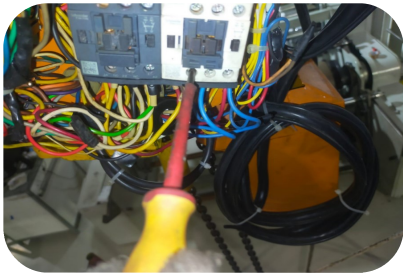
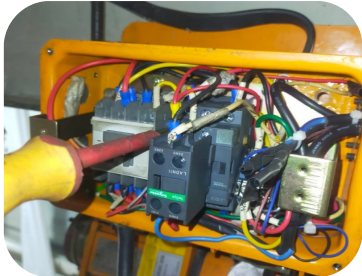


|                                                                                   |                                                                      |                                                                                                                                                                                                                                                                                                                                                            |                   |                                     |                                     |                                                               |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------------------------|-------------------------------------|---------------------------------------------------------------|
|  |                                                                      | LAPORAN PEKERJAAN                                                                                                                                                                                                                                                                                                                                          |                   |                                     | No. Formulir                        | HI-F-11-01                                                    |
|                                                                                   |                                                                      |                                                                                                                                                                                                                                                                                                                                                            |                   |                                     | Revisi                              | R 1                                                           |
|                                                                                   |                                                                      |                                                                                                                                                                                                                                                                                                                                                            |                   |                                     | Tanggal Revisi                      | 01/02/2024                                                    |
| Customer                                                                          | PT. MULTI SPUNINDO JAYA                                              |                                                                                                                                                                                                                                                                                                                                                            |                   | <input checked="" type="checkbox"/> | Preventive Maintenance              |                                                               |
|                                                                                   | Address                                                              | Ds. Jabaran RT.008 RW.003 Jabaran, Balongbendo                                                                                                                                                                                                                                                                                                             |                   |                                     | <input checked="" type="checkbox"/> | Pengecekan                                                    |
|                                                                                   | User                                                                 | Pak Gembong                                                                                                                                                                                                                                                                                                                                                |                   |                                     | <input type="checkbox"/>            | Pemasangan/Pembongkaran                                       |
| Technician                                                                        | Electrical                                                           | RIZA                                                                                                                                                                                                                                                                                                                                                       |                   |                                     | <input type="checkbox"/>            | Perbaikan                                                     |
|                                                                                   | Mechanical                                                           | HENDRA                                                                                                                                                                                                                                                                                                                                                     |                   |                                     | No. Report                          | LP-MSJ-2601012-PM                                             |
| Waktu                                                                             | Tanggal                                                              | 26/01/2026                                                                                                                                                                                                                                                                                                                                                 |                   |                                     | Surat Perintah Kerja                |                                                               |
|                                                                                   | Jam                                                                  | 09:00 sd 14:50                                                                                                                                                                                                                                                                                                                                             |                   |                                     | No. Form Maintenance                |                                                               |
| Info Pekerjaan                                                                    | Preventive Maintenance Monorail Line 11                              |                                                                                                                                                                                                                                                                                                                                                            |                   | No PO                               | 5100032325                          |                                                               |
|                                                                                   | Area :                                                               | Line 11                                                                                                                                                                                                                                                                                                                                                    |                   |                                     | Tanggal Laporan                     | 29/01/2025                                                    |
| Note Unit :                                                                       | Type Unit                                                            | Monorail                                                                                                                                                                                                                                                                                                                                                   | Wire rope / Chain | Chain (7,1 mm x 21 mm x 13 mtr )    |                                     |                                                               |
|                                                                                   | Merk Hoist                                                           | SAMSUNG                                                                                                                                                                                                                                                                                                                                                    | Cross Travel      | -                                   |                                     |                                                               |
|                                                                                   | Type Hoist                                                           | SM T-S2000                                                                                                                                                                                                                                                                                                                                                 | 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 Monorail Line 11                                                                                                                                                                                                                                                                                                                    |                   |                                     |                                     |                                                               |
| B                                                                                 | Hasil Pekerjaan                                                      |                                                                                                                                                                                                                                                                                                                                                            |                   | Waktu Pekerjaan                     |                                     |                                                               |
|                                                                                   | 1. Progress Pekerjaan                                                |                                                                                                                                                                                                                                                                                                                                                            |                   | MULAI                               | FINISH                              |                                                               |
|                                                                                   | A                                                                    | Persiapan                                                                                                                                                                                                                                                                                                                                                  |                   |                                     |                                     |                                                               |
|                                                                                   | 1.1.                                                                 | Proses pengurusan work permit / koordinasi pekerjaan                                                                                                                                                                                                                                                                                                       |                   |                                     | 09.00                               | 09.30                                                         |
|                                                                                   | 1.2.                                                                 | Proses persiapan, mobilisasi Alat kerja                                                                                                                                                                                                                                                                                                                    |                   |                                     | 09.30                               | 09.45                                                         |
|                                                                                   | B.1                                                                  | Preventive Maintenance Monorail Line 11                                                                                                                                                                                                                                                                                                                    |                   |                                     | 09.45                               | 14.00                                                         |
|                                                                                   | 1.1.                                                                 | » Detail Deskripsi :<br>- Cek kondisi fisik Unit.<br>- Cek Box chain<br>- Cleaning chain<br>- Adjust gap brake hoist 0,5 mm<br>- Adjust gap brake cross 0,4 mm<br>- Cek fungsi Brake hoist ok<br>- Cek fungsi Brake cross ok<br>- Lubrikasi gear roda cross<br>- Cek roda cross ok<br>- Cek diameter chain (7,1 mm)<br>- cek baut baut komponen electrical |                   |                                     |                                     |                                                               |
|                                                                                   |                                                                      | - Safety lact ok<br>- Guide chain ok<br>- Kepala emergency pendant tidak ada. Sudah tanya tim electrical pak gembong tidak ada stock kepala emergency pendant.<br>- cleaning chain.<br>- Aplikasi silikon gearbox hoist.<br>- Trial<br>- Cek Ampere                                                                                                        |                   |                                     |                                     |                                                               |
|                                                                                   | D.                                                                   | Proses Finishing                                                                                                                                                                                                                                                                                                                                           |                   |                                     |                                     |                                                               |
|                                                                                   | 1.1.                                                                 | Proses Perapian Alat Kerja & Area Kerja.                                                                                                                                                                                                                                                                                                                   |                   |                                     | 14.00                               | 14.10                                                         |
|                                                                                   | 1.2.                                                                 | Test pengoperasian bersama user , Pembuatan laporan maintenance dan tandatangan PIC area                                                                                                                                                                                                                                                                   |                   |                                     | 14.10                               | 14.30                                                         |
|                                                                                   | 1.3.                                                                 | Pengembalian alat kerja                                                                                                                                                                                                                                                                                                                                    |                   |                                     | 14.30                               | 15.00                                                         |
|                                                                                   | 1.4.                                                                 | Selesai                                                                                                                                                                                                                                                                                                                                                    |                   |                                     |                                     | 15.00                                                         |
| 2. Penggantian Part yang Sudah Dilakukan                                          |                                                                      |                                                                                                                                                                                                                                                                                                                                                            |                   |                                     |                                     |                                                               |
|                                                                                   | NO                                                                   | ITEM                                                                                                                                                                                                                                                                                                                                                       | SPESIFIKASI       | QTY                                 | SATUAN                              | Keterangan tambahan                                           |
|                                                                                   | 1.                                                                   |                                                                                                                                                                                                                                                                                                                                                            |                   |                                     |                                     |                                                               |
|                                                                                   | 2.                                                                   |                                                                                                                                                                                                                                                                                                                                                            |                   |                                     |                                     |                                                               |
|                                                                                   | 3.                                                                   |                                                                                                                                                                                                                                                                                                                                                            |                   |                                     |                                     |                                                               |

| 3. Kesimpulan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  |                                                                                                 |     |        |                                                                                                                                                   |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------------------------------------------|-----|--------|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|----|------|-------------|-----|--------|---------------------|---|--------------------------------------------------|----------|---|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|---|--|--|--|--|--|---|--|--|--|--|--|
| 3.1 Sudah selesai dilakukan maintenance dan unit berfungsi dengan baik                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                  |                                                                                                 |     |        |                                                                                                                                                   |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| 3.2 Gear box hoist indikasi rmulai rembes dalam tahap observasi                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                  |                                                                                                 |     |        |                                                                                                                                                   |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| 4. Action Plan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |                                                                                                 |     |        |                                                                                                                                                   |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| 4.1. Maintenance berkala setiap 45 hari                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |                                                                                                 |     |        |                                                                                                                                                   |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| 4.2. Rekomendasi beberapa Part yang ditemukan emergency Hilang                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  |                                                                                                 |     |        |                                                                                                                                                   |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| 5. Rekomendasi Part                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                  |                                                                                                 |     |        |                                                                                                                                                   |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| <table><tr><th>NO</th><th>ITEM</th><th>SPESIFIKASI</th><th>QTY</th><th>SATUAN</th><th>Keterangan tambahan</th></tr><tr><td>1</td><td>Kepala emergency pendant hanyoung (REK NOV 2025)</td><td>hanyoung</td><td>1</td><td>Pcs</td><td><div></div>Visual Check C.6.1. Kondisi kepala emergency hilang</td></tr><tr><td>2</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td></tr></table> |                                                  |                                                                                                 |     |        |                                                                                                                                                   |                     | NO | ITEM | SPESIFIKASI | QTY | SATUAN | Keterangan tambahan | 1 | Kepala emergency pendant hanyoung (REK NOV 2025) | hanyoung | 1 | Pcs | <div></div> Visual Check C.6.1. Kondisi kepala emergency hilang | 2 |  |  |  |  |  | 3 |  |  |  |  |  |
| NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ITEM                                             | SPESIFIKASI                                                                                     | QTY | SATUAN | Keterangan tambahan                                                                                                                               |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Kepala emergency pendant hanyoung (REK NOV 2025) | hanyoung                                                                                        | 1   | Pcs    | <div></div> Visual Check C.6.1. Kondisi kepala emergency hilang |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                                                                                 |     |        |                                                                                                                                                   |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                  |                                                                                                 |     |        |                                                                                                                                                   |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Dokumentasi Hasil Pekerjaan                      |                                                                                                 |     |        |                                                                                                                                                   | Keterangan tambahan |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| 1. Pengecekan Hoist 0,4 mm OK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  | 2. Pengecekan Gap Brake cross, sudah dilakukan setting ulang 0,4 mm OK                          |     |        |                                                                                                                                                   |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                  | <div></div>  |     |        | Brake kondisi baik dan sudah dilakukan setting ulang                                                                                              |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| 3. Pengacekan Kondisi Roda Cross travel dan Lubrikasi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                  | 4. Pengecekan roda cross non drive Baik                                                         |     |        |                                                                                                                                                   |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  | <div></div> |     |        | Kondisi roda baik                                                                                                                                 |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| 5. lubrikasi load chain dan proses cleaning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                  | 6. Pengecekan Pendant kondisi kepala emergency Hilang                                           |     |        |                                                                                                                                                   |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |
| <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                  | <div></div> |     |        | Visual Check C.6.1. Kondisi kepala emergency hilang                                                                                               |                     |    |      |             |     |        |                     |   |                                                  |          |   |     |                                                                                                                                                   |   |  |  |  |  |  |   |  |  |  |  |  |

|                                   | 7. Pengecekan Chain Guide Hoist OK                                                                                                                                                                                                          | 8. Pengecekan Cover Bottom Block - OK                                                |                                |      |         |        |      |         |                                   |    |     |     |     |      |                                                                      |
|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------|------|---------|--------|------|---------|-----------------------------------|----|-----|-----|-----|------|----------------------------------------------------------------------|
|                                   |                                                                                                                                                            |    |                                |      |         |        |      |         |                                   |    |     |     |     |      |                                                                      |
|                                   | 9. Pengecekan dimensi load chain                                                                                                                                                                                                            |                                                                                      |                                |      |         |        |      |         |                                   |    |     |     |     |      |                                                                      |
|                                   |                                                                                                                                                            |    | dimensi load chain baik 7,1 mm |      |         |        |      |         |                                   |    |     |     |     |      |                                                                      |
|                                   | 9. standart Load Chain                                                                                                                                                                                                                      |                                                                                      |                                |      |         |        |      |         |                                   |    |     |     |     |      |                                                                      |
|                                   | <table><tr><th>Dimension of load chain</th><th>mm</th><th>5x15</th><th>7.1x21</th><th>8x24</th><th>11.2x34</th></tr><tr><td>Minimum link thickness allowed(d)</td><td>mm</td><td>4.7</td><td>6.8</td><td>7.5</td><td>10.9</td></tr></table> |                                                                                      | Dimension of load chain        | mm   | 5x15    | 7.1x21 | 8x24 | 11.2x34 | Minimum link thickness allowed(d) | mm | 4.7 | 6.8 | 7.5 | 10.9 | STD C.9.1.<br>dimensi chain minimal untuk chain 7,1 mm adalah 6,8 mm |
| Dimension of load chain           | mm                                                                                                                                                                                                                                          | 5x15                                                                                 | 7.1x21                         | 8x24 | 11.2x34 |        |      |         |                                   |    |     |     |     |      |                                                                      |
| Minimum link thickness allowed(d) | mm                                                                                                                                                                                                                                          | 4.7                                                                                  | 6.8                            | 7.5  | 10.9    |        |      |         |                                   |    |     |     |     |      |                                                                      |
|                                   | 10. Chain Bucket kondisi baik                                                                                                                                                                                                               | 11. Pengecekan kabel power ada isolasi kemungkinan terkelupas                        |                                |      |         |        |      |         |                                   |    |     |     |     |      |                                                                      |
|                                   |                                                                                                                                                          |  | kondisi chain bucket baik      |      |         |        |      |         |                                   |    |     |     |     |      |                                                                      |

|          |                                                                                   |                                                                                    |             |                |
|----------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------|----------------|
|          | Dokumentasi pengecekan Panel / electrical                                         |                                                                                    |             |                |
|          | 12. Pengecekan dan cleaning panel Hoist OK                                        | 13. Pengecekan dan cleaning panel Cross OK                                         |             |                |
|          |  |  |             | kondisi normal |
|          | Dokumentasi trial                                                                 |                                                                                    |             |                |
|          |  |                                                                                    |             |                |
| <b>D</b> | <b>Keterangan</b>                                                                 |                                                                                    |             |                |
|          | <b>Hasil Pengecekan Motor</b>                                                     |                                                                                    |             |                |
|          | <b>Cek Ampere Hoist</b>                                                           | <b>Cek Resistansi Motor Hoist</b>                                                  |             |                |
|          | R. 2,1 A                                                                          | UV : 10,2 $\Omega$                                                                 |             | OK             |
|          | S. 2,6 A                                                                          | UW: 10,2 $\Omega$                                                                  |             | OK             |
|          | T. 2,7 A                                                                          | VW: 10,3 $\Omega$                                                                  |             | OK             |
|          | <b>Cek Ampere Cross</b>                                                           | <b>Cek Resistansi Motor Cross</b>                                                  |             |                |
|          | R. 1,1 A                                                                          | UV : 44,0 $\Omega$                                                                 |             | OK             |
|          | S. 1,0 A                                                                          | UW: 44,0 $\Omega$                                                                  |             | OK             |
|          | T. 1,0 A                                                                          | VW: 44,0 $\Omega$                                                                  |             | OK             |
|          |                                                                                   |                                                                                    |             |                |
|          |                                                                                   |                                                                                    |             |                |
|          |                                                                                   |                                                                                    |             |                |
|          | <b>Note :</b>                                                                     |                                                                                    |             |                |
|          | Pengecekan dilakukan di sela sela produksi yang agak padat                        |                                                                                    |             |                |
| <b>E</b> | <b>Lampiran</b>                                                                   |                                                                                    |             |                |
|          | E.1. Form maintenance                                                             |                                                                                    |             |                |
|          |                                                                                   |                                                                                    |             |                |
|          |                                                                                   |                                                                                    |             |                |
|          | <b>Mengetahui</b>                                                                 |                                                                                    |             |                |
|          | <b>Teknisi</b>                                                                    | <b>SPV</b>                                                                         | <b>USER</b> |                |
|          |                                                                                   |                                                                                    |             |                |
|          |                                                                                   |                                                                                    |             |                |
|          | RIZA                                                                              |                                                                                    | P. Gembong  |                |



# HELINDO tech Indonesia

Head Office : Jl. Industri I Ragam Jemundo Blok B1/B, Desa Jemundo, Kec. Taman, Kab. Sidoarjo  
 Phone Office : (031) 7870217 Fax : (031) 7887284  
 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

Service report number :

Customer : PT Multi Spunindo Jaya  
 Technician : Hendra, R.1750  
 Problem info : maintenance hoist  
 (.....)

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

Urgent / Monthly / Yearly / Commissioning

Date : 28 / 11 / 2025

| Status Unit                            |                                  |                                 |
|----------------------------------------|----------------------------------|---------------------------------|
| <input checked="" type="checkbox"/> OK | <input type="checkbox"/> WARNING | <input type="checkbox"/> URGENT |

NOTE :

Model : Double Girder / Single Girder / Monorail  
 Serial No. : 1 140098 2  
 SWL : 1 9T 2  
 Area : Line II  
 Location : Produksi  
 Working Condition : kabin

Brand Unit : Samsung  
 Brand Hoist / Type : SMP - S 2000  
 Brand Cross / Type : TELU  
 Brand Long / Type :  
 Control Voltage : 48 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 Fastener 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 Coves                 |   |   |   |   |   |   |   |
|     | 3 Battery               |   |   |   |   |   |   |   |
|     | 4 Switch on/off         |   |   |   |   |   |   |   |
|     | 5 Rubber Bottom         |   |   |   |   |   |   |   |
|     | 6 Legends               |   |   |   |   |   |   |   |
|     | 7 Element Switch        |   |   |   |   |   |   |   |
|     | 8 Receiver/Transmitter  |   |   |   |   |   |   |   |
| 4   | POWER RAIL              |   |   |   |   |   |   |   |
|     | 1 Power Rail            |   |   |   |   |   |   |   |
|     | 2 Bracket               |   |   |   |   |   |   |   |
|     | 3 Current Collector     |   |   |   |   |   |   |   |
|     | 4 Joiner                |   |   |   |   |   |   |   |
|     | 5 Hanger/hold wire      |   |   |   |   |   |   |   |
|     | 6 Feed box              |   |   |   |   |   |   |   |
|     | 7 Towing Long / Guide   |   |   |   |   |   |   |   |

| No. | ITEM                           | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|-----|--------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5   | HOIST                          |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|     | 1 Wire Rope/CHAIN              |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|     | 2 Wire Drum/Reel Chain         |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|     | 3 Rope anchorage               |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|     | 4 Rope Guide Chain             |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|     | 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 Drive 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 SH 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 adjust gap hoist             |
| 2 Lubrikasi gear rack cross    | 7 cleaning unit                |
| 3 di hentikan kapala EMG + ... | 8 cek baut komponen elektrikal |
| 4 cek gap hoist                | 9 cek fungsi limit Z OK        |
| 5 cek gap cross                | 10                             |

Kondisi saat ini : hoist bisa digunakan dengan normal

NOTE: Ampere hoist: CROSS resistansi: CROSS=

|           |           |             |             |                     |
|-----------|-----------|-------------|-------------|---------------------|
| R = 2.4 A | R = 0.9 A | UV = 10.2 Ω | UV = 44.0 Ω | chain 7.1 m         |
| S = 2.6 A | S = 1.0 A | UV = 10.2 Ω | UV = 44.0 Ω | gap hoist 0.6 → 0.4 |
| T = 2.5 A | T = 1.0 A | VW = 10.3 Ω | VW = 44.0 Ω | gap cross 0.4 m     |

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

| No. | Description                       | Part No | QTY |
|-----|-----------------------------------|---------|-----|
| 1   | kapala emergency pendant Hanyoung | 1       | PCS |
| 2   |                                   |         |     |
| 3   |                                   |         |     |
| 4   |                                   |         |     |
| 5   |                                   |         |     |
| 6   |                                   |         |     |

Service Technician

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

WORKING HOURS

(M. Hendra S)

H. Hendra S

Customer