTE :

Model : Double Girder/Single Girder/Monorail
 Serial No. : 1 6181496 2
 SWL : 2 t
 Area : Jl. Gedung P.
 Location : hopper dalam a.
 Working Condition : ketegangan.

Brand Unit : DEMAG
 Brand Hoist / Type : DKUN 10-12 t6 4V1
 Brand Cross / Type :
 Brand Long / Type :
 Control Voltage : 220 V
 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 Joiner							
	5 Hanger							
	6 Feed box							
	7 Towing Long / Guide							
5	HOIST							
	1 Wire Rope/CHAIN							
	2 Wire Rope							
	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							
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							
	7 Adjust							

Telah selesai dilakukan pengecekan :

1	Cek. diameter. Chain.	6	Cek. pengal. brake cross.	OK
2	Cek. jarak antar roda cross.	7	Cek. cleaning unit.	
3	Cek. roda cross.	8	Cek. body motor hoist bepet.	
4	Cek. safety bel. milika. catat.	9		
5	Cek. pengal. brake hoist.	10		

Kondisi saat ini : Hoist dapat dipergunakan dengan normal.

NOTE : Amper :

Hoist	Crane
R. 2 A	P. 0.4 A
J. 3 A	S. 0.4 A
Y. 3 A	T. 0.4 A

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	body part. Demag. J.T. DKUN 10	1	RS
2	body chain. Demag. J.T. DKUN 10	1	RS
3			
4			
5			
6			

Service Technician

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

WORKING HOURS

Customer