

**PEMERINTAH PROVINSI SUMATERA BARAT
DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG**

Jalan Taman Siswa No.1 Telp (0751) 7051700 Fax (0751) 7051783 Padang

<http://www.sumbarprov.go.id>—email : pdeisb@sumbarprov.go.id



DOKUMEN PENGADAAN

**BERITA ACARA
SERAH TERIMA PEKERJAAN
(Kontrak e-Katalog)**

PEKERJAAN :

**PAKET BELANJA MODAL ALAT LABORATORIUM
BAHAN BANGUNAN KONSTRUKSI**

PENYEDIA JASA:

PT. KHANSA NIAGA PRATAMA

Jl. Melong Asih Komp. Melong Nirwana Residence, No. A-5 RT 007 RW 009 Kel. Cijerah, Kec. Bandung Kulon

SUB KEGIATAN :

PENGAWASAN PENYELENGGARAAN JALAN KEWENANGAN PROVINSI

KEGIATAN :

PENYELENGGARAAN JALAN PROVINSI

PROGRAM :

PENYELENGGARAAN JALAN

SUB UNIT :

UPTD LABORATORIUM BAHAN KONSTRUKSI

TAHUN ANGGARAN 2024

DAFTAR ISI

1. Berita Acara Serah Terima Pekerjaan
2. BA Pemeriksaan Barang dan Dokumentasi
3. Manifest Pengiriman Barang
4. Proses Penerimaan Barang pada e-Katalog
5. Manual Book Alat Automatic Marshall Compactor

BERITA ACARA

SERAH TERIMA PEKERJAAN



PEMERINTAH PROVINSI SUMATERA BARAT
DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG

Jalan Taman Siswa No. 1 Telp. (0751) 7051700 - 7051756 - 7051765 Fax. (0751) 7051783 Padang
<http://www.bmcktr.sumbarprov.go.id> - email : bmcktr@sumbarprov.go.id

Pekerjaan	: Paket Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi
Sub Kegiatan	: Pengawasan Penyelenggaraan Jalan Kewenangan Provinsi
Kegiatan	: Penyelenggaraan Jalan Provinsi
Program	: Penyelenggaraan Jalan
Sub Unit	: UPTD Laboratorium Bahan Konstruksi
SKPD	: Dinas Bina Marga, Cipta Karya dan Tata Ruang Prov. Sumbar
Sumber Dana	: PAD Tahun Anggaran 2024
Lokasi	: Jl. Taman Siswa No. 1 Padang
Nomor Surat Pesanan	: 07/Kontrak-eKalatog/UPTD-LBK/III/2024
Tanggal	: 18 Maret 2024
Nilai Kontrak	: Rp. 386.900.000,-
Nomor Addendum SP	: Add.I/07/Kontrak.e-Katalog/UPTD-LBK/2024
Tanggal	: 3 Mei 2024
Nilai Kontrak	: Rp. 386.900.000,-
Penyedia	: PT. Khansa Niaga Pratama

BERITA ACARA SERAH TERIMA PEKERJAAN
Paket Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi
Nomor: 07/BAST-eKatalog/UPTD-LBK/2024

Pada hari ini tanggal 6 Mei 2024, kami yang bertanda tangan di bawah ini:

Susy Anas

PPK atau Kuasa Pengguna Anggaran (KPA)

Jl. Taman Siswa No. 1 Padang - Kota Padang - Sumatera Barat

selanjutnya disebut sebagai Pejabat Penandatanganan/Pengesahan Serah Terima Barang,
selanjutnya disebut **Pihak Pertama**;

Rizkie Ramadhan Setiawan

Direktur PT. Khansa Niaga Pratama

Jl. Melong Asih Komp. Melong Nirwana Residence No. A-5 RT 007 RW 009 Kel. Cijerah,
Kec. Bandung Kulon

selanjutnya disebut Penyedia, sebagai **Pihak Kedua**

Menyatakan bahwa:

Pihak Kedua telah menyelesaikan pekerjaan: Paket Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi pada bulan Mei 2024 sesuai dengan Surat Pesanan Nomor 07/Kontrak-eKatalog/UPTD-LBK/III/2024 tanggal 18 Maret 2024 dan Addendum 1 (Final) Surat Pesanan Nomor: Add.I/07/Kontrak.e-Katalog/UPTD-LBK/2024 tanggal 3 Mei 2024.

Pihak Pertama telah menerima dengan baik hasil pekerjaan tersebut.

Demikian Berita Acara Serah Terima ini dibuat untuk dipergunakan sebagaimana mestinya.

PIHAK KEDUA,
PT. Khansa Niaga Pratama



Rizkie Ramadhan Setiawan
Direktur

PIHAK PERTAMA,
Pejabat Penandatangan/Pengesahan
PPK/KPA



Susy Anas, ST, MT
NIP. 19750607 200801 2003

DAFTAR KUANTITAS DAN HARGA

Addendum – 1 (Final)

Riwayat	Nama Produk	Harga Ongkir	Harga Satuan	Total Harga	Batas Pengiriman	Total Kuantitas
Kontrak Awal	4826201999-AL2-190508204 LOAD FRAME FOR MARSHALL STABILITY	Rp 0,00	Rp 378.000.000,00	Rp 378.000.000,00	29 August 2024	1
	4826201999-AL2-190846701 BIKONUS	Rp 0,00	Rp 4.450.000,00	Rp 8.900.000,00	29 August 2024	2
Addendum 1	4826201999-AL2-190508204 LOAD FRAME FOR MARSHALL STABILITY	Rp 0,00	Rp 378.000.000,00	Rp 378.000.000,00	06 May 2024	1
	4826201999-AL2-190846701 BIKONUS	Rp 0,00	Rp 4.450.000,00	Rp 8.900.000,00	06 May 2024	2

Padang, 3 Mei 2024

Untuk dan atas nama
UPTD Laboratorium bahan Konstruksi
PPK / KPA

Untuk dan atas nama
PT. KHANSA NIAGA PRA TAMA



Untuk dan atas nama
UPTD Laboratorium bahan Konstruksi
PPK / KPA

SUSY ANAS, ST. MT
NIP. 19750607 200801 2003

RIZKIE RAMADHAN SETIAWAN
Direktur



PT. KHANSA NIAGA PRATAMA

Komp. Melong Nirwana Residence Kav. A5.

Jl. Melong Asih No.66 Bandung Telp: 022 86067632 - Fax : 022 86067632

E-Mail : khanita_pt@yahoo.com

LABORATORY EQUIPMENT-SCIENTIFIC TECHNICAL SUPPLIES & GENERAL CONTRACTOR

No. : 001/SP/KNP/V/2024
Perihal : Permohonan Pemeriksaan dan Serah Terima Hasil Pekerjaan
Paket Pengadaan Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi

Kepada :
Yth.
PPK atau KPA UPTD Laboratorium Bahan Konstruksi
Di
Jl. Taman Siswa No. 1 Padang – Kota Padang Sumatera Barat

Sehubungan dengan Surat Pesanan Nomor : 07/Kontrak-eKatalog/UPTD-LBK/III/2024 Tanggal 18 Maret 2024 perihal pekerjaan Paket Pengadaan Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi dapat disampaikan bahwa proses pengadaan barang telah rampung 100%. Untuk proses selanjutnya, bersama ini kami mohon kepada Bapak/Ibu agar dapat melakukan pemeriksaan pekerjaan bersama sama untuk selanjutnya dilakukan Serah Terima Pekerjaan.

Demikian disampaikan, atas perhatian Bapak/Ibu kami ucapkan Terimakasih

Bandung, 06 Mei 2024
PT. KHANSA NIAGA PRATAMA

Rizkie Ramadhan
Direktur

BERITA ACARA
PEMERIKSAAN BARANG
DAN DOKUMENTASI



PT. KHANSA NIAGA PRATAMA

Komp. Melong Nirwana Residence Kav. A5.
Jl. Melong Asih No.66 Bandung Telp: 022 86067632 - Fax : 022 86067632
E-mail : khanita_pt@yahoo.com

LABORATORY EQUIPMENT-SCIENTIFIC TECHNICAL SUPPLIES & GENERAL CONTRACTOR

SURAT TUGAS & BERITA ACARA PELAKSANAAN PEKERJAAN

027/BAPP/KNP/IV/2024

Pada hari ini dumai, tanggal 3 ^{mei} ~~April~~ 2024 yang bertanda tangan dibawah ini :

Nama : Bhima A.L
Jabatan : teknisi

Nama :
Jabatan :

Selanjutnya disebut PIHAK PERTAMA (Pelaksana Pekerjaan)

Nama : AZMU DEVINUS
Jabatan : PPTK Kesehatan

Lokasi : UPTD Laboratorium Bahan Konstruksi
Dinas Bina Marga, Cipta Karya dan Tata Ruang Prov. Sumatera Barat
Jalan Taman Siswa No. 01 Padang

Selanjutnya disebut PIHAK KEDUA (Penerima Hasil Pekerjaan)

Dengan ini menerangkan, bahwa :

Pada tanggal 3 ~~April~~ 2024, PIHAK PERTAMA atas nama KHANSA NIAGA PRATAMA telah selesai melakukan pekerjaan untuk PIHAK KEDUA berupa :

- a. Instalasi Unit Peralatan *(Detail Terlampir)
- b. Running Unit Peralatan *(Detail Terlampir)
- c. Training Unit Peralatan *(Detail Terlampir)
- d. Service/Maintenance/Upgrade Unit Peralatan *(Detail Terlampir)
- e. Check Up Unit Peralatan *(Detail Terlampir)
- f. Kalibrasi Unit Peralatan (Insite) *(Detail Terlampir)

*Berikan tanda "v" pada kotak yang dikerjakan dan tanda "X" pada kotak yang tidak dikerjakan.

yang telah dikerjakan selama 1 (satu) hari sejak tanggal 3 ~~April~~ ^{mei} 2024 sampai dengan 3 ~~April~~ ^{mei} 2024.

Demikian Surat Tugas & Berita Acara ini dibuat dengan sebenar-benarnya untuk dapat dipergunakan sebagaimana mestinya.

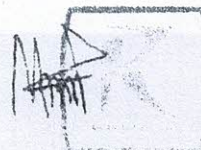
Padang, 3 ~~April~~ ^{mei} 2024

PIHAK PERTAMA
(Pelaksana Pekerjaan)

PEMBERI TUGAS
(KHANSA NIAGA PRATAMA)

PIHAK KEDUA
(Penerima Hasil Pekerjaan)

Bhima A.L



Mohon untuk di cap dan di tanda tangan



PT. KHANSA NIAGA PRATAMA
 Komp. Melong Nirwana Residence Kay. A5
 Jl. Melong Asih No. 66 Bandung Telp. 022 86057632 - Fax 022 86067632
 E-Mail: khsnita_pt@gy.fiber.com

LABORATORY EQUIPMENT SCIENTIFIC TECHNICAL SUPPLIES & GENERAL CONTRACTOR

LAMPIRAN PELAKSANAAN PEKERJAAN
 027/LPP-TAUP/KNP/IV/2024

No	Tipe	Merk	Nama Unit Perakatan	Jenis Pekerjaan (Berikan tanda "✓" pada kotak yang dikerjakan)					Status OK/NG	Keterangan	
				Instalasi	Running	Training	Service/ Maintenance / Upgrade	Check up			Kalibrasi (Insite)
1	-	MATEST	LOAD FRAME FOR MARSHALL STABILITY	✓	✓	✓				OK	- Instalasi + running alat. - Training alat dengan sampel menggunakan cara langsung dan via PC - Pelaporan via pdf
2	-	BRAND INDOTEST	BIGANUS					✓		OK	- 2 set OK - Ceu dimensi OK
3	-	MATEST	AUTOMATIC MARSHALL COMPACTR				✓			OK	- setting rantaai penarik - membersihkan hammer. - unit OK

Status Cek
 OK : Baik
 NG : Tidak Baik

padang, 3 April 2024

PIHAK PERTAMA
 (Pelaksana Pekerjaan)

PIHAK KEDUA
 (Penerima Hasil Pekerjaan)

Mohon urutuk di cap dan di tanda tangian

DAFTAR HADIR

Kegiatan : Paket Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi

Tanggal : 2 - 3 Mei 2024

Agenda : Pelatihan pemakaian Alat Automatic Marshall Stability dan Biconus

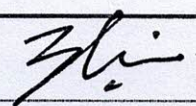
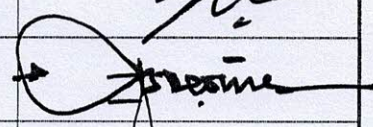
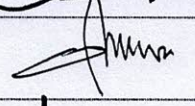

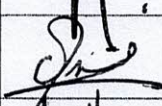
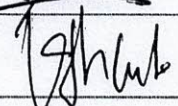
NO	NAMA	JABATAN	TANDA TANGAN
1	Bhima A-L	Instruktur/Teknisi	
2	AZMU DEVINUS	Kasi Pengujian Mutu Konstruksi	
3	Derimat	Kasi	
4	JON EDWAR -	staf	
5	PGNDRIDI	Staf	
6	Utari Wulandari	Staf	
7			
8			
9			
10			
11			
12			
13			
14			

FOTO-FOTO DOKUMENTASI

Paket Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi



Gambar 1: Instalasi dan Pemeriksaan Kelengkapan Alat Marshall Stability



Gambar 2: Pelatihan Penggunaan Alat Marshall Stability



Gambar 3: Load Frame For Marshall Stability



Gambar 4: Biconus Sondir

TO WHOM IT MAY CONCERN

CERTIFICATE OF ORIGIN

WE HEREBY DECLARE THAT ALL THE PRODUCTS SUPPLIED AS LISTED AND WITH REFERENCES TO MODEL AS FOLLOWS:

LOAD FRAME FOR MARSHALL STABILITY

ARE OF ITALIAN AND E.C ORIGIN WHICH HAS BEEN MANUFACTURED IN OUR FACTORY IN TREVIOLO (BERGAMO), ITALY.

SHOULD YOU REQUIRE ANY FURTHER INFORMATION OR CLARIFICATION, PLEASE DO NOT HESITATE TO CONTACT US OR OUR ASIA REGIONAL SALES OFFICE.

THANK YOU FOR YOUR KIND ATTENTION.

MATEST SPA
Sede legale: Viale Mantegna, 111
20862 ARCORE (MB)
Sede operativa: Via delle Industrie, 25
24048 TREVIOLO (BG)
C.F. e P.IVA: 01398470168
MATEST SPA UNIPERSONALE

MATEST S.p.A. Unipersonale

Direzione e Coordinamento
Immobiliare Guera S.r.l.

VAT number IT01698470168

Sede Legale
Registered office

Viale Mantegna 97

Sede Operativa e Amministrativa
Trading address

Via delle Industrie 25

TEL. +390352055011
FAX. +390352055055
Info@matest.com

ACCREDIA

LAT N°214
Signatory of EA, IAF and ILAC
Mutual Recognition Agreement

KARTU GARANSI/WARRANTY CARD

Kartu Garansi Alat : Material Testing Equipment For Civil Work (Peralatan Uji Bahan Konstruksi Sipil)		Code: 048-24
◆ Type/Model	: LOAD FRAME FOR MARSHALL STABILITY	QR CODE/BARCODE 
◆ Serial No.	: B043PN104/BD/0002	

◆ Customer	: UPTD LABORATORIUM BAHAN KONSTRUKSI DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG PROVINSI SUMATERA BARAT
◆ Tanggal Berlaku Garansi	: 26 April 2024
◆ Masa Garansi Berakhir	: 26 April 2025

INDOTEST MULTI LABORATAMA
Komplek Kawasan Industri Cibolerang Kav. 27
Jl. Cibolerang No. 203 - Bandung - 40223
Jawa Barat - Indonesia
Phone : +62 22 6012628, +62 22 86067570,
Fax : +62 22 86067571;
Homepage : www.indotest.com
Email : sales@indotest.com



Company Stamp

KETENTUAN-KETENTUAN GARANSI

1. Masa garansi berlaku mulai sejak "Tanggal Berlaku Garansi" hingga "Masa Garansi Berakhir". Garansi ini berlaku untuk jasa perbaikan dan penggantian suku cadang buatan "CV. Indotest Multi Laboratama" saja. Untuk komponen vendor non-Indotest (misal: motor elektrik, pengatur kecepatan, dll), garansi berlaku selama 1 tahun sejak "Tanggal Berlaku Garansi".
2. Biaya pengiriman spare part/ penugasan teknisi ke site untuk perbaikan alat selama masa berlaku garansi, maupun diluar masa garansi, ditanggung oleh customer/pemilik alat.
3. Perbaikan dan penggantian suku cadang (sesuai poin no. 1) tidak dikenakan biaya, dengan syarat:
 - ▶ Kerusakan disebabkan pemakaian normal atau sesuai dengan buku manual penggunaan / pengoperasian
 - ▶ Kerusakan adalah kesalahan pabrik
 - ▶ Bukan barang habis pakai
4. Garansi tidak berlaku untuk kerusakan seperti:
 - ▶ Kesalahan pemakaian, seperti kesalahan tegangan listrik, kecerobohan user/operator dalam penggunaan, pemakaian yang melebihi kapasitas atau daya kerja standar peralatan, terkena benturan keras atau terkena cairan yang dapat merusak.
 - ▶ Bencana alam, banjir, kebakaran, petir.
 - ▶ Kemasukan serangga, tikus, atau binatang lain.
 - ▶ Mesin pernah diperbaiki, dibuka atau dimodifikasi pihak lain yang tidak sesuai dengan desain serta model standard produk yang telah kami suplai
5. Ketersediaan suku cadang selamanya
6. Ketersediaan layanan purna jual selamanya

SERTIFIKAT KALIBRASI
CALIBRATION CERTIFICATE

Nomor : 206-23.IP/Kal-IML/IV/24
Number

Hal 1 **Dari** 2
Page of

ALAT
Equipment

- | | |
|---|---|
| 1. Nama : LOAD CELL
<i>Name</i> | 2. Kapasitas : 50 kN
<i>Capacity</i> |
| 3. Tipe/Model : S337.34
<i>Type/Model</i> | 4. Nomor Seri : 5337.34.01
<i>Serial Number</i> |
| 5. Merek/Buatan : MATEST
<i>Manufacture</i> | |

PEMILIK
Owner

1. **Nama** : UPTD LABORATORIUM BAHAN KONSTRUKSI
Name DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG
PROVINSI SUMATERA BARAT
2. **Alamat** : JL. Taman Siswa No. 01 Padang
Address

STANDAR
Standard

1. **Nama** : Load Cell, Kap. 2000 kN Merk: MATEST - ITALY, N.S. : C140-07/BA/0004
Name Indicator-Merk: Matest, Model: C138PM100 N.S. : C138PM100/BA/0002
2. **Ketelusuran** : Hasil kalibrasi yang dilaporkan tertelusur ke satuan SI melalui
Traceability Laboratorium Kalibrasi KS-BRIN LK-013-IDN

TANGGAL DITERIMA : 25 April 2024 **TANGGAL KALIBRASI** : 25 April 2024
Date of acceptance Date of Calibration

KONDISI LINGKUNGAN KALIBRASI : Suhu : 23 ± 5 °C RH : 65 ± 10 %
Environment Condition of Calibration

LOKASI KALIBRASI : Laboratorium Kalibrasi Indotest Multi Laboratama
Location of Calibration

METODE KALIBRASI : IK-1 / JIS B7733 - 1992
Calibration Method

HASIL KALIBRASI DAN KETIDAKPASTIAN KALIBRASI (Terlampir)
Result of Calibration and uncertainty of Calibration (Attached)

DITERBITKAN TANGGAL : 26 April 2024
Published Date

Bandung, 26 April 2024
Disetujui Oleh,

INDOTEST
CALIBRATION LABORATORY

H. ASEP SETIAWAN
Direktur

Keterangan :
1. Dilarang memproduksi sertifikat ini tanpa izin dari INDOTEST kecuali secara keseluruhan
2. Hasil kalibrasi ini tidak untuk diumumkan dan hanya berlaku untuk alat yang bersangkutan
3. Laboratorium ini diakreditasi oleh Komite Akreditasi Nasional (KAN) No. LK-303-IDN ISO 17025

LAPORAN KALIBRASI

CALIBRATION REPORT

Nomor : 206-23.IP/Kal-IML/IV/24
Number

Hal 2 **Dari** 2
Page of

Unit Under Test (UUT) : LOAD CELL

Capacity : 50 kN

Serial Number : S337.34.01

Hasil Kalibrasi :

Result Of Calibration

UUT Indication (kN)	Standard Indication (kN)	Correction (kN)	Repeatability Error (%)	Error (%)	Uncertainty U95% k=2 (%)
5	5,02	0,02	0,00	0,48	0,92
10	10,00	0,00	0,06	0,02	0,52
15	14,98	-0,02	0,01	0,10	0,42
20	19,96	-0,04	0,02	0,18	0,37
25	25,05	0,05	0,01	0,18	0,35
30	30,02	0,02	0,01	0,08	0,34
35	35,01	0,01	0,01	0,02	0,33
40	39,99	-0,01	0,01	0,02	0,32
45	44,97	-0,03	0,00	0,06	0,31
50	49,95	-0,05	0,01	0,11	0,31

Kesimpulan :

Ketidakpastian pengukuran relatif (U) = ± 0,92 % Terhadap Pembacaan penuh alat, untuk *Student t-distribution factor* k = 2.00 dan tingkat kepercayaan CL = 95%

Persamaan Polinom derajat 3 dibawah ini dapat digunakan untuk menghitung interpolasi :

$$Y = -6E-06X^3 + 0,0005X^2 + 0,99X + 0,0581$$

Keterangan :

Y = nilai gaya yang ditunjukkan standar

X = Penunjukan Alat

Diperiksa Oleh,

INDOTEST
CALIBRATION LABORATORY

YUDI NUGRAHA

Manajer Lab. Kalibrasi

Keterangan :

1. Dilarang memproduksi sertifikat ini tanpa izin dari INDOTEST kecuali secara keseluruhan
2. Hasil kalibrasi ini tidak untuk diumumkan dan hanya berlaku untuk alat yang bersangkutan
3. Laboratorium ini diakreditasi oleh Komite Akreditasi Nasional (KAN) No. LK-303-01/2017

SERTIFIKAT KALIBRASI
CALIBRATION CERTIFICATE

Nomor : 207-23.IP/Kal-IML/IV/24 **Hal** 1 **Dari** 2
Number *Page* *Of*

ALAT
Equipment

- | | |
|---|---|
| 1. Nama : Linear Transducer
<i>Name</i> | 2. Kapasitas : 50 mm
<i>Capacity</i> |
| 3. Tipe/Model : S336-14
<i>Type/Model</i> | 4. Nomor Seri : S336-14.01
<i>Serial Number</i> |
| 5. Merek/Buatan : Matest
<i>Manufacture</i> | |

PEMILIK

Owner

1. **Nama** : UPTD LABORATORIUM BAHAN KONSTRUKSI
Name DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG
PROVINSI SUMATERA BARAT
2. **Alamat** : JL. Taman Siswa No. 01 Padang
Address

STANDAR
Standard

1. **Nama** : Calibration Tester SN: 0004410903 Model: UDT-2 Code/No:170-102-12
Name Merk: Mitutoyo Standard
2. **Ketelusuran** : Hasil kalibrasi yang dilaporkan tertelusur ke satuan SI melalui
Traceability LK-001-IDN Laboratorium Kalibrasi BBLM

TANGGAL DITERIMA : 25 April 2024 **TANGGAL KALIBRASI** : 25 April 2024
Date of acceptance *Date of Calibration*

KONDISI LINGKUNGAN KALIBRASI : Suhu : $22 \pm 0,5$ °C RH : 50 ± 2 %
Environment Condition of Calibration

LOKASI KALIBRASI : Laboratorium Kalibrasi Indotest Multi Laboratama
Location of Calibration

METODE KALIBRASI : IK - 5
Calibration Method

HASIL KALIBRASI DAN KETIDAKPASTIAN KALIBRASI (Terlampir)
Result of Calibration and uncertainty of Calibration (Attached)

DITERBITKAN TANGGAL : 26 April 2024
Published Date

Bandung, 26 April 2024
Disetujui Oleh,

INDOTEST
CALIBRATION LABORATORY

H. ASEP SETIAWAN
Direktur

- Keterangan :
1. Dilarang memproduksi sertifikat ini tanpa izin dari INDOTEST kecuali secara keseluruhan
 2. Hasil kalibrasi ini tidak untuk diumumkan dan hanya berlaku untuk alat yang bersangkutan
 3. Laboratorium ini diakreditasi oleh Komite Akreditasi Nasional (KAN) No. LK-303-IDN ISO 17025

LAPORAN KALIBRASI

CALIBRATION REPORT

Nomor : 207-23.IP/Kal-IML/IV/24 **Hal** 2 **Dari** 2
Page of
Number
Unit Under Test (UUT) : Linear Transducer **Serial Number** : S336-14.01
Merk / Buatan : Matest **Kapasitas** : 50 mm
Type / Model : S336-14

Hasil Kalibrasi
Calibration Result

PEMBACAAN UUT (mm)	KOREKSI		U95% = ± μm (k=2,00)
	Naik (mm)	Turun (mm)	
5	-0,003	-0,002	8,5
10	-0,002	-0,002	
15	-0,002	-0,003	
20	-0,001	-0,001	
25	-0,002	-0,002	

)* Ketidakpastian yang dilaporkan adalah ketidakpastian bentangan pada tingkat kepercayaan 95 % dengan faktor cakupan K=2

INDOTEST
CALIBRATION LABORATORY
Diperiksa Oleh

INDOTEST
CALIBRATION LABORATORY

YUDI NUGRAHA
Manajer Lab. Kalibrasi

MANIFEST PENGIRIMAN BARANG

180 MXP 2533 8876

180/2533 8876

Shipper's Name and Address

Shipper's Account Number

Not negotiable

K O R E A N

Air Waybill

A I R L I N E S

MATEST SPA

Issued by

KOREAN AIR LINES CO., LTD.

VIA DELLE INDUSTRIE, 25
24048 TREVIOLO BG IT

C.P.O.BOX 864, 118, 2-GA,
NAMDAEMUN-RO, CHUNG-GU, SEOUL, K

Consignee's Name and Address

Consignee's Account Number

Copies 1, 2 and 3 of this Air Waybill are originals and have the same validity.

KHANSA NIAGA PRATAMA, PT .KOMPLEK MELONG
NIRWANA RESIDENCE KAV. A5 JL. MELONG ASIH NO.
66 BANDUNG RT 007 / RW 009 KEL. CIJERAH KEC.
BANDUNG KULON KOTA BANDUNG, JAWA BARAT, 40213

It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT ON THE REVERSE HEREOF. ALL GOODS MAY BE CARRIED BY ANY OTHER MEANS INCLUDING ROAD OR ANY OTHER CARRIER UNLESS SPECIFIC CONTRARY INSTRUCTIONS ARE GIVEN HEREOF BY THE SHIPPER, AND SHIPPER AGREES THAT THE SHIPMENT MAY BE CARRIED VIA INTERMEDIATE STOPPING PLACES WHICH THE CARRIER DEEMS APPROPRIATE. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIER'S LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.

Issuing Carrier's Agent Name and City
UBV Ocean & Air S.r.l.

Le merci qui descritte sono accettate in apparante buono stato e condizione (eccezione fatta per i casi in cui è dichiarato altrimenti) per il trasporto in conformità alle CONDIZIONI DI CONTRATTO DESCRITTE SUL RETRO. TUTTE LE MERCI POSSONO ESSERE TRASPORTATE CON ALTRI MEZZI INCLUSO TRASPORTO DI SUPERFICIE O OGNI ALTRO VETTORE. A MENO CHE IL MITTENTE FORNISCA SPECIFICHE ISTRUZIONI CONTRARIE, E IL MITTENTE ACCETTA CHE LA SPEDIZIONE PUO ESSERE TRASPORTATA ATTRAVERSO QUEGLI SICLI INTERMEDI CHE IL VETTORE CONSIDERI OPPORTUNI. SI RICHAMA L'ATTENZIONE DEL MITTENTE SULL'AVVISO CONCERNENTE LA LIMITAZIONE DI RESPONSABILITA DEL VETTORE. Il mittente può aumentare il limite di responsabilità del Vettore dichiarando un valore più elevato per il trasporto e pagando, ove richiesto, una tariffa addizionale.

VIA ZARA 5
20096 PIOLTELLO - MI

VIA Accounting Information

P. I.

CCIAA

Agent's IATA Code
38.4.7616 001.5

Account No.

NON IMP.IVA ART.9

REF.

Airport of Departure (Addr of First Carrier) and Requested Routing

VAT Code

MXP MALPENSA ITALY AIRPORT

01696470168

to By First Carrier Routing for Destination to by to by

Currency CHGS Code WT/WAL PPD COLL Other PPD COLL Declared Value for Carriage Declared Value for Customs

JKT KOREAN AIR LINES CO.L

EUR

X

X

X

N.V.D.

N.C.V.

Airport of Destination

Flight/Date

For Carrier Use only

Flight/Date

Amount of Insurance

N.V.D.

INSURANCE - If Carrier offers insurance, and such insurance is requested in accordance with the conditions on reverse hereof, indicate amount to be insured in figures in box marked "amount of insurance".
ASSICURAZIONE - Qualora il Vettore offre una assicurazione e tale assicurazione sia richiesta in base alle condizioni indicate a tergo, indicare l'importo da assicurare in cifre nella casella "importo assicurato".

JAKARTA ID 0627/23.04

Handling information status x

MARKS 1-2

- NOT STACKABLE -

SHIPMENT SECURED

SCI

X

No. of Pieces RCP	Gross Weight	Kg lb	Rate Class Commodity	Chargeable Weight	Rate Charge	Total	Nature and Quantity of Goods (Incl. Dimensions or Volume)
2	374,00K			545,50	3,34	1821,97	MATERIAL TESTING EQUIPMENT FOR LABORATORY
SPX-C/ENAC IT/RA/00118-04 'MERCE SICURA'							
MAGAZZINO TRATTAMENTO MERCI :							
PIOLTELLO (MI) VIA ZARA 5,							
20090 PIOLTELLO MILANO							

2	374,00					1821,97	VOL.: CM	3,264
Prepaid	Weight Charge	Collect	I.A.T.	/C	6,55	RSC	/C	81,90
1821,97	Valuation Charge		AWB FEE	/C	2,50	FSC/C		600,60
	Tax							

Total Other Charges Due Agent

Total Other Charges Due Carrier

691,55

Shipper certifies that the particulars on the face hereof are correct and that insofar as any part of the consignment contains dangerous goods, such part is properly described by name and is in proper condition for carriage by air accordind to the applicable Dangerous Goods regulation.

Il mittente dichiara che le indicazioni contenute su fronte della LTA sono esatte, e che qualora una parte della spedizione contenga merci pericolose, tale parte è debitamente indicata ed è nelle condizioni richieste ai fini del trasporto per via aerea secondo le norme sulle Merci Pericolose.

UBV Ocean & Air S.r.l.

POS.01/ 24 /102592

Signature of Shipper or his Agent

Total Prepaid

Total Collect

2513,52

Currency Conversion Rates

C.C. Charges in Dest. Currency

AS AGENT OF CARRIER : KOREAN AIR LINES CO.LTD

17 APR 2024 PIOLTELLO

MRCNICOLET

Executed on (Date) at (Place)

Signature of Issuing Carrier or its Agent

For Carriers Use only at Destination

Charges at Destination

Total Collect Charges

180/2533 8876

I.V.A. NON IMPONIBILE - ART. 9 PRIMO COMMA D.P.R. 633/72 PRO QUOTA

NOTICE CONCERNING CARRIERS' LIMITATION OF LIABILITY

If the carriage involves an ultimate destination or stop in a country other than the country of departure, the Montreal Convention or the Warsaw Convention may be applicable to the liability of the Carrier in respect of loss of, damage or delay to cargo. Carrier's limitation of liability in accordance with those Conventions shall be as set forth in subparagraph 4 unless a higher value is declared.

CONDITIONS OF CONTRACT

1. In this contract and the Notices appearing hereon:

CARRIER includes the air carrier issuing this air waybill and air carries that carry or undertake to carry the cargo or perform any other services related to such carriage.

SPECIAL DRAWING RIGHT(SDR) is a Special Drawing Right as defined by the International Monetary Fund.

WARSAW CONVENTION means whichever of the following instruments is applicable to the contract of carriage:

The Convention for the Unification of Certain Rules Relating to International Carriage by Air, signed at Warsaw, 12 October 1929.

That Convention as amended at The Hague on 28 September 1955.

That Convention as amended at The Hague 1955 and by Montreal Protocol No. 1, 2, or 4(1975) as the case may be.

MONTREAL CONVENTION means the Convention for the Unification of Certain Rules for International Carriage by Air, done at Montreal on 28 May 1999.

2./2.1 Carriage is subject to the rules relating to liability established by the Warsaw Convention or the Montreal Convention unless such carriage is not "international carriage" as defined by the applicable Conventions.

2.2 To the extent not in conflict with the foregoing, carriage and other related services performed by each Carrier are subject to:

2.2.1 applicable laws and government regulations,

2.2.2 provisions contained in the air waybill. Carrier's conditions of carriage and related rules, regulations, and timetables (but not the times of departure and arrival stated therein) and applicable tariffs of such Carrier, which are made part hereof, and which may be inspected at any airports or other cargo sales offices from which it operates regular services. When carriage is to/from the USA, the shipper and the consignee are entitled, upon request, to receive a free copy of the Carrier's conditions of carriage. The Carrier's conditions of carriage include, but are not limited to:

2.2.2.1 limits on the Carrier's liability for loss, damage or delay of goods, including fragile or perishable goods;

2.2.2.2 claims restrictions, including time periods within which shippers or consignees must file a claim or bring an action against the Carrier for its acts or omissions, or those of its agents;

2.2.2.3 rights, if any, of the Carrier to change the terms of the contract;

2.2.2.4 rules about Carrier's right to refuse to carry;

2.2.2.5 rights of the Carrier and limitations concerning delay or failure to perform service, including schedule changes, substitution of alternate Carrier or aircraft and rerouting.

3. The agreed stopping places(which may be altered by Carrier in case of necessity) are those places, except the place of departure and place of destination, set forth on the face hereof or shown in Carrier's timetables as scheduled stopping places for the route. Carriage to be performed hereunder by several successive Carriers is regarded as a single operation.

4. For carriage to which the Montreal Convention does not apply, Carrier's liability limitation for cargo lost, damaged or delayed shall be 22 SDRs per kilogram unless a greater per kilogram monetary limit is provided in any applicable Convention or in Carrier's tariffs or general conditions of carriage.

5/5.1 Except when the Carrier has extended credit to the consignee without the written consent of

the shipper, the shipper guarantees payment of all charges for the carriage due in accordance with Carrier's tariff, conditions of carriage and related regulations, applicable laws (including national laws implementing the Warsaw Convention and the Montreal Convention), government regulations, orders and

5.2 When no part of the consignment is delivered, a claim with respect to such consignment will be considered even though transportation charges thereon are unpaid.

6./6.1 For cargo accepted for carriage, the Warsaw Convention and the Montreal Convention permit shipper to increase the limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required

6.2 In carriage to which neither the Warsaw Convention nor the Montreal Convention applies Carrier shall, in accordance with the procedures set forth in its general conditions of carriage and applicable tariffs, permit shipper to increase the limitation of liability by declaring a higher value for carriage and paying a supplemental charge if so required.

7./7.1 In cases of loss of, damage or delay to part of the cargo, the weight to be taken into account in determining Carrier's limit of liability shall be only the weight of the package or packages concerned.

7.2 Notwithstanding any other provisions, for "foreign air transportation" as defined by the U.S. Transportation Code.

7.2.1 in the case of loss of, damage or delay to a shipment, the weight to be used in determining Carrier's limit of liability shall be the weight which is used to determine the charge for carriage of such shipment; and

7.2.2 in the case of loss of, damage or delay to a part of a shipment, the shipment weight in 7.2.1 shall be prorated to the packages covered by the same air waybill whose value is affected by the loss, damage or delay. The weight applicable in the case of loss or damage to one or more articles in a package shall be the weight of the entire package.

8. Any exclusion or limitation of liability applicable to Carrier shall apply to Carrier's Agents, employees, and representatives and to any person whose aircraft or equipment is used by Carrier for carriage and such person's agents, employees and representatives.

9. Carrier undertakes to complete the carriage with reasonable dispatch. Where permitted by applicable laws, tariffs and government regulations, Carrier may use alternative Carriers, aircraft or modes of transport without notice but with due regard to the interests of the shipper. Carrier is authorized by the shipper to select the routing and all intermediate stopping places that it deems appropriate or to change or deviate from the routing shown on the

10. Receipt by the person entitled to delivery of the cargo without complaint shall be prima facie evidence that the cargo has been delivered in good condition and in accordance with the contract of carriage.

10.1 in the case of loss of, damage or delay to cargo a written complaint must be made to Carrier by the person entitled to delivery. Such complaint must be made:

10.1.1 in the case of damage to the cargo, immediately after discovery of the damages and at the latest within 14 days from the date of receipt of the cargo;

10.1.2 in the case of delay, within 21 days from the date on which the cargo was placed at the disposal of the person entitled to delivery.

10.1.3 in the case of non-delivery of the cargo within 120 days from the date of issue of the air waybill, or if an air waybill has not been issued, within 120 days from the date of receipt of the cargo for transportation by the Carrier.

10.2 Such complaint may be made to the Carrier whose air waybill was used, or the first Carrier or to the last Carrier or to the Carrier, which performed the carriage during which the loss, damage or delay took place.

10.3 Unless a written complaint is made within the time limits specified in 10.1 no action may be brought against Carrier.

10.4 Any rights to damages against Carrier shall be extinguished unless an action is brought within two years from the date of arrival at the destination, or from the date on which the aircraft ought to have arrived or from the date on which the carriage stopped.

11. Shipper shall comply with all applicable laws and government regulations of any country to or from which the cargo may be carried including those relating to the packing, carriage or delivery of the cargo, and shall furnish such information and attach such documents to the air waybill as may be necessary to comply with such laws and regulations. Carrier is not liable to shipper and shipper shall indemnify Carrier for loss or expense due to shipper's failure to comply with this provision.

12. No agent, employee or representative of Carrier has authority to alter, modify or waive any provisions of this contract



INDAH LOGISTIK & CARGO

www.indahonline.com
Hotline : 021-80627000
Mobile : 08118944456



B D O 1 C S 2 0 8 7 2 7 3 3

Asal BANDUNG	Tujuan Coveran PADANG	Jml. Barang 2	Berat (Kg) 225,00	Berat Volume	Harga Satuan Rp. 7,676
Penerima MR. AZMU UPTD LABORATORIUM BAHAN KONSTRUKSI DINAS BINA MARGA CIPTA KARYA DAN TATA RUANG PROV SUMBAR JL TAMAN SISWA NO 1 PADANG KANTOR PU PALING BELAKANG SEBELAH HOTEL IBIS			Tujuan Kecamatan PADANG	Cara Pembayaran CASH	Jenis Barang al tlab
Asal Pengirim ANSANIAGA PRATAMA	Tanggal Apr 25, 2024 15:53 PM			Lampiran Tidak Ada	
Asal Pengirim 0067632	Email Pengirim	Jenis Kiriman PAKET	Via DARAT	Kiriman Via Indah Logistic Cargo	
Tanda Tangan Pengirim	Tanda Tangan Petugas	Total Harga			Rp. 6,141
		Total Ongkos Kirim			Rp. 1,381,725
		Diskon			20%
		Diskon Nominal			Rp. 0
		PPn			Rp. 0
		Biaya Surat			Rp. 0
		By. Packing + By. Asuransi			Rp. 0 + Rp. 0

AGENOTONOMMAHMUDBDO

Nama Penerima :

ANSANIAGA PRATAMA

Nama Penerima



PT. KHANSA NIAGA PRATAMA
 Komp. Melong Nirwana Residence Kav. A5
 Jl. Melong Asih No.66 Bandung
 Telp. 022 86067632 - Fax 022 86067632
 E-Mail: khsnpta@yahoo.com

LABORATORY EQUIPMENT-SCIENTIFIC TECHNICAL SUPPLIES & GENERAL CONTRACTOR

SURAT JALAN

PT. KHANSA NIAGA PRATAMA

Office & Factory : Komp. Melong Nirwana Residence Kav. A5
 : Jl. Melong Asih No.66 Bandung
 Phone : +62 022 86067632
 Fax : 022 86067632
 Email : khsnpta@yahoo.com

Nama Proyek : SUMATERA BARAT
 Notifikasi Kepada :
 Penerima : UPTD LABORATORIUM BAHAN KONSTRUKSI
 DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG
 PROVINSI SUMATERA BARAT
 JALAN TAMAN SISWA NO. 01 PADANG

Tanggal Pengiriman : 25 April 2024
 No. Customer Order : 048 CO(MKT)-KNP/IV/2024
 No. Surat Jalan : 53 002 (MKT)-KNP/IV/2024

UP : MR. AZMU
 Telp./ HP : 0813-6337-8391

No	Nama Barang	Spesifikasi	Qty	Garansi	Manual Book	No Peti
1	<p>LOAD FRAME FOR MARSHALL STABILITY STANDARDS: EN 12697-34, 12697-23, 12697-12 ASTM D6927, D5581, D1559 AASHTO T245 BS 598.107 NF P98-251-2 Measures and displays at the same time the stability in kN and the flow in mm with peak hold features, with the possibility to transfer them to a PC and a printer through a RS232 port. Supplied complete with Stability mould. Power supply: 230V 1ph 50Hz 900W Dimensions: 650x400x1100 mm Weight: 120 kg approx. ACCESSORIES SOFTWARE UTM2 (Universal Testing Machine 2) Licence for MARSHALL test Standards: EN 12697-34 ASTM D6927, D5581, D1559 BS 598:107 NF P98-251-2 Data processing program for "X-Y STABILITY/FLOW" General description and technical details: see UTM2 UTM2 SOFTWARE Software developed by Matest allowing operators the management and a "User friendly" control of Matest's digital testing machines. Software available in different languages (Italian, English, French, Spanish, German, Polish, Czech, Slovak, Turkish). The optimal solution of laboratories for its characteristics of versatility with a wide range of customizations, for testing and research. The ideal Software for the management of an extensive production. It contains preset profile tests according to the specifications of the EN Standards and the most common International Standards. Flexibility, operating speed, precision and automatic storage are the fundamental characteristics of the Software conceived to facilitate the operator with few computer skills, for the management of the tests and the testing machines too. By connecting the PC to the testing machine it is possible to perform the most complex tests just by pressing the start button. UTM2 requires a low expertise operators without any specific experience to use the software successfully (with low cost for the company). It facilitates the printing of certificates suggesting a preset layout but changeable and customizable by the user with its own logo or others. The software is developed on Windows platform and can be installed on old and new operative systems, from Windows XP onwards General features of the UTM2 Automatic identification of the appliance connected. Easy setting of the sequence of operations concerning the test to be made settable by the operator. The realization of a personalized testing profile savable and reusable allowing to operate following his own needs setting data and cycle test, the analogical measuring channels and the speed charts. Memorization of the test in the database with the possibility to process it again. Remote and interactive control of the machine. Visualization of the instant loads, instant definition of the load/deformation/stroke graph, remote control of the main functions of the machine. It can also visualize the emergencies, the alarms and the eventual errors, it calculates and saves all the parameters of the test made with the possibility to process again, and to manage the test files. The data test can be commented by means of test titles to be reported on the certificate or on the graph desired. The user can select the calculation algorithms and, using them, the SOFTWARE will process all the results required by the Standards. The colors and the graph scales of the activated windows can be freely selected by the user as well as zooming on the main interested graphic points. The test certificate can be personalized with the following variables: name of the company, kind of test, date, kind of graph and number of pages. Possibility to visualize into one graph and register into the archive up to no. 5 test contemporaneously, in order to dispose of a complete and global information about the tests performed for the same production batch Technical specifications HARDWARE - Processor: 312 MHz upgradable till 806 MHz - Display LCD, QVGA (320x240 pixels) Full-color Touch-screen - Cross Keyboard. It can completely replace the touch-screen function (for an easy use with gloves, for example) Hardware - Connectivity - 1 x SD card - 2 x USB hosts available for: mouse, keyboard, pen-drive, printer, USB Hub (to expand the number of ports), other peripherals from PC Hardware - I/O</p>		1 Set			1 of 2
			1 Pc			

with load cells);
 Sampling frequency: up to 200 Hz (for all the 8 channels)
 Number of bits: up to 24
 - 8 digital inputs
 - 8 digital outputs
 Motor Ignition, Valves activation
 - Expansion Connector
 Hardware - Control operation
 - 2 x stepper motor controllers
 1 x standard controller, 1 x optional controller
 - Brushless or stepper motor, through Expansion board
 Hardware - Storage
 - Internal flash memory, dedicated to the software and to the configuration of profiles, machine, channels (including calibrations), etc
 - Unlimited memory using external memory devices SD - Card, Pen-Drive
 Hardware - Various
 - On board thermic graphic printer (Accessory: C127N)
 - Clock Calendar, buzzer alarm
 Software
 - Operating system: "Windows Embedded CE 6.0 R3"
 - User-friendly Interface
 - Easy updating of software and operating system
 - International setting configuration
 Multilanguage interface
 Date/time/numbers formatting system
 Measurement systems (S.I.; US System)
 - Software modularity
 Reference standards and tests compiled through easy to install software modules
 - Power calculation
 Superior calculation capacity
 Graphic representation of the test data
 Independent use from the PC
 Software - Languages
 - Italian, English, French, German, Spanish, Russian, Polish, Greek, Portuguese, Dutch, Romanian, Czech. Additional languages on request
 Software - Licenses
 - Every machine has an unique specific serial number
 - Compliance to specific standards through dedicated license files
 Software - Record and report
 - Test records: Data, Results, Chart
 - Printing:
 Through on board printer (Accessory C127N)
 Through PCL printer connected to USB
 Software - "Maintenance"
 - Available updates: Operating System, Applications, Licenses (backup and restore), Configuration (backup and restore), Software log
 - New "UTM": machine control through Ethernet (intranet, Internet)
 - Internet connection for remote assistance

2



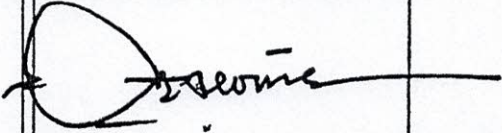
BIKONUS

2

Pc

1 of 2

NOTE :

Internal Check	Delivery Agent	Consignee
		



PT. KHANSA NIAGA PRATAMA

Komplek Kawasan Industri Cikolewang No. 203 Kav. 27 - Bandung - Jawa Barat - Indonesia
telp: 022 6012628, 022 6067570
faks: 022 6067571
www.indotext.com
sales@indotext.com

Office & Factory
Phone
Fax
Homepage
Email

Komplek Kawasan Industri Cikolewang No. 203 Kav. 27 - Bandung - Jawa Barat - Indonesia
telp: 022 6012628, 022 6067570
faks: 022 6067571
www.indotext.com
sales@indotext.com

Place of Loading : BANDUNG
Place of Delivery : SUMATERA BARAT
Delivery Agent : INDAH CARGO
Consignee : UPTD LABORATORIUM BAHAN KONSTRUKSI
DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG
PROVINSI SUMATERA BARAT
JALAN TAMAN SISWA NO. 01 PADANG
Attn : MR. AZMU
Telp./Mobile : 0813-6337-8391

DIMENSI PETI

Tanggal Pengiriman : 25 April 2024
No. Customer Order : 048 CO(MKT)-KNP/IV/2024

Nomer	Rincian Peti	Berat Total (KG)
1 of 2	Consist of : Case No. : 1 of 2 Weight : 167,0 KG Dimension : 81,0 x 66,0 x 150,0 CM	167,00
2 of 2	Consist of : Case No. : 2 of 2 Weight : 48,0 KG Dimension : 76,5 x 56,0 x 66,5 CM	48,00

Internal Check	Delivery Agent	Consignee
	<i>[Signature]</i> Blume A-L	<i>[Signature]</i>

**PROSES PENERIMAAN BARANG
PADA E-KATALOG**

[Kembali](#)

Detail Pengiriman Paket AL2-P2403-8827077

No. Dokumen (LKPP)	8827077244
No. Dokumen	SJ_002MKT_KNP_IV_2024
Tanggal Dokumen	25 April 2024
Deskripsi	
ID Paket	AL2-P2403-8827077
Nama Paket	Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi
Lampiran	Unduh Lampiran

after Produk Pengiriman



https://e-katalogikpp.go.id/v2/id/purchasing/paket/8827077/riwayat-pengiriman/3849415

catalogue
Belanja Cepat Cara Tepat

Etalase Produk



Beranda

Pengumuman

Pra Katalog

Produk

Kompetisi

Paket

Data Master

Profil

Log Aktivitas

Berita

Money

Unduh

Tanya Jawab

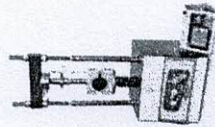
Pelanggaran

Syarat dan Ketentuan

Hubungi Kami

Daftar Produk Pengiriman

Nama Produk	Catatan Pemesanan	Unit Pengukuran	Jumlah Pesanan	Kuantitas Pengiriman	Catatan Pengiriman
-------------	-------------------	-----------------	----------------	----------------------	--------------------



4826201999-AL2-190508204

LOAD FRAME FOR MARSHALL STABILITY

Alat lengkap termasuk PPN, PPH, Garansi 1 Tahun, Packing, Biaya Pengiriman, Instalasi, Pelatihan 2 hari

set

1

1



4826201999-AL2-190846701

BIKONUS

Lengkap

pc

2

2

Riwayat Pengiriman

Oleh Sistem
07, May 2024

Paket telah dikirim

Kembali Selesaikan Proses Pengiriman dan Penerimaan

Pengiriman Penerimaan

Cetak Riwayat Pengiriman

Riwayat Pengiriman Paket AL2-P2403-8827077

Total Produk 2

Jumlah Produk yang sudah lengkap diterima (berdasarkan penyelesaian penerimaan produk) 2

No. Dokumen (LKPP)	No. Dokumen	Tanggal Dokumen	Catatan	Status
8827077244	SJ_002MKT_KNP_IV_2024	25 April 2024		Paket telah sampai Aksi

No. Adendum Kontrak Add.I/07/Kontrak.e-Katalog/UPTD-LBK/2024

Tanggal Adendum Kontrak 03-05-2024

Catatan Addendum I Surat Pesanan Paket Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi terhadap waktu pelaksanaan Surat Pesanan

File Adendum Kontrak Kontrak Adendum 2024.pdf

Nama Produk	Harga Ongkir	Harga Satuan	Tanggal Pengiriman	Total Kuantitas	Kuantitas Sudah Dikirim	Kuantitas Belum Dikirim	Harga Total
LOAD FRAME FOR MARSHALL STABILITY	Rp 0,00	Rp 378.000.000,00	06 May 2024	1	1	0	Rp 378.000.000,00
	Rp 0,00	Rp 378.000.000,00	06 May 2024	1	1	0	Rp 378.000.000,00
BIKONUS	Rp 0,00	Rp 4.450.000,00	06 May 2024	2	2	0	Rp 3.900.000,00
	Rp 0,00	Rp 4.450.000,00	06 May 2024	2	2	0	Rp 3.900.000,00

Dokumen Tambahan

File	Deskripsi / Alasan	Ditambahkan Pada	Aksi
	No data found		

Informasi Riwayat Pengiriman

ID Paket : AL2-P2403-8827077

Nama Paket : Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi

Total Produk	2
Jumlah Produk yang sudah lengkap diterima (berdasarkan penyelesaian penerimaan produk)	0

No Dokumen (LKPP)	No Dokumen	Tanggal Dokumen	Catatan	Status
8827077244	SJ_002MKT_KNP_IV_2024	25 April 2024		Paket telah dikirim

Beranda > Daftar Paket > Detail Paket > Riwayat Pengiriman & Penerimaan

[Kembali](#) [Selesaikan Proses Pengiriman dan Penerimaan](#)

Pengiriman & Penerimaan

[Cetak Riwayat Penerimaan](#) [+ Tambah Penerimaan](#)

Riwayat Penerimaan Paket AL2-P2403-8827077

Total Produk 2

Jumlah Produk yang sudah lengkap diterima (berdasarkan penyelesaian penerimaan produk)

No. Dokumen (LKPP)	No. Dokumen	Tanggal Dokumen	Tanggal Penerimaan	Catatan
8827077244	07/Pemeriksaan.e-Katalog/UPTD-LBK/2024	03 May 2024	06 May 2024	Barang telah sampai alamat, kemudian telah dipasang instalasi alat, diuji fungsi alat dan diperiksa kelengkapannya dan diadakan pelatihannya

[Aksi](#)



Berhasil menyelesaikan proses pengiriman dan penerimaan

Pengiriman Penerimaan

Cetak Riwayat Penerimaan

Riwayat Penerimaan Paket AL2-P2403-8827077

Total Produk

2

Jumlah Produk yang sudah lengkap diterima
(berdasarkan penyelesaian penerimaan produk)

2

No. Dokumen
(LKPP)

No. Dokumen

Tanggal
Dokumen

Tanggal
Penerimaan

Catatan

8827077244

07/Pemeriksaan.e-Katalog/UPTD-
LBK/2024

03 May 2024

06 May 2024

Barang telah sampai alamat, kemudian telah dipasang instalasi alat, diuji fungsi alat dan diperiksa kelengkapannya dan diadakan pelatihannya

Aksi

Daftar Paket

Tampilkan BPMN

Nomor	Paket	Komoditas	Satuan Kerja	Instansi	Nama Penyedia	Tanggal Buat	Posisi	Jenis Paket	Negosiasi	Total Produk	Total Harga	Status	Lacak Status
1.	AL2-P2403-8827077 Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi	Alat Laboratorium	DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG	Provinsi Sumatera Barat	PT. KHANSA NIAGA PRATAMA	16 March 2024	ppk	Purchasing	Ya	2	Rp 386.900.000,00	Verifikasi penyelesaian paket	
2.	AL2-P2403-8826930 Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi	Alat Laboratorium	DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG	Provinsi Sumatera Barat	PT. KHANSA NIAGA PRATAMA	16 March 2024		Purchasing	-		Rp 0,00	Draft	
3.	AL2-P2403-8826930 Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi	Alat Laboratorium	DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG	Provinsi Sumatera Barat	INDOTEST MULTI LABORATAMA	16 March 2024	ppk	Purchasing	Ya	2	Rp 410.250.000,00	Paket fatal	
4.		Alat Laboratorium	DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG	Provinsi Sumatera Barat	INDOTEST MULTI LABORATAMA	16 March 2024		Purchasing	-		Rp 0,00	Draft	

Batas waktu respon paket adalah selama 3 hari kerja. Jika batas waktu jatuh pada hari Sabtu/Minggu, maka batas waktu akan diundur menjadi hari Senin.

- Daftar Paket
- Batalan Paket
- Ubah Paket
- Cacik Detail Paket
- Daftar Produk
- Proses Negosiasi
- Daftar Kontrak
- Riwayat Pengiriman & Penerimaan
- Proses Adendum Kontrak
- Selesaikan Paket

Paket ini telah memenuhi syarat untuk melakukan penyelesaian. Silahkan melakukan penyelesaian paket, atau paket akan selesai otomatis dalam 7 hari

- 1 Inisialisasi
- 2 Proses
- 3 Pengiriman
- 4 Selesai

Detail Paket AL2-P2403-8827077

Informasi Utama Dokumentasi Persiapan Pemesan & PPK

Penyedia dan Distributor/Reseller/Pelaksana Pekerjaan/Pengirim Barang Sumber Dana Diskusi

Status	Verifikasi penyelesaian paket
Batas waktu respon paket	14 Mei 2024 15:28:14
Posisi Paket	ppk
ID RUP	48643105



Etalase Produk Alar Laboratorium

ID Paket AL2-P2403-8827077

Jenis Paket Purchasing

ID RUP 48643105

Sumber Dana

Diskusi

Form Penilaian Penyedia

Berikan rating terhadap penyedia yang memproses pembelian paket ini.

Akurasi Produk

Apakah produk yang tiba sesuai dengan produk yang dipesan? Bagaimana kualitas produk yang tiba? Apakah dalam keadaan baik?

★★★★

Pelayanan

Respon penyedia selama proses pembelian paket.

★★★★

Kecepatan Pengiriman

Sejak PPK menyetujui pembelian sampai produk tiba ditujuan. Mohon dipertimbangkan dengan bijaksana terkait jarak tempuh, rute pengiriman, bencana alam, dan kondisi-kondisi lainnya yang dapat mempengaruhi pengiriman.

★★★★

Pesan Tambahan

Tutup

Selesai

Status

Status Verifikasi penyelesaian paket

Batas waktu respon paket 14 Mei 2024 15:28:14

Posisi Paket ppk

Riwayat Paket

Meranda Daftar Paket Detail Paket

- Daftar Paket
- Cetak Detail Paket
- Daftar Produk
- Proses Negosiasi
- Daftar Kontrak
- Riwayat Pengiriman & Penerimaan
- Proses Adendum Kontrak

Berhasil menyelesaikan paket

Detail Paket AL2-P2403-8827077

- 1
 - 2
 - 3
 - 4
- Inisialisasi Proses Pengiriman Selesai

Informasi Utama Dokumentasi Persiapan Pemesan & PPK

Penyedia dan Distributor/Reseller/Pelaksana Pekerjaan/Pengirim Barang Sumber Dana Diskusi

Etalase Produk	Alat Laboratorium
ID Paket	AL2-P2403-8827077
Jenis Paket	Purchasing
ID RUP	48643105
Produk Wilayah	Nasional

Nama Paket Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi

Rating Penyedia	
Akurasi Produk	★★★★★ Sangat Baik
Pelayanan	★★★★★ Sangat Baik
Kecepatan Pengiriman	★★★★★ Sangat Baik
Pesan Tambahan	

Static

Daftar Paket

Tampilkan BPMN

Nomor	Paket	Komoditas	Satuan Kerja	Instansi	Nama Penyedia	Tanggal Buat	Posisi	Jenis Paket	Negosiasi	Total Produk	Total Harga	Status	Lacak Status
1.	AL2-P2403-8827077 Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi	Alat Laboratorium	DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG	Provinsi Sumatera Barat	PT. KHANSA NIAGA PRATAMA	16 March 2024	ppk	Purchasing	Ya	2	Rp 386.900.000,00	Paket selesai	
2.	-	Alat Laboratorium	DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG	Provinsi Sumatera Barat	PT. KHANSA NIAGA PRATAMA	16 March 2024	-	Purchasing	-	-	Rp 0,00	Draf	
3.	AL2-P2403-8826930 Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi	Alat Laboratorium	DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG	Provinsi Sumatera Barat	INDOTEST MULTI LABORATAMA	16 March 2024	ppk	Purchasing	Ya	2	Rp 410.250.000,00	Paket batal	
4.	-	Alat Laboratorium	DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG	Provinsi Sumatera Barat	INDOTEST MULTI LABORATAMA	16 March 2024	-	Purchasing	-	-	Rp 0,00	Drafi	
5.	AL2-P2303-3246941 Pengadaan Alat Automatic Marshall	Alat Laboratorium	DINAS BINA MARGA, CIPTA KARYA DAN TATA RUANG	Provinsi Sumatera Barat	INDOTEST MULTI LABORATAMA	06 March 2023	ppk	Purchasing	Ya	1	Rp 490.000.000,00	Paket selesai	

Informasi Riwayat Pengiriman

ID Paket : AL2-P2403-8827077

Nama Paket : Belanja Modal Alat Laboratorium Bahan Bangunan Konstruksi

Total Produk	2
Jumlah Produk yang sudah lengkap diterima (berdasarkan penyelesaian penerimaan produk)	2

No Dokumen (LKPP)	No Dokumen	Tanggal Dokumen	Catatan	Status
8827077244	SJ_002MKT_KNP_IV_2024	25 April 2024		Paket telah sampai

MANUAL BOOK

ALAT AUTOMATIC MARSHALL COMPACTOR

INNOVATIVE. GLOBAL. MANUFACTURER.

Product code Codice Prodotto
**LOAD FRAME FOR
MARSHALL STABILITY**

Note

Thank you for purchasing Matest product.
Read this manual carefully for a correct machine/equipment functioning.
In case of sale, the manual and its enclosures should be given to the new owner.
For further information contact your authorized distributor or Matest at
info@matest.com

Note

Vi ringraziamo per aver acquistato un prodotto Matest.
Per garantire il funzionamento ottimale della macchina/attrezzatura, Vi preghiamo di leggere attentamente questo manuale d'istruzioni.
In caso di vendita, il presente manuale ed i suoi allegati devono essere consegnati al nuovo proprietario.
Per ulteriori informazioni contattate il rivenditore autorizzato a Voi più vicino o scrivete a
info@matest.com

Indonesian Exclusive Authorized Distributor

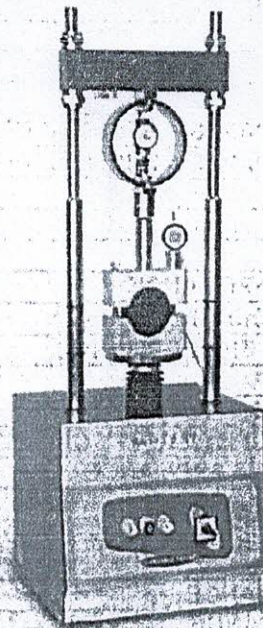
INDOTEST
MATERIAL TESTING EQUIPMENT



Instruction Manual

"MARSHALL PRESS – 50kN"

Do not attempt to operate this equipment before reading
and comprehending the manual in all its parts



Users

MACHINE MANUFACTURERS | DRAUGHTSMEN | OPERATORS | MAINTENANCE WORKERS | ANY OTHERS

REV.	DESCRIPTION	MANAGED	APPROVED	CODE	PAGES	ISSUE DATE
01	Operation Manual	Technical Office	Tech. Manager	-	15	11/2009

GENERAL INDEX

CHAPTER 1	GENERAL INFORMATION
1.1	GENERAL FEATURES
1.2	IDENTIFICATION
1.3	APPLICATIONS
1.4	STRUCTURE AND OPERATING OF THE MACHINE
CHAPTER 2	SAFETY INFORMATION
2.1	GENERAL SAFETY STANDARD
2.2	SAFETY GUARDS
2.3	DANGEROUS PARTS AND RESIDUAL RISKS
2.4	NOISE
CHAPTER 3	INSTALLATION
3.1	LIFTING
3.2	UNPACKING
3.3	INSTALLATION
3.4	ELECTRIC CONNECTIONS
CHAPTER 4	MACHINE FEATURES
4.1	DIMENSIONS AND MASS
4.2	CALIBRATION
CHAPTER 5	OPERATOR INTERFACE
5.1	DESCRIPTION OF PARTS – ENCLOSURE B – INSIDE VIEW OF THE APPLIANCE
5.2	DESCRIPTION OF PARTS – ENCLOSURE C – CONTROL PANEL
CHAPTER 6	USE
6.1	WARNINGS
6.2	TOOLING OF THE APPLIANCE
6.3	SPECIMEN POSITIONING
6.4	SWITCHING ON OF THE APPLIANCE
6.5	EMERGENCY STOP
6.6	STARTING AFTER A EMERGENCY STOP
6.7	STOP CONTROLLED BY SAFETY CIRCUITS
6.8	SWITCHING OFF THE APPLIANCE
6.9	TEST STARTING
CHAPTER 7	MAINTENANCE
7.1	ROUTINE MAINTENANCE
7.2	SPECIAL MAINTENANCE
7.3	CALIBRATION
7.4	INSPECTION PERIODICAL
CHAPTER 8	DIAGNOSIS
8.1	DIAGNOSIS
CHAPTER 9	SCRAPPING
9.1	SETTING ASIDE
9.2	SCRAPPING
ENCLOSURE	
A	COMPLETE APPLIANCE
B	INSIDE VIEW OF THE APPLIANCE
C	CONTROL PANEL
EEC CONFORMITY DECLARATION (ONLY FOR EEC COUNTRIES)	

CHAPTER 1 GENERAL INFORMATION

1.1 GENERAL FEATURES

- This manual is addressed to the carrier, the installer, the user, the maintenance operator, the scrapping operator.
- Please read it carefully because it informs you about the operating of the machine in safety conditions.
- This manual has to be considered a part of the product and concerns only the machine it is delivered with.
- Keep the manual in order during the whole life of the appliance to consult it for any needs.
- In case of sale, the manual and its enclosures should be given together with the machine.
- The manufacturer assumes no liability for any damages caused by a misuse of the machine.
- The manufacturer has the right to modify this technical literature as well as the machines this refers to without any previous notice.
- Messages meaning:

ATTENTION

It shows the procedures that can damage seriously the machine if they are not followed carefully.

DANGER

It shows the procedures that can be dangerous to the operator if they are not followed carefully.

1.2 IDENTIFICATION

MANUFACTURER IDENTIFICATION: See the cover page

MACHINE IDENTIFICATION: See the plate on the machine where the complete identification data and the electrical features are to be found.

1.3 APPLICATIONS

Marshall motor-driven Press has been designed for compression tests on bituminous mixes. This equipment must be used exclusively to reach the purpose for which it has been conceived. Any other use must be considered improper.

ATTENZIONE

Le indicazioni riportate nel presente manuale servono esclusivamente per il corretto utilizzo dell'apparecchiatura. Per indicazioni sulla corretta metodologia di prova, consultare le specifiche norme vigenti riferite alla prova stessa.

1.4 STRUCTURE AND OPERATING OF THE MACHINE

The machine consists of three parts (see Enclosure "A"):

- The press (B) consists of a plate base on which a screw-jack (B14) is fixed. On it load columns (B4) are fixed and a cross bar (B2) is fixed on their upper part by means of screw-nuts (B1). Besides, the screw-jack is provided with a load plate (B7) on which it impresses a vertical upward and downward movement. The press has a loading cell for the reading of the load, a shifting transducer for the reading of the strain and a stability mould for the insertion and locking of the test piece.
- The control panel (C) enables you to set the functions of the press.
- The digital gearcase (D) enables the reading of a load and a shifting by means of a load cell and shifting transducers, both for vertical and horizontal shifts.

For further information please contact the agent or the manufacturer.

CAPITOLO 2 SAFETY INFORMATION

- The use, lifting, installation, maintenance and scrapping of the machine are allowed only to qualified staff. Qualified staffs are composed by people who are authorised by the safety responsible to do any activities due to their experience and acknowledgement of the operating of the machine and

of the standards, rules and actions. The user must be carefully taught about the operating of the machine to avoid any misuse of it and about the safety devices, which the machine could be eventually equipped with. The safety devices will have to be kept always assembled and to be daily checked. The manufacturers offer training and assume no liability for any damages due to a misuse of the machine by an unskilled staff

- The manufacturer recommends following carefully the instructions and procedures of the operating manual and the safety standards concerning the safety devices and the general rules of the work environment.
- Verify the accordance of the machine to the standards in force in the State where the machine has to be installed.
- The operating manual must be carefully read by the safety responsible, by the operators and maintenance engineers. It must always be kept near the machine in order to be able to read it any times it will be necessary.
- Any tampering or modifications of the machine (electric, mechanical etc.) that are not allowed by a written agreement of the manufacturer must be considered as not permitted and the manufacturer will not accept to be charged for any damages.
- The removal or the tampering of the safety devices will be an infringement to the EEC Safety Standards. The manufacturer assumes no liability for any damages.
- The machine has to be installed in places safe from fire and explosions.
- We do recommend using only original spare parts and accessories; on the contrary the manufacturer assumes no liability.
- Be careful that any dangerous situations won't happen during the working; stop immediately the machine in the event that it will not work properly and ask the manufacturer or the Authorised Service Staff of the dealer at once.

The manufacturer assumes no liability for any damages to people, things and animals caused by the non-compliance of the above instructions.

2.2 SAFETY DEVICES

MEANING: Safety devices are all the safety measures using specific technical equipment (guards, cages etc.) to protect the operator from any danger that couldn't be avoided when the appliance was planned.

DANGER	The removal of the safety devices or any tampering of the machine could cause risks to the operator or to any other people. The manufacturer assumes no liability for any damages to people, things or animals due to the tampering of the safety devices.
---------------	--

PASSIVE SAFETY DEVICES

All those devices avoiding or reducing the risks for the operators are passive safety devices. These devices don't require any active and aware intervention to be operated.

The motorised load frame is equipped with an electric limit switch that automatically stops the moving platen (B7) when the min travel is reached. The travel of the platen upwards (B7) is not controlled by any stopping device, in fact an overcoming of the max. travel will not damage the appliance.

ATTENTION	It is anyway recommended to keep the moving platen far enough from the min. or max. travel (B4, B5).
------------------	--

ACTIVE SAFETY DEVICE

All those devices avoiding or reducing the risks for the operators are active safety devices. These devices require an active and aware intervention to be operated.

The Main Switch (C4) on the Control Panel (C) also acts as emergency switch.

2.3 DANGEROUS PARTS AND RESIDUAL RISK

The dangerous place is the space inside and around the machine where the operator could be wounded or damaged.

During some procedures the operator could face some risks of danger. The risks can be eliminated following carefully the procedures written in this manual and using suitable safety devices.

ATTENTION	In case the machine installation is not done by the Manufacturer, employ only skilled operators particularly trained for the lifting of heavy machinery.
------------------	--

GENERAL INFO.

- Before starting the standard use of the equipment, ensure that all the components are in good working conditions, check there are no defective or damaged parts. If necessary repair or replace any damaged part.
- Pay attention to the risk of electric shocks both for direct or indirect contact, due to unforeseen failure to the electric system.
- Do not subject the equipment to violent shocks.
- Do not expose the equipment to fire, extreme temperature or weld splatters.
- Avoid corrosive substances to come in touch with the equipment.
- Never wash the appliance using water sprays.

DURING THE USE

- In order to grant the max. safety levels for the operator, it is recommended not to touch any moving components during the test execution and always use the proper safety means.
- During the test execution always pay attention to the possibility of hands, fingers or body squeezing and to the possible falling down of components on the operator's feet.
- Do not wear large clothes, ties, watches, rings or others, which could entangle into the moving parts of the appliance.

LIFTING

- During the lifting take care that the machine is conveniently held and secured and that it cannot slide.
- Do not subject the moving platen and the cross bars to impacts.
- Do not stand in a direct line with the application of force. Do not allow people entrance under loads that are not conveniently supported by mechanical means.

RISK OR DANGER	FORESEEN SAFETY MEASURE
FINGER OR HANDS SQUEEZE	REINFORCED GLOVES
CUTS OR ABRASIONS	REINFORCED GLOVES

The manufacturer assumes no liability for any damages to people and things due to a lack of observance of the instructions and the use of the safety devices (see laws against the accidents in force).

2.4 NOISE

The indicated levels of noise are not necessarily safety levels for the operator. The exposure levels of the operator are obviously related to the emission levels of the appliance, but other factors influence the exposure levels as the time of exposure, the environment, and other appliances installed near to the appliance etc.

The exposure levels permit to value the damages that could be caused by the noise

Acoustical pressure level equivalent $L_{a_{eq}}$ at 1 mt. distance	59 dB(A)
Acoustical power emitted by the appliance LWA	67 dB(A)
Standard above data are referred	EN ISO 3746

DANGER	The continuous use of the machine together with other noisy appliances could cause a high level of exposure to the noise. If the daily exposure of the operator is equal or higher than 85 dB(A), Safety Devices as headphone are suggested to be worn. If the daily exposure is equal or higher than 90 dB(A), the use of the Safety Device is compulsory. For further information consult the standards of the country where the machine has been installed.
---------------	--

DANGER	Consult "DANGEROUS PARTS AND RESIDUAL RISKS" before proceeding
---------------	--

3.1	LIFTING
------------	----------------

The instructions of this section must be respected during the transport phases of the appliance in following situations:

- The lifting and the storing
- The first installation
- The further installations

The appliance is generally delivered in a wooden case movable by a forklift. The handling of the cases through lifting means must be made with the utmost care, taking into consideration the direction indicated on the packing. It is therefore advisable to use elevator trucks or cranes and to lift the appliance with belts and ropes, avoiding chains.

ATTENTION	The handling of the tanks through lifting means must be made with the utmost care, taking into consideration the direction indicated on the packing. Avoid collisions and turnovers.
------------------	--

ATTENTION	Keep the machine away from any atmospheric agent. Water and humidity can oxidise and damage irreversibly some elements.
------------------	---

3.2	UNPACKING
------------	------------------

After removing the package, check that any parts of the machine are not damaged. In case of doubt, **DO NOT USE THE MACHINE** and ask the manufacturer.

DANGER	The materials used for the package (plastic, polystyrene, screws, nails, wood etc.) have to be kept far from children. They must be thrown away in a proper collection centre.
---------------	--

ATTENTION	Avoid collisions and turnovers.
------------------	---------------------------------

ATTENTION	Before throwing away the package, pay attention that any accessories, manuals, document, spare parts are not inside.
------------------	--

3.3	INSTALLATION
------------	---------------------

The machine has to be placed in an environment suitable for the aim it has been conceived for (laboratory protected by any atmospheric agents). Skilled operator must do the installation.

ALLOWED TEMPERATURE	From +5°C to +40°C
ALLOWED HUMIDITY	From 30% to 70%
O.S.L. MAX. HEIGHT	1000 m

As mentioned above, this appliance hasn't been designed for field, but for a laboratory use; therefore it is suggested to install it in a room having a constant temperature.

- The machine must be installed so that it is free from each side in order to be able to carry out easily the maintenance operations
- No authorised people and no dangerous objects must be near the machine.
- **To optimize the use of the press, place it on a sufficiently rugged bench - with at least 200Kg carrying capacity - and high enough to enable an easy placing of the test piece and an immediate access to the control panel and to the digital gearcase.**

ATTENTION	The appliance has been calibrated to work with a specific room temperature. If the real working temperature should be different from the one it is calibrated for, we suggest you to calibrate the appliance once again to ensure a correct data detecting.
------------------	---

3.4 ELECTRICAL CONNECTIONS

DANGER	Skilled operators must arrange the electric connections.
DANGER	Before connecting, see the attached electric diagram and the plate on the machine for the information about the voltage, the frequency, etc.
DANGER	Connect the ground by the terminal PE (yellow-green) before making any other connections.
DANGER	Apply a knife switch at the top of the connecting cable of the machine to the power system. The knife switch must be combined with a safety device against the overload with a differential switch (safety switch). The technical features of the safety device must be in accordance with the standards in force in the country where the machine has been installed.

ELECTRIC TOLERANCES:

- Real voltage $\pm 10\%$ of the nominal one
- Frequency: $\pm 1\%$ of the nominal one in a continuous way; 2% of the nominal one for a short period
- The harmonic distortion of the sum from the second to the fifth harmonics not more than 10% of the total voltage as a real value between the conductors. A further distortion of 2% is accepted for the sum from the sixth to the thirtieth harmonics of the real total value between the conductors.
- With reference to the tension unbalance of the three-phase voltage, the inverted sequence component and the zero sequence component must not be more than 2% of the direct sequence component of the voltage
- The voltage pulses must not last more than $1,5\text{ ms}$ with an up/down time between 500 ms e $500\text{ }\mu\text{s}$ and a peak value not higher than 200% of the real value of the nominal tension.
- The electric feeding must not be interrupted or zeroed for more than 3 ms . Between two interruptions it must not take more than 1 s .
- The interruptions must not overcome 20% of the tension peak for more than one cycle. Between two interruptions it must not take more than 1 s .

The manufacturer assumes no liability for any damages to people, things and animals caused by the non-compliance of the above instructions.

CAPITOLO 4 MACHINE FEATURES

4.1 DIMENSIONS AND MASS

	B043
LENGTH	482 mm
WIDTH	479 mm
HEIGHT	1275 mm
WEIGHT	120 Kg
SPEED UP AND DOWN OF FLAT LOAD (B7)	50,8 mm/min

4.2 CALIBRATION

The machine is checked in the factory, using sample equipment periodically checked by officially recognised institutes.

Once the machine has been installed and set up and before official tests, has an officially recognised body check the machine characteristics, its calibration and results/values reliability. The manufacturer is exempt from all responsibility in the case of direct and indirect damage from use of the machine without official approval by the relevant bodies.

CHAPTER 5 OPERATOR'S INTERFACE

5.1 DESCRIPTION OF PARTS - ENCLOSURE B - INSIDE VIEW OF THE APPLIANCE

	CONTROL	DESCRIPTION
B1	FIXING NUTS	They allow fixing the upper cross bar (B2) to the supporting bars (B4).
B2	UPPER CROSS BAR	It allows to reduce the pressure made by the movement of the load plate (B7). Its positioning is adjustable in order to adapt the space left to the equipment used.
B3	LOAD CELL	It enables the reading of the load a test piece is subject to.
B4	SUPPORTING BARS	They bears the upper cross bar (B2) by means of fixing nuts (B1).
B5	MAX. LIMIT	It's the max. travel limit of the moving platen (B7).
B6	MIN. LIMIT	It's the min. travel limit of the moving platen (B7).
B7	MOVING PLATEN	It allows compressing the stability mould (B8) towards the ram for marshall tests (B11).
B8	STABILITY MOULD	It allows to apply the compression load to the piece which must be tested. The mould is completely opened in front, so that the specimen introduction is extremely easy and quick. This avoids any disassembling procedure.
B10	DISPLACEMENT TRANSDUCER	It enables the reading of a test piece's strain.
B11	RAM FOR MARSHALL TESTS	It is fixed to the load cell and is in contact with the spherical end of the stability mould.
B12	METAL RING	It allows fixing the gasket (B13) to the moving platen (B7).
B13	GASKET	It protects the sliding screw of the moving platen (B7) from the dust and the debris provoked by the tests.
B14	GEARED SCREW JACK	It allows the load plate to run upwards and downwards and to impress a compression force.
B15	ELECTRIC MOTOR	It allow rotating the geared screw jack (B14).
B16	END STROKE FOR PLATEN	It allow stopping the platen while running downwards. By limiting the lower position of the plate, you prevent the press from damages.
B17	SETTING BLOCKS FOR TRAVEL	They allows regulating the travel limit (B16). This allow a correct setting of the lower dead point of the platen (B7).

5.2 DESCRIPTION OF PARTS - ENCLOSURE C - CONTROL PANEL

	CONTROL	DESCRIPTION
C1	DOWN BUTTON	Using this button it is possible to let the plate (B7) move down until the min. lower limit (B6). The moving speed is constant (consult the chapter "MACHINE FEATURES" of this manual for further details).
C2	STOP BUTTON	Using this button it is possible to stop the platen movement (B7); generally it is also used whenever the operator wants to change direction without switching the appliance on or off.
C3	UP BUTTON	Using this button it is possible to let the plate (B7) move up until the max upper limit (B5). The moving speed is constant (consult the chapter "MACHINE FEATURES" of this manual for further details).
C4	MAIN SWITCH	It is used to switch the appliance on or off. If necessary it can act as emergency switch.

CHAPTER 6 USE

DANGER

Consult the Chapter "DANGEROUS PARTS AND RESIDUAL RISKS" before proceeding

6.1 WARNINGS

Before starting the normal use of the equipment it is recommended to verify that it is in good working conditions with no defective or damaged parts. If necessary proceed with the required maintenance operations

6.2 TOOLING UP

Here under we describe some "standard procedures" allowing even to an operator without a wide experience to complete a correct tool-up procedure:

REPLACEMENT/POSITIONING OF THE LOAD CELL

DANGER

During the replacement or positioning procedure handle the load cell (B3) with great care. In fact this is a high precision component and may be seriously damaged by accidental fall down and therefore it could be no more usable.

ATTENTION

Before starting the routine use of the appliance, ensure that the proving ring is suitable for the specimen to be tested.

On the top of the upper cross bar (B2) there is a hole with a screw, which is used to fix the load cell (B3). Use this screw to position or to replace the load cell whenever it is necessary.

POSITIONING OF THE STABILITY MOULD

First of all check that the distance between the load plate and Marshall's piston is wide enough to position the stability mould; otherwise lower the load plate (B7) to a level on which it is easy to position the stability mould (B8).

CONNECTION OF THE LOADING CELL AND THE SHIFTING TRANSDUCER

Link the loading cell's to D6 connector.

Link the shifting transducer to D7 connector

6.3 SPECIMEN POSITIONING

ATTENTION

Before starting the standard use of the machine, ensure that the joint is convenient to the specimen to be tested (see Chapter "TOOLING UP").

The preparation and the positioning of the material to be tested may be effected in several ways depending on the nature of the tests. For a correct procedure in the specimen handling, refer to the Standards ruling the test to be effected.

6.4 SWITCHING ON OF THE APPLIANCE

ATTENTION

Before switching on the appliance, ensure that the load frame is connected to the electric feeding net.

Put the Main Switch (C4) on the position "I".

Put the Main Switch (D1) on the position "I".

6.5 EMERGENCY STOP

In the event of an emergency, a sudden stop of the test is possible by positioning the Main Switch (C4) on "0".

ATTENTION

It's always worth reminding that the test interruption causes its cancellation.

6.6	START AFTER AN EMERGENCY STOP
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DANGER	Before starting the appliance again, find and eliminate the problem, which caused the need for an emergency stop.
---------------	---

To start the machine again, put the Main Switch (C4) on the "I" position. This will reset the appliance normal functions.

6.7	STOP CONTROLLED BY SAFETY SYSTEMS
------------	--

In case of problems, tests can be stopped by safety circuits.
The press has the following safety system:

STOP CAUSED BY THE LIMIT SWITCH (B16)

A special limit switch stops the moving platen (B7) before it reaches the lower dead point of the screw jack (B14). When the lower point is reached the moving platen (B7) is stopped, while all the normal functions of the load frame remain in use.

STOP CONTROLLED BY THE PROGRAM

If the emergency threshold is reached, the press can also be switched off following the instructions described in Section "SETUP MACHINE".

6.8	SWITCHING OFF THE APPLIANCE
------------	------------------------------------

At the end of a test cycle, follow these instructions to switch off the appliance:

1. Verify that the moving platen (B7) is at its min. travel.
2. Switch off the appliance by moving the Main Switch (C4) to the position "0".
3. Switch off the digital unit by moving the Main Switch (D1) to the position "0".

6.9	TEST STARTING
------------	----------------------

Before beginning the standard use of this machine, check its perfect working conditions by performing at least a complete trial cycle according to the instructions given up to this point.
In case of problems during this test cycle, see Chapter "DIAGNOSIS".
If neither the instructions given in this manual are not able to solve the problem, please contact our After Sale Service.

CHAPTER 7	MAINTENANCE
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DANGER	Consult "DANGEROUS PARTS AND RESIDUAL RISKS" before proceeding.
---------------	---

DANGER	All the maintenance operations must be carried out with the machine turned off and unplugged from the knife switch.
---------------	---

DANGER	Skilled operators instructed about the purposes the machine is made for must carry any kind of maintenance operations concerning the components of the machine and of the electric components, even those that may seem very simple.
---------------	--

DANGER	Only original spare parts are allowed. The Manufacturer assumes no liability in the event that non – original parts are used.
---------------	---

7.1	ROUTINE MAINTENANCE
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In order to maintain good working of the machine for a long time, clean periodically all the parts and oil the parts that are not painted.

Do not use solvents, which may damage the painting and the parts made of synthetic materials.

Ensure that all procedures described in the Chapter "PERIODICAL INSPECTIONS" are correctly and punctually executed. This care will help preventing failures and dysfunctions.

7.2	SPECIAL MAINTENANCE
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In case of special maintenance operations (repairs, replacement of parts and any other operation not described in this manual) ask directly to the manufacturer.

7.3 CALIBRATION

Proceed with a check of the calibration by officially recognised institutes following the standards in force.

7.4 PERIODICAL INSPECTION

Ensure that all procedures described in this Chapter are correctly and punctually executed. This care will help preventing failures and dysfunctions.

OPERATION	GREASING THE SLIDING SCREW OF THE MOVING PLATEN (B7)
PROCEDURE	Clean and grease with the utmost care the sliding screw of the moving platen (B7). Follow this procedure: <ul style="list-style-type: none"> - Take the moving platen to its max travel limit (B5). - Undo the metal ring (B12) on the upper part of the gasket (B13) for the protection of the sliding screw, and then pull it downwards. - Grease the sliding screw using some Lithium grease. - Position the gasket (B13) in its original housing and fix it using the metal ring previously removed. - Move the moving platen up and down for a few times in order to get the best greasing of the sliding screw.
FREQUENCY	EVERY 200 WORKING HOURS

CHAPTER 8 DIAGNOSIS**8.1 DIAGNOSIS**

Some easy to solve and simple problem, which can happen during the working of the appliance, are introduced in this chapter.

ATTENTION	All maintenance, checking, control and repairing operations of each part of the machine or of the electric system, must be carried out by skilled operators instructed about the functions and working procedures of the appliance.
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PROBLEM	POSSIBLE CAUSE	CURE
After the activation of the main switch the appliance doesn't start.	No supply	Check the correct use of the main switch (C4). Verify the main in the panel
	Fuses are broken	Replace the fuses with new fuses having the same capacity.
The moving platen (B7) goes upwards but slowly without a regular movement or it doesn't move	The geared screw jack (B14) is broken	Contact the After Sale Service
	The belt is broken or shows wear	Contact the After Sale Service
	Failure to the electric motor (B15)	Contact the After Sale Service
The moving platen (B7) goes downwards but slowly without a regular movement or it doesn't move	The geared screw jack (B14) is broken	Contact the After Sale Service
	The belt is broken or shows wear	Contact the After Sale Service
	Failure to the electric motor (B15)	Contact the After Sale Service

ATTENTION	Contact our After Sale Service for any other problem not listed above or in the event that the problem remains even after the operator's intervention according to the above described procedures.
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CHAPTER 9 | SCRAPPING

9.1 | SETTING ASIDE

In case of setting aside for a long time it is necessary to disconnect the electric feeding. Execute all the maintenance operations. It's recommended to cover the machine against the dust.

9.2 | SCRAPPING

When the machine is not used anymore, it is recommended:

- Disconnect the feeding cable
- Cover/destroy all the parts which may be dangerous as cutting, projecting or sharpened ones.
- Disassemble the machine and scrap it as per the actual laws.

Recycling notice for the disposal of electrical and electronic devices

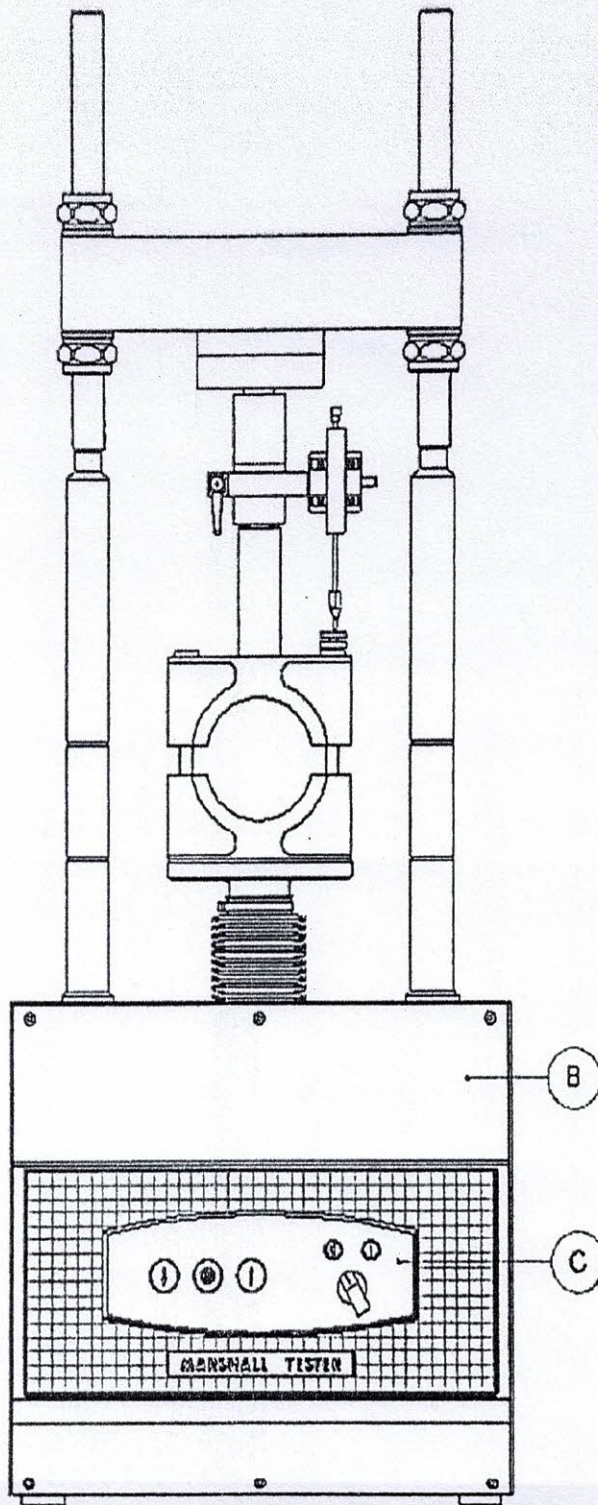


This symbol, placed on the device or on the package and/or on the documentation, suggest that the device shouldn't be dispose together with other home garbage at the end of its life cycle. To avoid further environment, or health-care damages, caused by the unsuitable disposal of garbage, we kindly recommend the user to separate this device from other different types of garbages and to recycle it in a responsible way to avoid the arguable reuse of material resources.

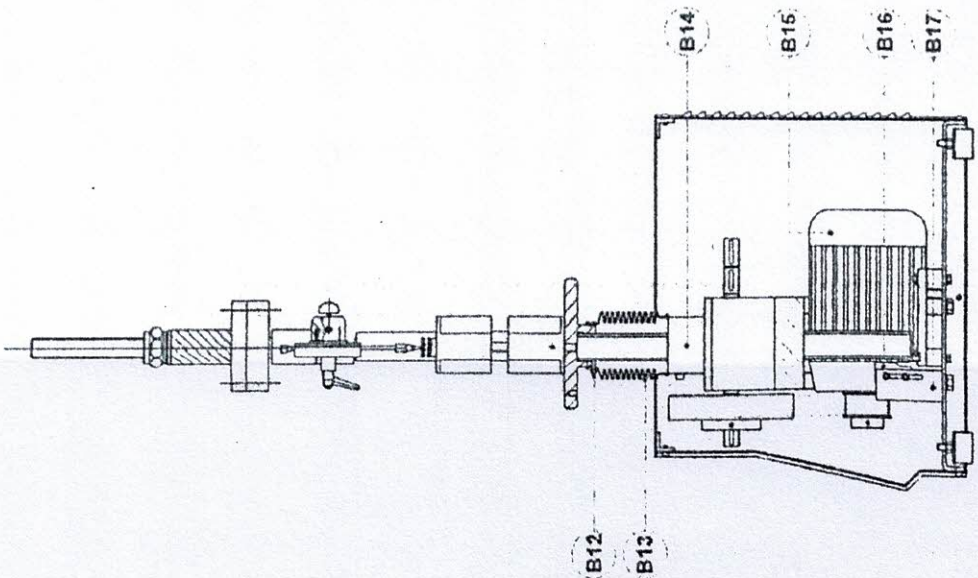
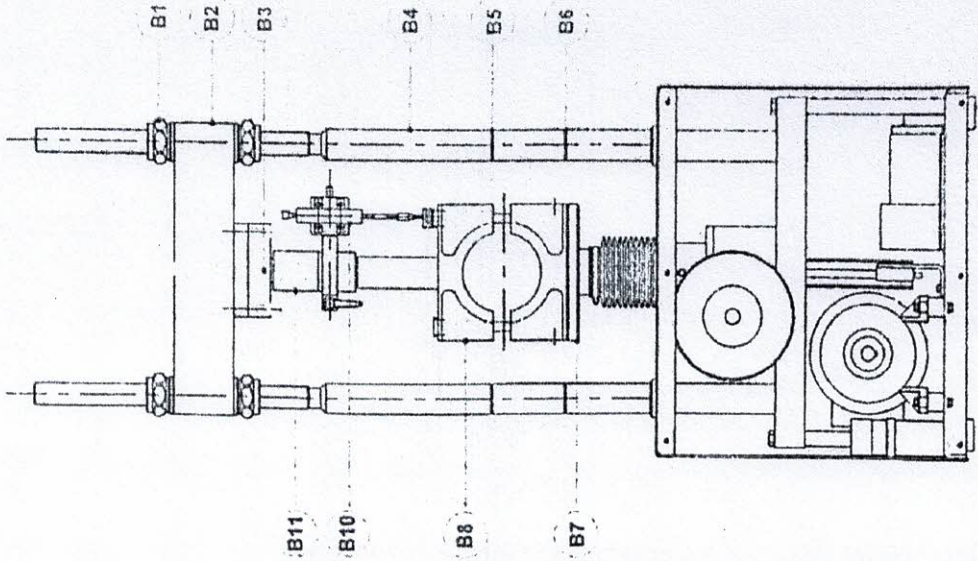
Indeed users must take care at the disposal of the equipment that have to be discarded, taking them away to the next recycling site for the appropriate recycling treatment for electrical and electronic devices. Gathering and Recycling deplete devices allow the preservation of natural resources and grant for them the adequate treatment respecting health and environment.

For further information about your local recycling site please contact your local city hall or city waste treatment department. The developer, as producer of electrical and electronic devices, will provide to finance the recycling and treatment services for deplete devices that will come back through these recycling site accordingly the local statement.

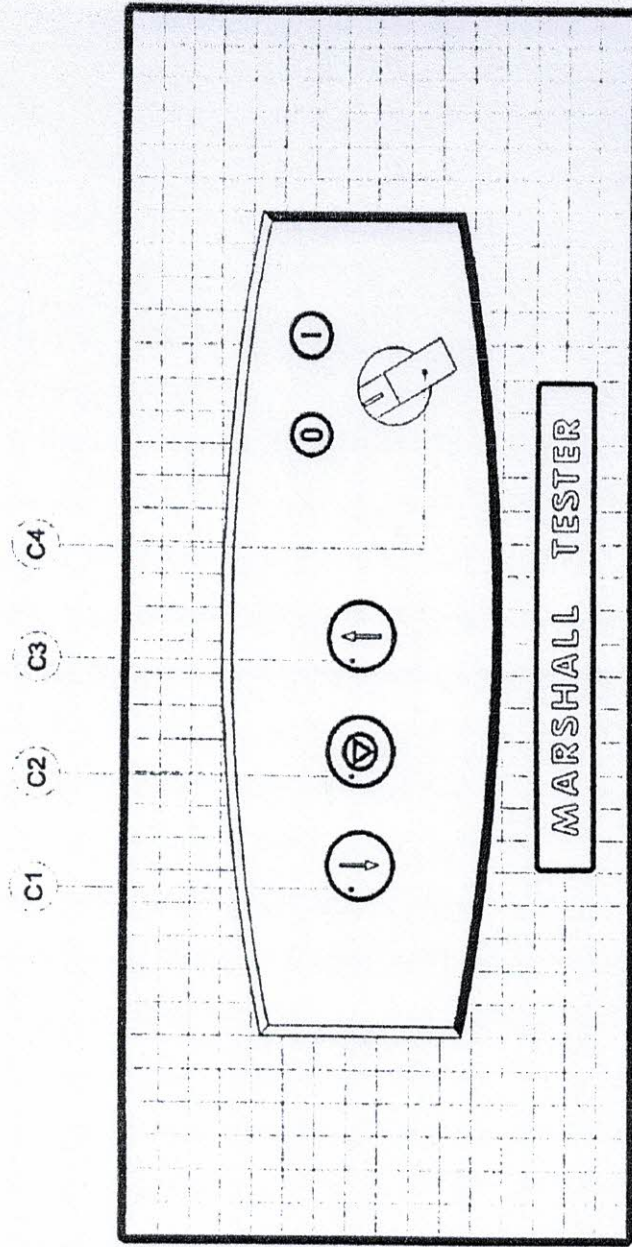
ENCLOSURE A COMPLETE APPLIANCE



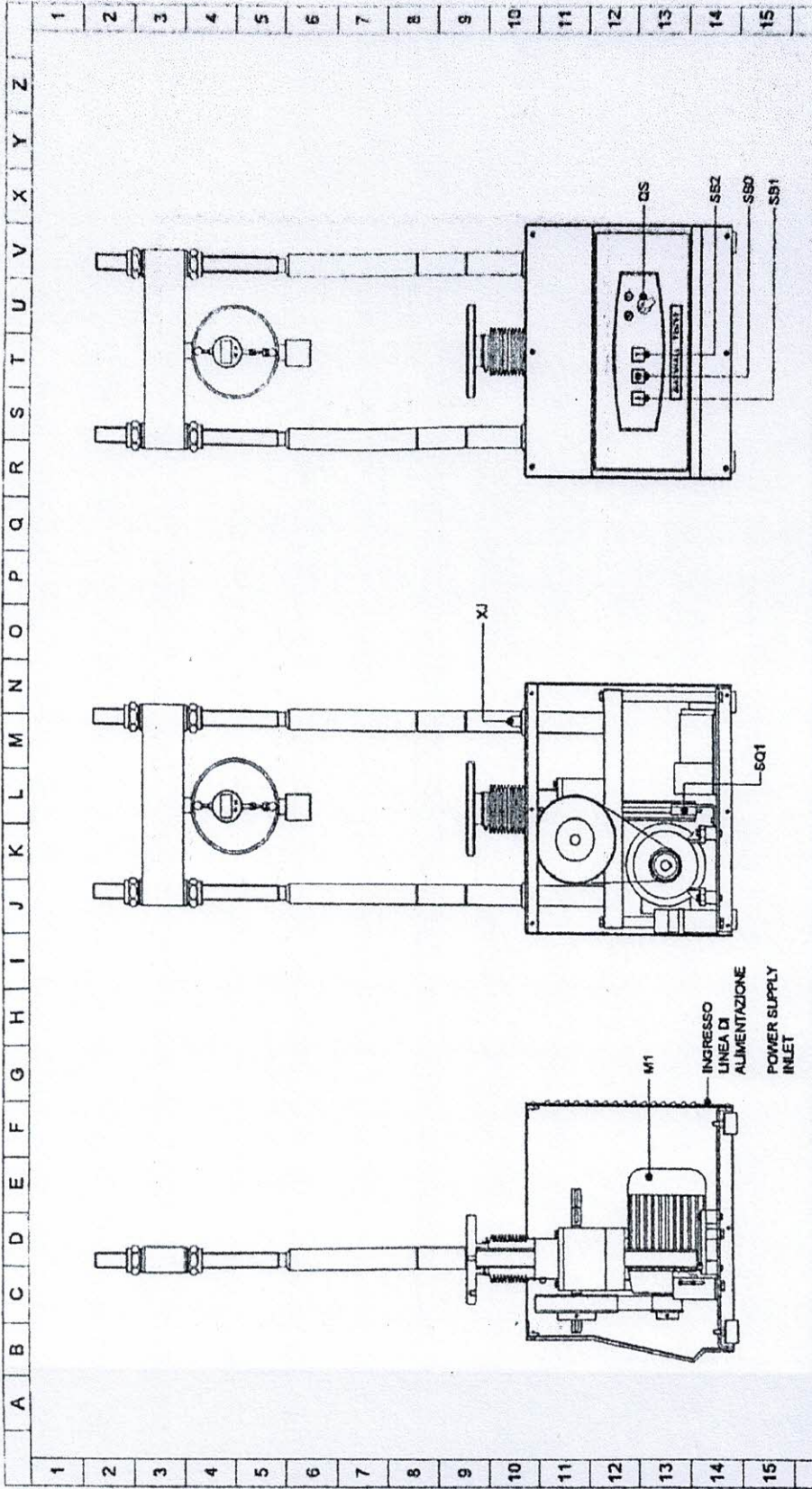
ENCLOSURE B | INSIDE VIEW OF THE APPLIANCE



ENCLOSURE C CONTROL PANEL

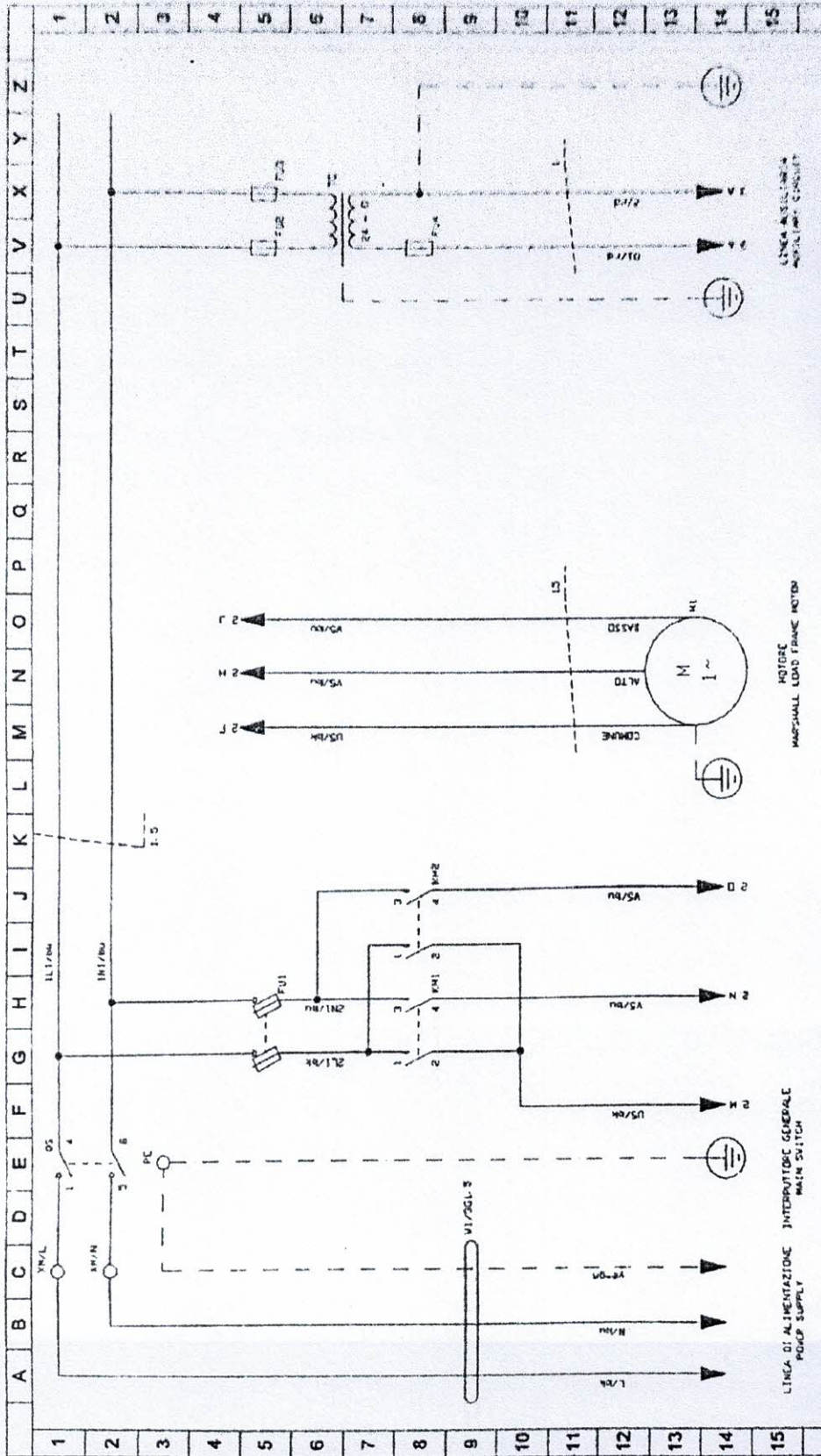


SCHEMA S1 - LAYOUT S1



PRESSA MOTORIZZATA MARSHALL 304N MARSHALL MOTORIZED LOAD FRAME 304N	
CODE : 20115 CODE J: S1-1	DATE: 11.02.2000 PAGE: 1/4
DWG: 20115-1.DWG DIR:	
COLORS CODES BL / BROWN BR / BLUE GR / GREEN YE / YELLOW OR / ORANGE GR / GREY RD / RED WH / WHITE VI / VIOLET	DECODING LABEL EXAMPLE L1 / BK LABEL CHARACTERISTIC COLOR, TYPE, REPAIRATOR LABEL XX / XX REPAIRATOR LABEL

SCHEMA S2 - LAYOUT S2



LINEA DI ALIMENTAZIONE
GENERALI CONDOTTE

MOTORE
MARSHALL LOAD FRAME MOTOR

LINEA DI ALIMENTAZIONE
POPUP SUPPLY

INTERRUTTORE GENERALE
MAIN SWITCH

PRESSA MOTORIZZATA MARSHALL 30 IN
MARSHALL MOTORIZED LOAD FRAME 30IN

CODE : 20115
DATE: 11.02.2000
PAGE: 1/4

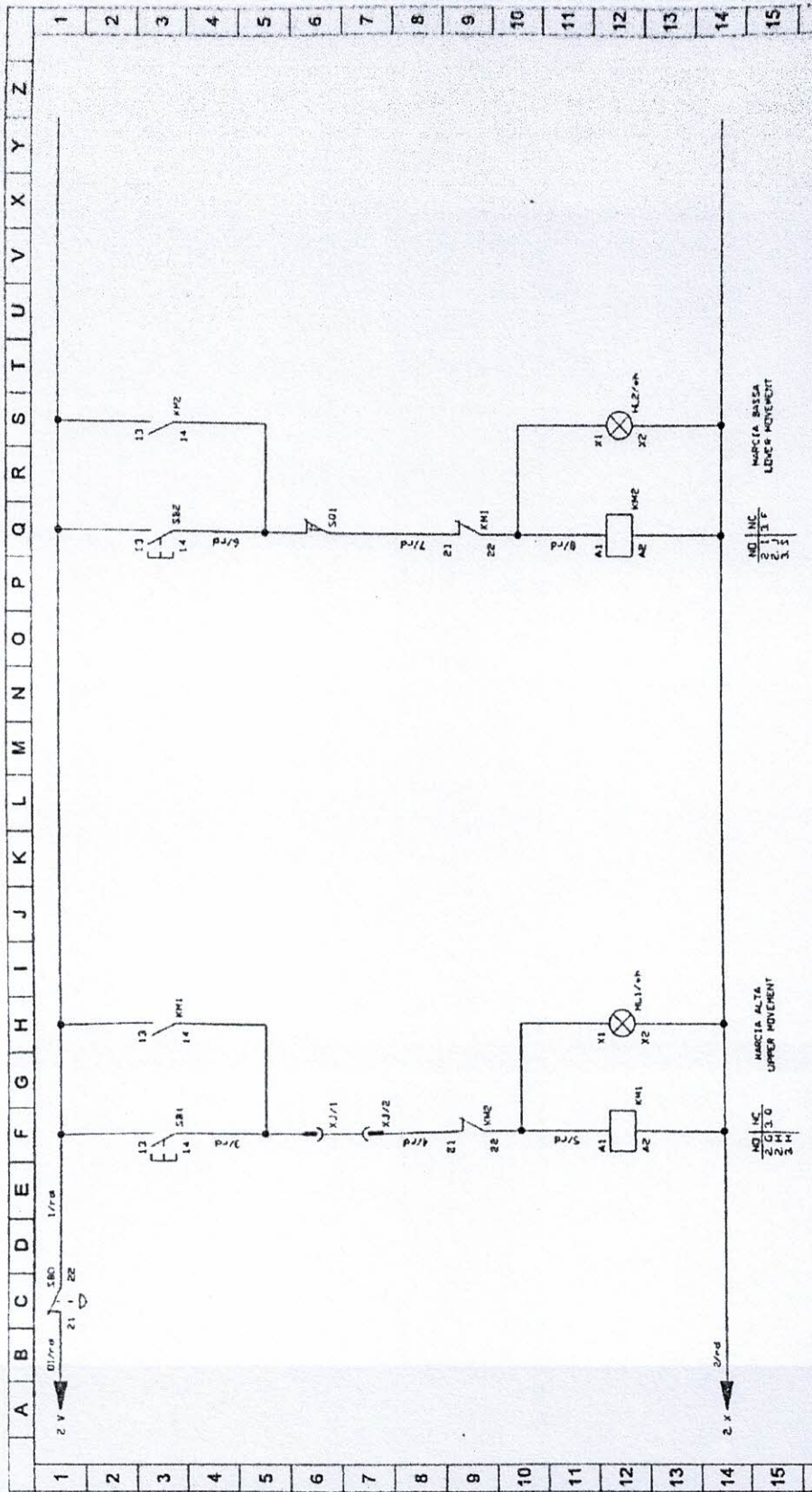
CODE J: S1-2
DNG: 20115-2-010
DR:

DECODING LABEL

COLORS CODES		EXAMPLE	
BK	BLACK	XX / XX	L1 / BK
BR	BROWN		LABEL
BL	BLUE		CARACTERISTIC
GR	GREEN		
YL	YELLOW		

COLORS CODES		EXAMPLE	
OR	ORANGE	XX / XX	L1 / BK
GRY	GREY		LABEL
RD	RED		CARACTERISTIC
WH	WHITE		
VID	VIDEET		

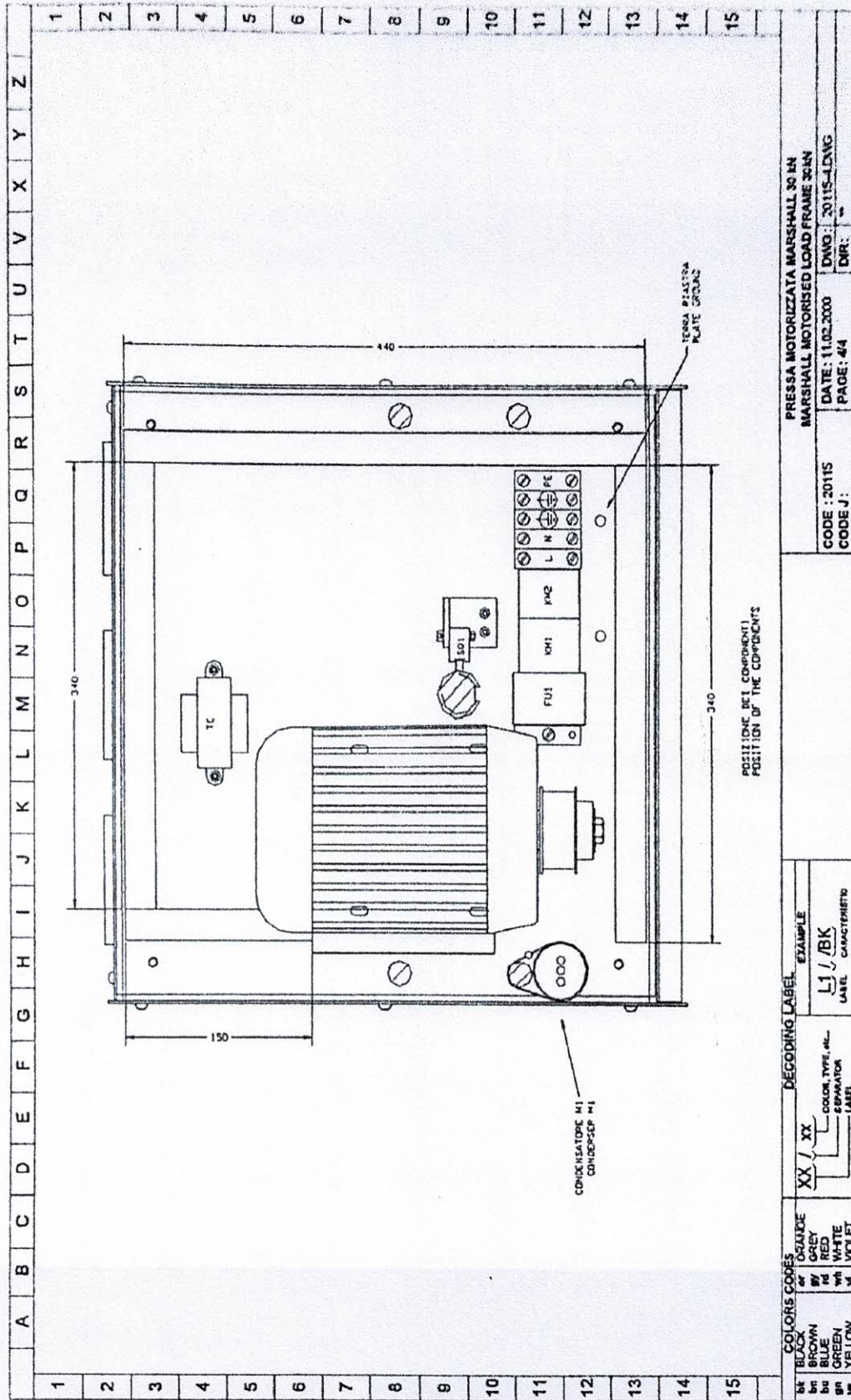
SCHEMA S3 - LAYOUT S3



COLORE CODES		LABEL DECODING	
B1 BROWN	G GREEN	XX / XX	ESEMPLI
B2 BLUE	R RED	L / BK	L / BK
B3 GREEN	W WHITE		LABEL CARATTERISTICO
B4 YELLOW	V VIOLET	-	LABEL

PRESSA MARSHALL MOTORIZZATA 30KN MARSHALL MOTORIZED LOAD FRAME 30KN			
CODE : 20115	DATE : 11.02.2000	DWG : 20115-3LDWG	DIR : "
CODE J : S13	PAGE : 3/4		

SCHEMA S4 - LAYOUT S4



PRESSA MOTORIZZATA MARSHALL 30 IN
 MARSHALL MOTORIZED LOAD FRAME 30 IN
 DATE: 11.02.2000
 DWA: 20115-LDNG
 DIR:

CODE : 20115
 CODE J:

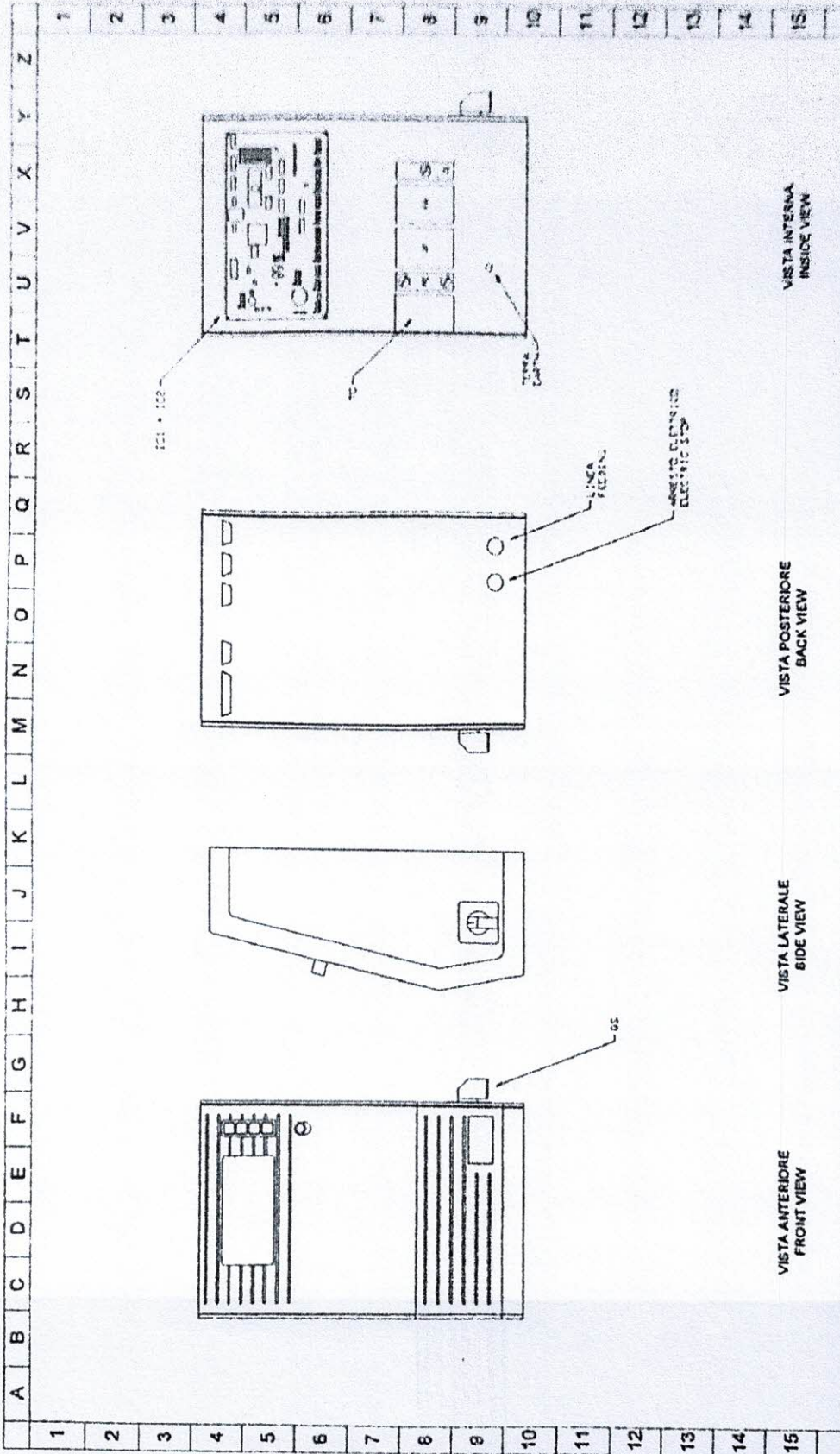
POSIZIONE DEI COMPONENTI
 POSITION OF THE COMPONENTS

DECODING LABEL
 EXAMPLE
 L1 / BK
 LABEL CHARACTERISTICS

XX / XX
 COLOR TYPE, IRL-
 EXPANATOR
 LABEL

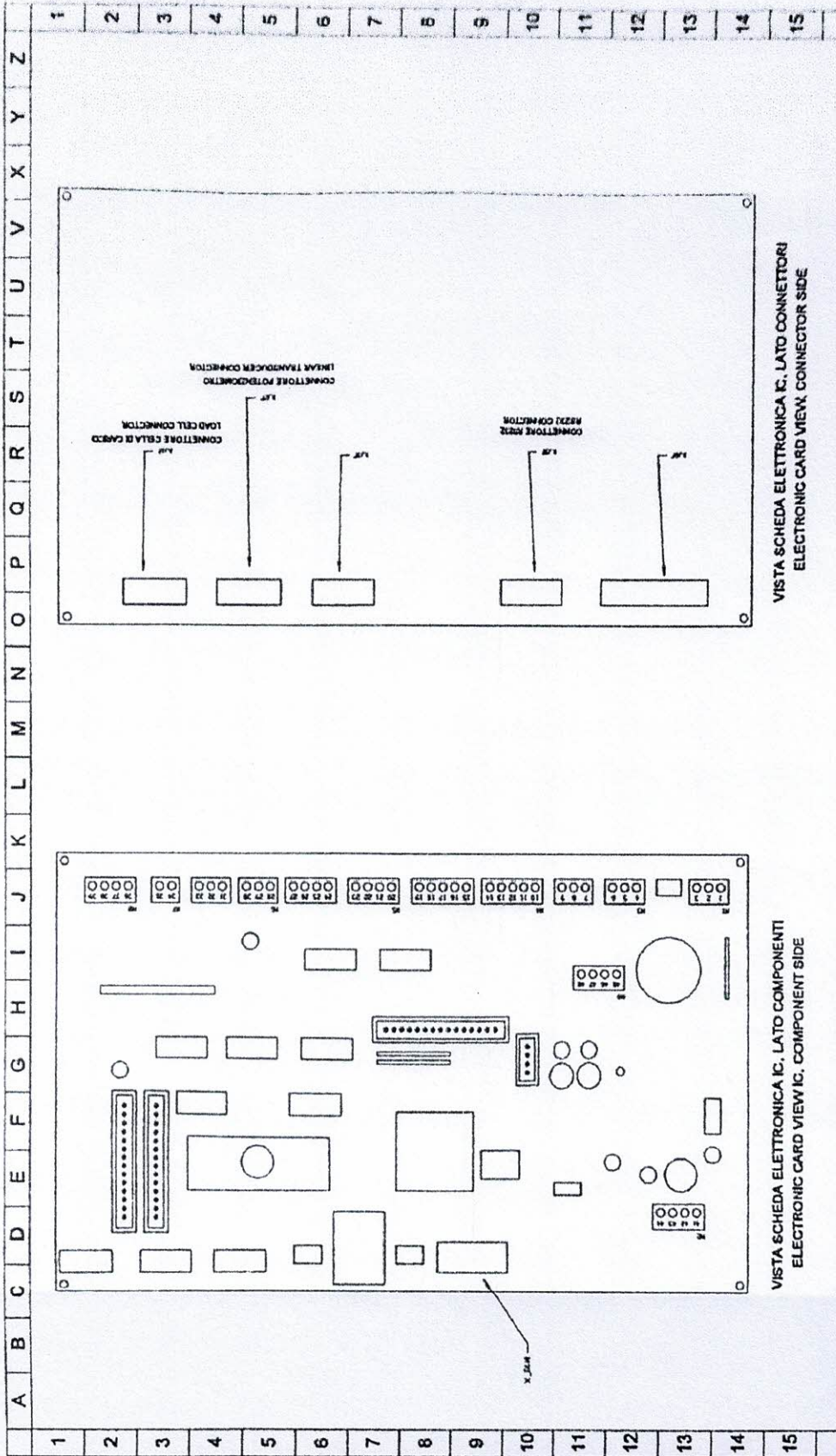
COLORS CODES	
BL	BLACK
BR	BROWN
BU	BLUE
GR	GREEN
YE	YELLOW
OR	ORANGE
GRY	GREY
RD	RED
WH	WHITE
VI	VIOLET

SCHEMA 05 - LAYOUT 05



CODICE COLORI BE NERO BR MARRONE BU BLU VE VERDE GI GIALLO		or GR GRIGIO RO ROSSO BI BIANCO VI VIOLEA	DECODIFICA SIGLE ESSEMPIO L1 / BK SERIA CARATTERISTICHE	Vant'Estabile digitale elettronica a doppia canale X.Y Digital display unit two channels X.Y DATA: 01/01/2017 DWG: 20130-1.DWG PAGINA: 14 DI: 14
CODICE 20130		VISTA ANTERIORE FRONT VIEW		
CODICE 20130		VISTA LATERALE SIDE VIEW		
CODICE 20130		VISTA POSTERIORE BACK VIEW		
CODICE 20130		VISTA INTERNA INSIDE VIEW		

SCHEMA S6 - LAYOUT S6

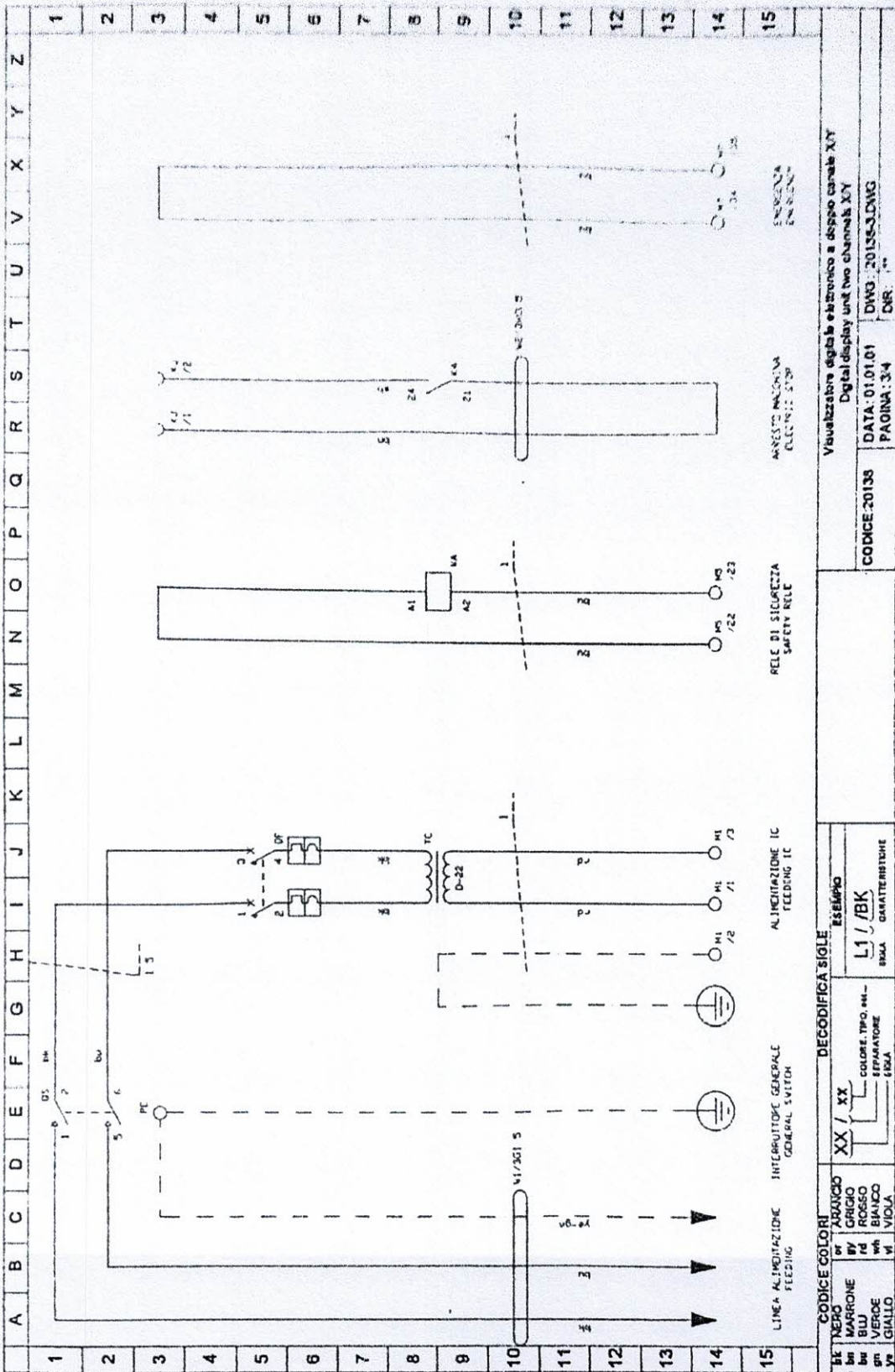


VISTA SCHEDA ELETTRONICA IC, LATO CONNETTORI
ELECTRONIC CARD VIEW, CONNECTOR SIDE

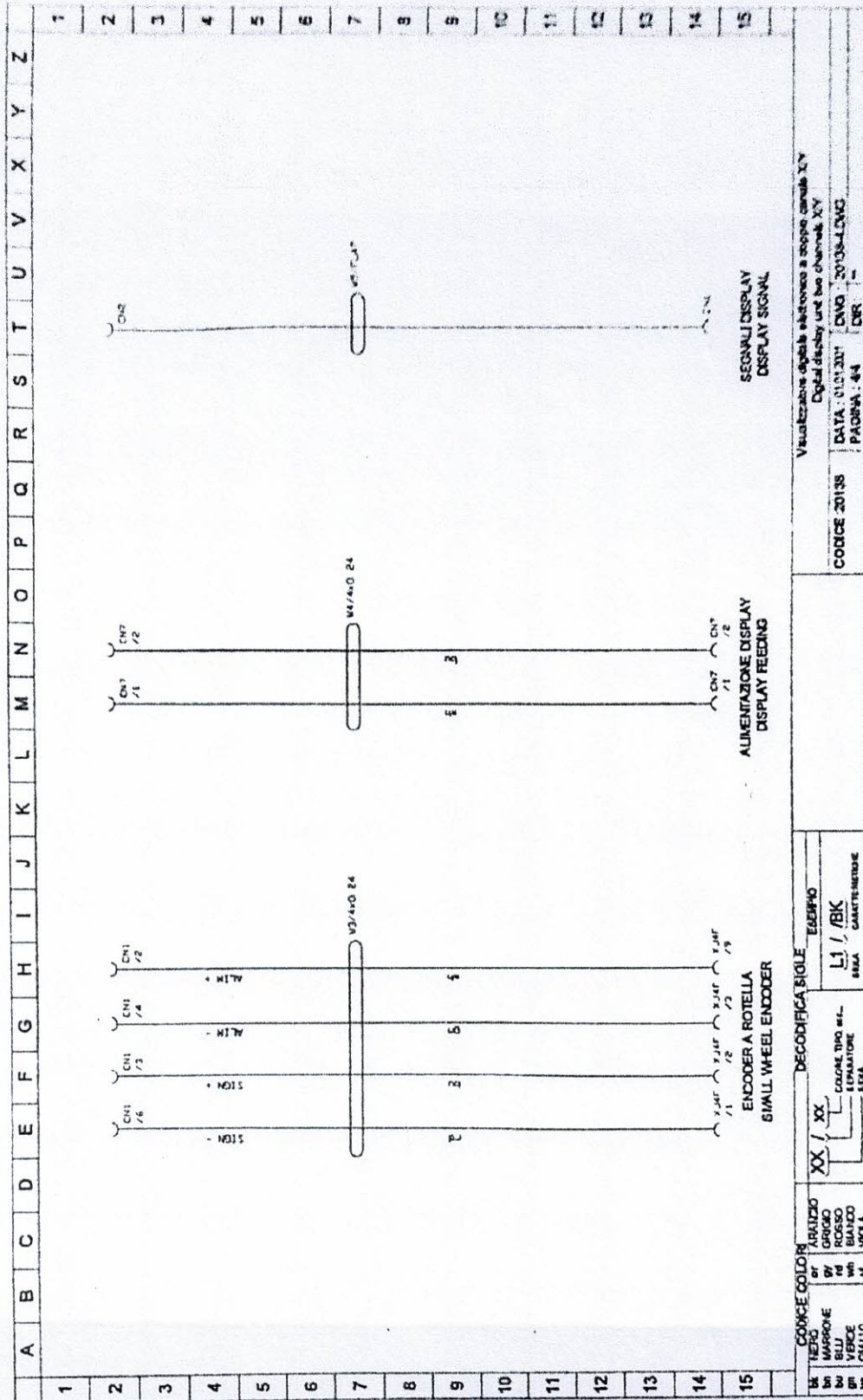
VISTA SCHEDA ELETTRONICA IC, LATO COMPONENTI
ELECTRONIC CARD VIEW IC, COMPONENT SIDE

CODICE COLORI N° NERO M1 MARONE M2 BLU M3 VERDE M4 GIALLO		DECODIFICA BIGLE XX / XX COLORE TPO. sig. -- #SEGNATURE #SOLA		ESEMPIO L1 / BK #SOLA CARATTERISTICO	
CODICE 20133		DATA 01.01.2001		DWG : 20133-2 DWG	
PAGINA : 3/4		DIR. :		Visualizzatore digitale elettronico a doppio canale XY Digital display unit two channels XY	

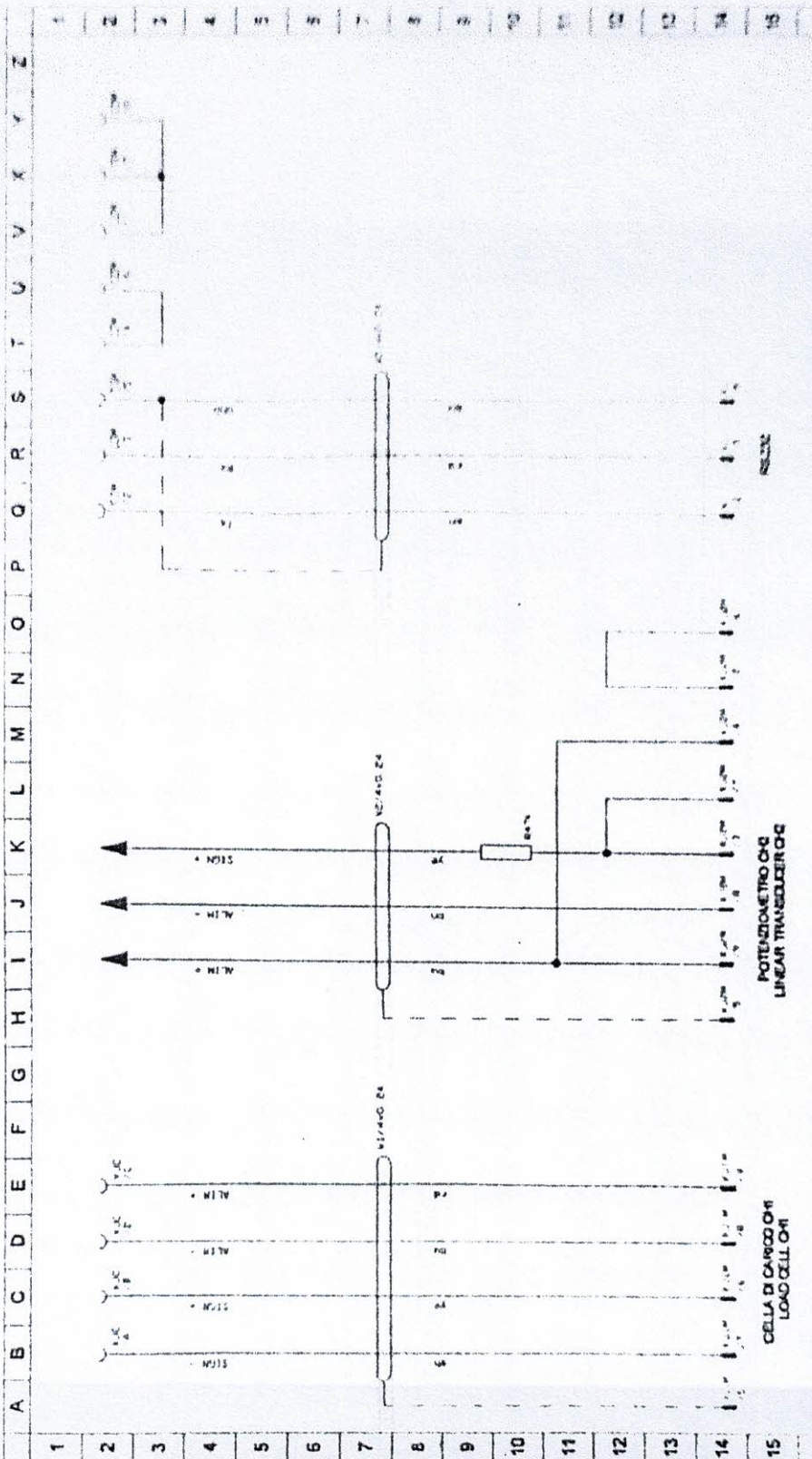
SCHEMA S7 - LAYOUT S7



SCHEMA 58 - LAYOUT 58



SCHEMA 59 - LAYOUT 59



CODICE COLORE: **XX / XX**
 METRO: **XX / XX**
 MODELLO: **XX / XX**
 SINGOLA: **XX / XX**
 SINGOLA: **XX / XX**

DECODIFICA SINGOLA: **L1 / RBK**
 LOCALITÀ: **XX / XX**
 FABBRICAZIONE: **XX / XX**
 SINGOLA: **XX / XX**

DESCRIZIONE SINGOLA: **XX / XX**
 DESCRIZIONE: **XX / XX**
 CODICE COLORE: **XX / XX**
 MODELLO: **XX / XX**
 SINGOLA: **XX / XX**
 SINGOLA: **XX / XX**

KRONOLOGI BERITA ACARA SERAH TERIMA

No.	Uraian	Nomor Surat	Tanggal	Ket.
1.	Proses Pengiriman Alat Automatic Marshall Compactor sampai UPTD LBK Dinas BMCKTR Prov. Sumbar		2 Mei 2024	
2.	Instalasi dan Pelatihan Penggunaan Alat Automatic Marshall Compactor		2-3 Mei 2024	
1.	Surat Permohonan dari Penyedia Jasa	001/SP/KNP/V/2024	6 Mei 2024	
3.	Pemeriksaan dan Berita Acara Serah Terima Pekerjaan	07/BAST.e-Katalog/UPTD-LBK/2024	6 Mei 2024	

