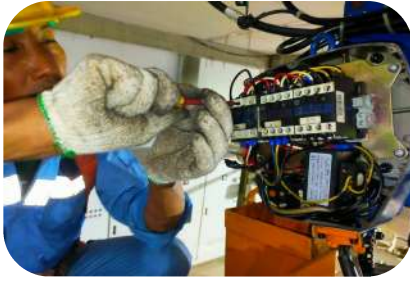
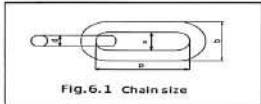
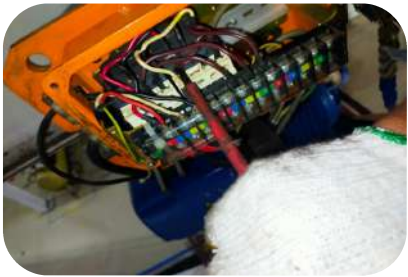


		LAPORAN PEKERJAAN		No. Formulir	HI-F-11-01
				Revisi	R 2
				Tanggal Revisi	20/01/2026
Customer	PT. MULTI SPUNINDO JAYA			☒	Preventive Maintenance
	Address	Ds. Jabaran RT.008 RW.003 Jabaran, Balongbendo		☒	Pengecekan
	User	Pak Nurwahid		☐	Pemasangan/Pembongkaran
Technician	Electrical	RIZA		☐	Perbaikan
	Mechanical	Juki, Choirul		No. Report	LP-MSJ-2601005-PM
Waktu	Tanggal	14/01/2026		Surat Perintah Kerja	
	Jam	09.00 - 16.00 wib		No. Form Maintenance	
Info Pekerjaan	Preventive Maintenance			No PO	5100032362
	Area :	Line 8			Tanggal Laporan
Note Unit :	Type Unit	Monorail	Wire rope / Chain	Chain	Note Unit : Nr. 15120175 v
	Merk Hoist	HINATSU	Cross Travel	E22	
	Type Hoist	SSDHL 03-03	Long Travel	-	
	SWL	3 Ton	Garansi Info	-	
STATUS KONDISI UNIT SECARA UMUM		KONDISI 2 -- WARNING-- HATI HATI SAAT PENGOPERASIAN--PREPARE SPARE PART / PERLU PERBAIKAN LANJUTAN			CEK KONDISI PART PADA KOLOM KESIMPULAN B.3
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.	Preventive Maintenance			
B	Hasil Pekerjaan			Waktu Pekerjaan	
	1. Progress Pekerjaan			MULAI FINISH	
	A	Persiapan			
	1.1.	Proses Koordinasi / pembuatan work permit			09.00 09.30
	1.2.	Proses persiapan, mobilisasi Alat kerja dan Instal scaffolding			09.30 09.40
	B.	Preventive Maintenance			09.40 14.00
	1.1.	» Detail Deskripsi : - Cek kondisi fisik Unit. - Cleaning box chain - Box chain ok - Cleaning chain - Setting Gab brake hoist (0,6 mm) - Brake hoist ok - Brake cross ok - Lubrikasi gear roda cross - Lubrikasi as brake motor cross travel - lubrikasi as brake hoist			
	1.2.	- Cek diameter chain (6,9 mm) - Cek roda cross ok - Limit up-down ok - Safety lact ok - Guide chain ok - Guide chain bottom block aus(warning) - terdapat sedikit rembesan oli pada gearbox hoist.			
	D.	Proses Finishing			
	1.1.	Proses Perapian Alat Kerja & Area Kerja.			15.30 15.40
	1.2.	Pengembalian alat kerja			15.40 15.50
	1.3.	Selesai			16.00
2. Penggantian Part yang Sudah Dilakukan					
	NO	ITEM	SPESIFIKASI	QTY SATUAN	Keterangan tambahan
	1.				
	2.				

3. Kesimpulan					Keterangan tambahan
3.1.	UJI FUNGSI UNIT	OK			
3.2.	SAFETY DEVICE STANDAR	OK			
3.3.	LOAD CHAIN/WIREROPE	OK			
3.4.	BRAKE HOIST	OK			
3.5.	BRAKE CROSS / LONG	OK			
3.6.	CEK OLI GEARBOX	WARNING -OLI BOCOR / REMBES			CEK REKOMENDASI
3.7.	KONDISI FESTON/ELECTRICAL	OK			
3.8.	KONDISI PENDANT/REMOTE	OK			
3.9.	PERBAIKAN TROUBLE	OK - TIDAK ADA TROUBLE			
3.10.	LAIN LAIN				
STATUS KONDISI UNIT SECARA UMUM					
KONDISI 2 -- WARNING-- HATI HATI SAAT PENGOPERASIAN--PREPARE SPARE PART / PERLU PERBAIKAN LANJUTAN					CEK KONDISI PART PADA KOLOM KESIMPULAN B.3
4. Action Plan					
4.1.	Next PM				
4.2.	Rekomendasi Overhaul untuk perbaikan oli rembes				
5. Rekomendasi Part					
NO	ITEM	SPESIFIKASI	QTY	SATUAN	Keterangan tambahan
1.	Over Houl Gearbox Hoist (Rekomendasi Oktober 2024)	Oli gearbox bocor / rembes	1	Lot	C.15.1. gearbox indikasi rembes
					
2.					
C	Dokumentasi Hasil Pekerjaan				Keterangan tambahan
1. Pengecekan kondisi dan gap brake Hoist 0,6 mm OK		2. lubrikasi shaft dan cleaning brake hoist			
					cleaning dan penambahan lubrikasi pada as/ shaft motor hoist
3. Pengecekan guide roller cross kondisi baik		4. lubrikasi shaft motor Cross			
					dilakukan pengecekan brake kondisi baik

5. Cleaning komponen electrical dan connection terminal	6. pengecekan kondisi brake cross travel baik	
		pengecekan panel
7. Pengecekan limit switch hoist berfungsi dengan baik	8. Lubrikasi gear roda cross travel dan cek roda	
		Visual Cek Roda Cross kondisi Baik dilakukan penambahan lubrikasi pada gear serta load chain
9. Pengecekan diameter roda cross drive kondisi baik (124.5mm)	10. Pengecekan diameter roda cross non drive kondisi baik (123.5mm)	
		kondisi roda cross baik
11. Kondisi chain guide	12. Pengecekan diameter chain 6,9 mm dan lubrikasi ulang	
		dari hasil ukur kondisi chain baik diameter 6,9 mm OK Cek Standart dibawah C.12.1.

		lubrikasi ulang																									
	C.12.1. 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><thead><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></thead><tbody><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></tbody></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 7,1mm- $(10\% \times 7,1) = 6,39 \text{ mm}$ internal link $30\text{mm} + (5\% \times 21\text{mm}) = 22,05 \text{ mm}$
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																							
13. Kondisi safety latch baik dan guide chain bottom block indikasi mulai aus masih dalam toleransi		14. Kondisi chain box baik																									
		safety latch dan chain box baik																									
15. Kondisi gearbox indikasi rembes sementara dilakukan penambahan silicon bualan sepetember (masih ada indikasi rembes)		15. Kondisi gearbox indikasi rembes sementara dilakukan penambahan silicon bualan sepetember (masih ada indikasi rembes)																									
		C.15.1. gearbox indikasi rembes																									

16. Pengecekan panel cross travel		17. pengecekan pendant kondisi baik	
			Kondisi electrical baik
D	Keterangan		
	Hasil Pengecekan Hoist		
	Ampere Speed 1 / speed 2	Resistansi	
	R. 2,5 A	Uv. 10,2 Ω	OK
	S. 2,4 A	Uw. 10,2 Ω	OK
	T. 2,5 A	Vw. 10,1 Ω	OK
	Hasil Pengecekan Cross		
	Ampere Speed 1 / speed 2	Resistansi	
	R. 1,8 A	Uv. 23,1 Ω	OK
	S. 1,5 A	Uw. 24,9 Ω	OK
	T. 1,5 A	Vw. 23,3 Ω	OK
	Hasil Pengecekan Long		
	Ampere Speed 1 / speed 2	Resistansi	
	Note :		
	Proses pengecekan fleksibel dengan operator dikarenakan kondisi area sedang produksi		
E	Lampiran		
	E.1. Form Maintenance		
	Mengetahui		
	Teknisi	SPV	USER
	RIZA		P. Nurwahid



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



ISO 9001 REGISTERED

FORM MAINTENANCE

Customer : PT. Multi Purnama Jaya

Technician : R. D. Juki

Problem info : maintenansi. trolly.

Working Condition : Belum

Service report number : _____

Urgent / Monthly / Yearly / Commissioning : _____

Date : 11/1/2026

Status Unit

OK
WARNING
URGENT

NOTE :

Model : Double Girder / Single Girder / Monorail

Serial No. : 1-12 0120

SWL : 37

Area : Low to

Location : pt. multi purnama

Working Condition : Belum

Brand Unit : MINAT-PU

Brand Hoist / Type : SDHL CS - CS

Brand Cross / Type : THH 1A

Brand Long / Type : _____

Control Voltage : 40 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 Fasten Support Bolt							
	5 Profile C-track							
	6 Cable Trolley							
	7 End Cable Clamp							
	8 Towing Trolley							
	9 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							

No.	ITEM	1	2	3	4	5	6	7
5	HOIST							
	1 Wire Rope/CHAIN							
	2 Wire Rope/CHAIN							
	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							

Telah selesai dilakukan pengecekan :

1. <u>Uji Mekanis</u>	2. <u>Uji Mekanis</u>	3. <u>Uji Mekanis</u>
4. <u>Uji Mekanis</u>	5. <u>Uji Mekanis</u>	6. <u>Uji Mekanis</u>
7. <u>Uji Mekanis</u>	8. <u>Uji Mekanis</u>	9. <u>Uji Mekanis</u>
10. <u>Uji Mekanis</u>	11. <u>Uji Mekanis</u>	12. <u>Uji Mekanis</u>

Kondisi saat ini : Normal

NOTE :

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.

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. Juki

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

WORKING HOURS

11.00 - 17.00

Customer

[Signature]