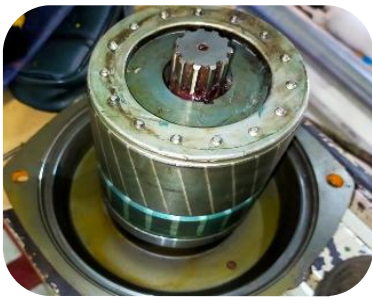
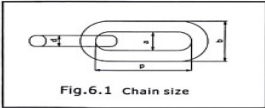


		LAPORAN PEKERJAAN		No. Formulir	HI-F-11-01
				Revisi	R 1
				Tanggal Revisi	45323
Customer	PT. MULTI SPUNINDO JAYA			☒	Preventive Maintenance
	Address	Ds. Jabaran RT.008 RW.003 Jabaran, Balongbendo		☒	Pengecekan
	User	Pak Nurwahid		☒	Pemasangan/Pembongkaran
Technician	Electrical	Riza		☒	Perbaikan
	Mechanical	Choirul			
Waktu	Tanggal	18/02/2026		No. Report	LP-MSJ-2602002-PM-PP
	Jam	09.00 - 13.20		Surat Perintah Kerja	
Info Pekerjaan	Preventive Maintenance dan Pemasangan Part Monorail SWL 2 Ton			No. Form Maintenance	
	Area :	Line 15 Slitter		No PO	5100033075
				Tanggal Laporan	20/02/2026
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					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.	Informasi Pekerjaan			
		Preventive Maintenance dan Pemasangan Part 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	09.30	
	B.	Preventive Maintenance dan Pemasangan Part Monorail SWL 2 Ton	09.30	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 - Cek diameter chain (9,9 mm) - cek roda cross ok - cek function Limit up-down ok - Safety lach ok - Guide chain ok - cek baut* komponen electrical. - kulit kabel pendant indikasi sobek* - Lubrikasi as brake cross - adjust gab brake hoist 0,9 -> 08 mm - adjust kabel pendant - replace kepala emergency. - 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
	1	END STOP LOADCHAIN	CHAIN 10,0 BRIMA	1	PCS
					
				Keterangan tambahan berfungsi dengan baik	

	2	Emergency stop	Aus -ada stok	1	PCS	berfungsi dengan baik
						
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 dan end stop load chain sudah terpasang				
	3.3.	Kondisi kabel pendant indikasi terkelupas - prepare rekomendasi				
4. Action Plan						
	4.1.	Next PM				
	4.2.	Pengajuan Part rekomendasi				
5. Rekomendasi Part						
	NO	ITEM	SPESIFIKASI	QTY	SATUAN	Keterangan tambahan
	1	KABEL PENDANT (REK NOV 2025)	12X1,5 -6 METER	1	ROLL	1.4. Kondisi kabel Pendant terkelupas / sobek
						
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 Emergency stop tidak bisa Lock dan dilakukan Preventive penggantian Part baru dan berfungsi Normal		1.4. Kondisi kabel Pendant terkelupas / sobek			
	 		  			dilakukan perapian kabel

	C2. PENGECEKAN BRAKE		
	2.1. Pengecekan kondisi brake OK dan setting gap brake dari 0,9 mm menjadi 0,8 mm OK		
			
	2.2. Pengecekan kondisi brake cross travel 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 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 *****  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	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																							
3.6. Kondisi chain bucket OK	3.7. Kondisi bottom hook dan spring OK dan sudah dilakukan pemasangan end stop chain																										
		end stop berfungsi dengan baik - untuk mencegah hangerspreader menabrak chain box																									
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. 4,1 A	UV : 3,4 Ω	ok
	S. 4,6 A	UW: 3,3 Ω	ok
	T. 4,4 A	VW: 3,4 Ω	ok
	Cek Ampere Cross	Resistansi	
	R. 1,2 A	UV : 45,1 Ω	ok
	S. 1,1 A	UW: 45,2 Ω	ok
	T. 1,2 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



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



FORM MAINTENANCE

Customer : PT. MULIA SPUNDA PRA

Technician : Riza, Kholid

Problem info : Maintenance MONIT

Service report number : Urgent / Monthly / Yearly / Commissioning

Date : 18 / 2 / 2026

Status Unit

OK
WARNING
URGENT

NOTE :

Model : Double Girder / Single Girder / Monorail

Serial No : 21 0322 629

SWL : 27

Area : Upper 10

Location : Slitter

Working Condition : Working

Brand Unit : SHC

Brand Hoist / Type : HH BB 02 - 01

Brand Cross / Type : CC - 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	Legenda							
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								
7. Adjust								

Telaah selesai dilakukan pengecekan :

1	Ch. Hoist Chain	g. 9 mm	6	OK	Hoist Brake	MONIT	OK
2	Hoist gear roller	cast	7	OK	Hoist Brake	MONIT	OK
3	Hoist gear roller	cast	8	OK	Hoist Brake	MONIT	OK
4	Hoist gear roller	cast	9	OK	Hoist Brake	MONIT	OK
5	Hoist gear roller	cast	10	OK	Hoist Brake	MONIT	OK

Kondisi saat ini : MONIT dapat dioperasikan dengan normal!

NOTE : Amper: MONIT R: 9.1 A S: 9.6 A T: 9.4 A CRAB R: 12 A S: 1.1 A T: 1.2 A

No.	Description	Part No	QTY
1	kapasitor emergency pendulum	1	pc
2			
3			
4			
5			
6			

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

Service Technician

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

WORKING HOURS

12.21

Customer

Nurwahid