



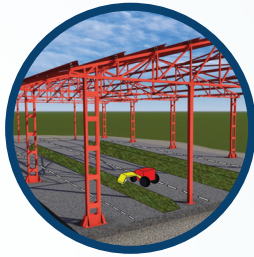
COMPOST AND VERMICOMPOST

Production Facility Project Presentation



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CERTIFICATES

 <p>GIDA İMMÜNOYOLCULUK KURUMU</p>	<p>T.C. GIDA TARIM VE HAYVANCILIK BAKANLIĞI Gıda ve Kontrol Genel Müdürlüğü</p>
<h2>ÇALIŞMA ONAY BELGESİ</h2>	
Teşisin Adı	: Rıvercom Kompost Vermikompost Tarım Hayvancılık Makina San. ve Tic. Ltd. Şti.
Teşisin Adresi	: Mithakra Yolu E. Km. Nurattari Mah. Sakaryaspor/TEKİRDAĞ
	E-posta : info@rivercom.tr Tel : (+925) 229 20 20
Teşisin Faaliyet Alanı	: Organik Gübre ve Tıpkın Zooteknikliği Üretimi (Solucan Gübresini) Kategorisi:
Ölçüm Kapasitesi	: Katı Gübre 192 Ton/Yıl Sıvı Gübre 64 Ton /Yıl
Doküman Kapasitesi Piyasaya arz edilebilir	: 100 Ton Lamine kaplamalı (1,5, 10, 25, 50 kg), 0,5-2 t arası plastik kaplarda, bidonlarda (sırı, cıva, gresvi) ve dikime elverişli
Çalışma İzni Veriliş Tarihi:	21.10.2014 (Revizyon: 09.03.2016)
Çalışma İzni Numarası :	TR-SG-AG-001
<p>13.06.2016 tarihli ve 7/59 Sayılı Bakanlar Kurulu kararıyla, 14 Ocak 2016 tarihli 1994 Sayılı Veteriner Hizmetleri, Bitki Sağlığı, Gıda ve Tarım Kanununa e ve maddelerine dayanarak 24.02.2015 tarihli ve 20152 Sayılı Bakanlar Kurulu kararıyla "Bazı Ürünlerin Satışına Karşılık Karayolları Hayvanat Ürünleri Fabrikaları Kurumlarının Kuruluşuna ilişkin olarak alınan karar ve tebliğler ile faaliyet alanı belirlenmesi sonucu aynı belgenin veriliş yeri değiştirilmiştir ve belgenin düzenleniş tarihi belirlenmiştir kararlaştırılarak ilgili mevzuata göre yerine son ve rakamla düzenlenen çalıştırma izni belgesi çıkarılmıştır.</p>	
	 Hasan H. Çelikkale Genel Müdür Yardımcısı V.
	


İ.C.
SÜLEYMANPAŞA
BELEDİYESİ

RUHSAAT VE DENETİM MÜDÜRLÜĞÜ

İSYERİ AÇMA VE ÇALIŞMA RUHSATI

Adi Soyadı : RİVERKOM KOMPOST VERMİKOMPOST TARIM
HAYVANCILIK MAKINA SAN. VE TİC. LTD.ŞTİ.

İsyerinin Üvamaı : RİVERKOM KOMPOST VERMİKOMPOST TARIM
HAYVANCILIK MAKINA SAN. VE TİC. LTD.ŞTİ.

Faaletiyet Komanaı : ORGANİK GÜBRE (SOLUCAN KÜLTÜRÜ, SOLUCAN
GÜBRESİ, KOMPOST, TARF VE SIVI GÜBRE)
ÜRETEN İŞYERİ

İsyerinin Adresi : NESRATLI MAHALLESİ, 501 SOKAK,
NO:12 SÜLEYMANPAŞA,T.D.AĞ

İsyerinin Bulunduğı Yer : Ada No: - Pafta : 3 Parşel No: 27c

İsyerinin Saafıtı : 2. Sanat Gayri Şahsi Mülseesse ☒ Şahsi Mülseesse ☐


İsyerinde Yamaı ve Parşelma Madde Katagorideki Svaylanı Depolanması Amacına Balamalı
Depolanı Hacmi* : 1.Depo 2.Depo 3.Depo 4.Depo 5.Depo 6. Depo

İsyerinde Yamaı ve Parşelma Madde Katagorideki Svaylanları Depolanmasını İzin Verilendir
Sanatı Sunulmam*

Ruhsaatın tarı ve sayısı : 03.06/2014 / 58

NOT: İ bu ruhsaat, 6156 sayılı kanun 385 nci maddesi alarak dzenenmiştir.
11 09 2015 tarih ve 2631 sayılı Bakanlık Kararıyla Olanaklı İhtidaı İstiden çıkırtı
deniz genciletilmek ve 03.08.2014 tarih ve 1893 sayılı Bakanlık Kararıyla
olaruna itinden adres genciletilmek yapılmıştır.



Valık Özgür AKAR
Başkanlık Deparmanı
Belediye Başkan Vekili





1407/2009 tarihli ve 2608/2007 sayılı Bakanlar Kurulu Kararı ile yürürlükte bulunan İhtidaı İstide ve Çalışma Kurumlarına İhtidaı Yönetmeliği kapsamında dzenilmiştir.

* Kuyruklu, oyalanılmayı potansiyel gaz, sıvılaştırılabilir gazlar ve sıvılaştırılabilir gazlar gaz itazmaları
ve diğer tehlikeli maddelerin depolanması için kullanılır.

[illegible]

	
T.C. TARIM VE ORMAN BAKANLIĞI Bakanlık Genel Müdürlüğü	
LİSANS BELGESİ	
Firmanın	
Ticari Unvanı	REYERHA KOMPOST VERİM/KOMPOST TARIM HAYVANÇILIK MAKİNA SAN VE TİC.LTD.ŞTİ.
Lisans Türü	Özel
Lisans No	1230
Marka Adresi	NİSİRATLI MAHALLESİ 011 SOKAK NO:5 SÜLEYMANPAŞA / TEKİRDAĞ
Telefon Numarası	02262292070
Fax Numarası	02262292070
Vergi Dairesi	SÜLEYMANPAŞA
Vergi Numarası	7350750747
Özelci ile, Üretim tesislerinin adresi	1- NİSİRATLI MAHALLESİ 011 SOKAK NO:12 SÜLEYMANPAŞA / TEKİRDAĞ
Fason Üretilemeden Fason Üreticinin Adı ve Üretim Tesis Adresi	
Veriştir Nedeni	ADRES DEĞİŞİKLİĞİ NEDENİYLE YENİLEME
Bu belge 29/06/2015 tarihinden itibaren 5 yıl geçerlidir.	
Bu belge Tarımda Kullanılan Organik, Mineral ve Mikrobiyal Kaynaklı Gübrelere Dair Yönetmelik kapsamında düzenlenmiştir.	
Tarih: 29/06/2016	
 Afi Metin KAYICIOĞLU Genel Müdür Daire Başkanı	

T.C. TARIM VE ORMAN BAKANLIĞI Bilimsel Ürün Denetim ve Kontrol Genel Müdürlüğü	
ORGANİK ÜRÜNLER TESÇİL BELGESİ	
Firmamın	İYERİM KOMPOZİT VERİMİKOMPOZİT TARISI HAYVANCILIK MAKİNA SAN. VE TİC. LTD. ŞTİ.
Ticari Ürünün	Ürünü
Ürünün	1230
Tipini	ORGANİK ÜRÜNLER
Tip İsmi	Solucan Gübresi
Ornit	Ken
Verilen Tesçil No	11594
Marka veya Ticari Adı(versus)	RİYO KATI SOLUCAN GÜBRESİ
Ambalaj (Özellikleri) İşaretlemeler	
Firmamın Ticari Ürünü veya Kısa Adı	İYERİM KOMPOZİT VERİMİKOMPOZİT TARISI HAYVANCILIK MAKİNA SAN. VE TİC. LTD. ŞTİ.
Tip İsmi	Solucan Gübresi
Üretilmiş Ülke (Türkiye veya İthalat)	Türkiye
Bazarı edilen özellikler	45
Organik Madde %	2
Toplam Azot %	3
Organik Azot %	1
Toplam P ₂ O ₅ %	2
Suda Çözünür K ₂ O %	0,8
Toplam (Humik + Fulvik) Asit %	4,0
CH	9-2
Maksimum EC (dS/m)	35
Maksimum Nem %	3,2
pH	6-8
Ürünün garant edilen net ağırlıklı veya hacimli	1-3-5-7-10-20-30-50-100 Kg
Değer İspatları	Çokülkenler Üst Yataşım, Diğer Gözönleri Tasfiyeleri
Verildi Tarih	15 Ocak
Bu belge 11/09/2018 tarihinde Ribaren 5 yıl için geçerlidir.	
Bu belge, Tarım, Kullandığı Organik, Mineral ve Mikrobiyal Kaynaklı Gübrelerin Diğer Ürünlerle Karıştırılması Kapsamında düzenlenmiştir.	
Günlendi: 11/09/2018	

<div>  <div> <div>T.C.</div> <div>TARIM VE ORMAN BAKANLIĞI</div> <div>Bölgesel Çevre Genel Müdürlüğü</div> </div> </div>	
ORGANİK ÜRÜNLER TESEVİ BELGESİ	
Firmamın	
Ticaret Ünvanı Lisans Türü (Üretici veya Üretici (thalatçı)) Lisans No Ödünçün Tarih Tip İsmi Çimel Verilen Tesvî No Marka veya Ticaret Adı (varsa) Ambalaj Üzerindeki İşaretlemeler	RİVERSI KOMPOST VERİMKOMPOST TARIM HAYVANCILIK MAKİNASI SAN VE TİC LTD ŞTİ 1230 ORGANİK ÜRÜNLER San Sulcuhan Gübresi 11595 RİVO SIVI SÜLCÜHAN GÜBRESİ
Firmamın Ticaret Ünvanı veya Kısı Adı	RİVERSI KOMPOST VERİMKOMPOST TARIM HAYVANCILIK MAKİNASI SAN VE TİC LTD ŞTİ
Tip İsmi Üretiliği Ülk (Türkiye veya İthalat) Beyan edilen özellikler Organik Madde % Toplam Azot % Organik Azot % Süde Çözünir K ₂ O % Süde Çözünir P ₂ O ₅ Asetik A % Maksimum EC (pHm) pH Ödünçün garantili edilen net ağırlık/kıya beyan Edilen İşaretler Veriliş Nedeni	San Sulcuhan Gübresi Türkiye 0 0,6 0,3 0,8 2,5 3-5 10-67 10-67 30-60 L Çoğukülçüm Uzak Toksik, Diğer Gövverlik Tüldüştü İla De
Bu belge 11/09/2018 tarihinde ribaran 5 yıl için geçerlidir.	
Bu belge, Tarımada Kullanılan Organik, Mineral ve Mikrobiyal Kaynaklı Gübrelere Dair Yönetmelik hükümlerine uydurulmaktadır.	
Tarih: 11/09/2018	
<div>  <div> <div>Ali Emin YATKIOĞLU</div> <div>Genel Müdür a</div> </div> </div>	

Confirmation

for Materials Used in Organic Agriculture
Document No: 90006

issued by CERES GmbH to:

**RİVERM KOMPOST VERMİKOMPOST TARIM HAYVANCILIK
MAKİNA SAN. VE TİC. LTD. ŞTİ.**
Nispetiye Mahallesi 5011. Sok. No:12
Süleymanpaşa - TEKİRDAĞ, TURKEY

CERES GmbH hereby confirms that the materials listed below which are produced or distributed by the above mentioned company, can be used in organic farming according to the following standards:

Product	Use as	Standard	Restrictions
Rivo Sex Solucan Gübresi (Vermicompost)	Fertilizer	• Reg. EC 863/2008 (Annex I, vermicompost)	None
Rivo Liquid Worm Fertilizer			
Rivo Kakt Solucan Gübresi (Vermicompost)			
Rivo Solid Worm Fertilizer			

Happurg, March 08, 2018

This confirmation is valid until: 28.02.2019

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* CERES uses the categories in this column according to EU, US and/or Japanese legislation. Some categories may be different in certain other countries.

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Commercial Register: HRB 21081

British
Certifications Inc.This is to Certify that the Management System of:
Bu belge ile Yönetim Sistemi Belgelendirilir:**RİVERM KOMPOST VERMİKOMPOST TARIM
HAYVANCILIK MAKİNA SAN. VE TİC. LTD. ŞTİ.**MERKEZ : BAĞCISEHİR MOBİLYACILAR SANAYİİ ŞİŞESİ
1644 SOKAK NO:9 B1 BLOK ESENİYER / İSTANBUL / TÜRKİYE
FABRİKA : MALKARA YOLU 4. KM NUSRATLI MAH.
SÜLEYMANPAŞA TEKİRDAĞ / TÜRKİYEHas been assessed and found to Comply with the Requirements of:
Denetlenmiş ve aşağıdaki standart gerekliliklerine uygunluğu görülmüştür:**ISO 9001:2008**The Quality Management System is applicable to:
Kalite Yönetim Sistemi:**PRODUCTION AND SALE OF WORMS
(VERMICOMPOST) FECEES****SOLUCAN (VERMICOMPOST) DIŞIKISI
ÜRETİMİ VE SATIŞI**Certificate No: 11794
Sertifika Numarası: 11794Date of Certification Audit: 17.05.2017
Denetim Tarihi: 17.05.2017Date of Issue: 22.05.2017
Yayınlanma Tarihi: 22.05.2017Date of Expiry: 21.05.2018
Son Geçerlilik Tarihi: 21.05.2018

1st Surveillance Audit : May 2018
1. Gözetim Denetim Tarihi : Mayıs 2018
2nd Surveillance Audit : May 2019
2. Gözetim Denetim Tarihi : Mayıs 2019

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Accreditation by UKAS Assessment Services to ISO 9001 and ISO 14001. Accredited since 1997. UKAS 9001, 14001, 45001, 47001, 28001, 29001, 30001, 31001, 32001, 33001, 34001, 35001, 36001, 37001, 38001, 39001, 40001, 41001, 42001, 43001, 44001, 46001, 47001, 48001, 49001, 50001, 51001, 52001, 53001, 54001, 55001, 56001, 57001, 58001, 59001, 60001, 61001, 62001, 63001, 64001, 65001, 66001, 67001, 68001, 69001, 70001, 71001, 72001, 73001, 74001, 75001, 76001, 77001, 78001, 79001, 80001, 81001, 82001, 83001, 84001, 85001, 86001, 87001, 88001, 89001, 90001, 91001, 92001, 93001, 94001, 95001, 96001, 97001, 98001, 99001, 10001, 10101, 10201, 10301, 10401, 10501, 10601, 10701, 10801, 10901, 11001, 11101, 11201, 11301, 11401, 11501, 11601, 11701, 11801, 11901, 12001, 12101, 12201, 12301, 12401, 12501, 12601, 12701, 12801, 12901, 13001, 13101, 13201, 13301, 13401, 13501, 13601, 13701, 13801, 13901, 14001, 14101, 14201, 14301, 14401, 14501, 14601, 14701, 14801, 14901, 15001, 15101, 15201, 15301, 15401, 15501, 15601, 15701, 15801, 15901, 16001, 16101, 16201, 16301, 16401, 16501, 16601, 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SECTION 1

Things To Consider in The Facility Installation



Things To Consider in The Facility Installation:

- * Growth (capacity increase, etc.)
- * Transportation
- * Raw material supply opportunity
- * Environment and conditions
- * Appropriate infrastructure
- * Slightly sloping terrain
- * Flood risk etc.

1.1. WORM FORAGE PRODUCTION UNIT

- * The decomposition of plant and animal wastes in a humid-oxygenated environment into organic fertilizers is called composting
- * Worms feed by eating rotten waste.
- * **Composting (rot) isn't worm bait.**
- * It is formed by the aerobic decomposition of organic substances by microorganisms
- * Under controlled conditions.
- * Microorganisms such as bacteria and fungi also; produce carbon dioxide, water, heat, minerals and organic matter by burning organic compounds.
- * In this process, the temperature rises and pathogens (disease-causing microorganisms), weed seeds and harmful insect species are destroyed.

Highlights of the Composting Process:

- * C/N ratio (average 30%): For growth and microbial activity
- * Sufficient oxygen: For the aerobic organism
- * Humidity level: For aeration effect
- * Appropriate temperature
- * Appropriate environmental conditions

1.1.1. WASTES TO BE PROCESSED IN THE FACILITY (Raw Material)

- * It is foreseen to use 70% (usually) cattle manure and 30% organic waste in the forage facility. (This ratio varies according to the carbon nitrogen ratio).
- * The physical and chemical properties of the cattle manure to be used in the facility are shown in table 1.

Table 1. Properties of cattle excrement passed through the separator to be used in the forage facility

PARAMETER	CATTLE MANURE
Dry Matter [%]	14
Organic Dry Matter [%]	85
N [%]	2,6
C [%]	40

- * If the daily manure production of a cattle is calculated as 0.029 tons and it is assumed that there are 600 cattle on your farm: $600 \times 0,029 = 17,4$ t/day
- * In this case, 17.4 tons a day of cattle feces will be used.
- * The collectability ratio of manure from cattle has been accepted as 1/2. The coefficient of gathering depends on the duration of the animals in the barn, the time the feces pass to the facility and the climatic factors.
- * The dry matter ratio of cattle excreta was evaluate as 14%.

Table 2. Characteristics of the cattle manure to be used in the forage facility

	Number of Animals	Daily Waste Generation [t/day]	Daily Waste Generation [t/day]	Collectable Fertilizer Amount [t/day]	Fertilizer Collected in 60 Days [t/60 days]	KM of Material Collected in 60 Days [t/60 days]
Cattle Feces	600	0,029	17,4	8,7	522	73,08

- * The content of 30% domestic organic wastes to be used in the forage facility consist of green wastes (domestic organic wastes, gras, tea, coffee grounds, etc.) and brown wastes. (sawdust, paper, cardboard, etc.).

1.1.2. CREATING A STACK

- * 8.7 tons of separated manure can be obtained from a cattle farm with 600 heads per day.
- * The forage formation process will be carried out in heaps and the waiting time in heaps will be around 60

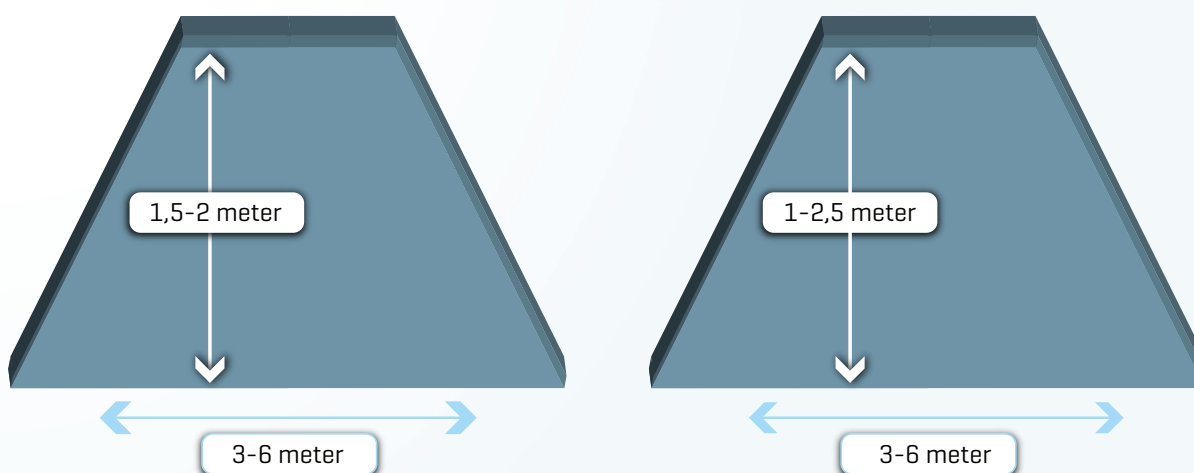


Figure 1. Stacking Dimensions

1.1.3. FORAGE PRODUCTION

- * The forage production process will be carried out on the concrete floor. The concrete floor can be expanded according to the required capacity.
- * Drainage channels will be established on the concrete floor for the evacuation of leakage water.
- * The piles placed on the ground will be regularly mixed with the forage mixing machine and aeration will be provided. When necessary, it will be moistened for the continuity of the microbiological process.
- * Stack mixing will be done every day for the first week. It will be performed 2 or 3 times a week in the ongoing process.
- * It is necessary to have a water tank in order to control the humidity during mixing.
- * After 60 days of processing, it is planned to produce 4-6 tons of ready-to-use compost from 7-8 tons of bovine manure passed through a separator.
- * The facility area (concrete section) to be used can be evaluated as 800 or 1,000 m².
- * In this case, the shape and length of the stack can be 25-50 m (optionally), the stack width can be 3-6 m. The distance between the line lengths should be such that the equipment to be used for mixing can pass.
- * There must be a tractor and front loader at the facility in order to create the stack. (Figure 2)
- * A compost mixing machine must be located in the facility in order to mix the stack at the proper ratio . (Figure 3)



Figure 2. Tractor and a front loader to be used in the forage facility



Figure 3. Compost mixing machine to be used in the forage facility

1.1.4. INDOOR SYSTEM

- * It is the combustion process of manure placed in a closed area, the lower part of which is arranged in such a way that the airflow is transferred.
- * The air given from below provides aerobic respiration in the man.
- * The fertilizer placed in the indoor system is formed in 4 to 8 months.
- * It provides benefits to production areas in terms of space savings. (Figure 4)



NOTE: *It isn't recommended to use this system in forage production. It can be used mostly for compost production.*



1.1.5. RESTING ON AIR FORAGE

- * Since the reaction doesn't end completely, the forage with a high temperature should be kept until it cools completely (no smoke). It is recommended to cover the forage pile with canvas.

Forage Content:

	REASONABLE RANGE	PREFERRED RANGE
C/N	20:1-40:1	25:1-30:1
Moisture Content	%40-65	%50-60
Amount of Oxygen	>%6	%16-18,5
pH	5,5-9	6,5-8,5
Temperature	40-60	55-60
Particle Size	5 cm	Changeable

- * C (carbon) and N (nitrogen) are essential and important nutrients.
- * During forage production, microorganisms use carbon for energy and growth, and nitrogen for protein and reproduction.

Carbon-Nitrogen Ratio Nitrogen Source:

Horse Manure	852:1
Pig Manure	563:1
Cattle Manure	442:1
Grass Clippings	80:1
Vegetable Waste	35:1

Carbon Source:

Newsprint	852:1
Cardboard	563:1
Sawdust	442:1
Leaf	80:1
Vegetable Waste	35:1

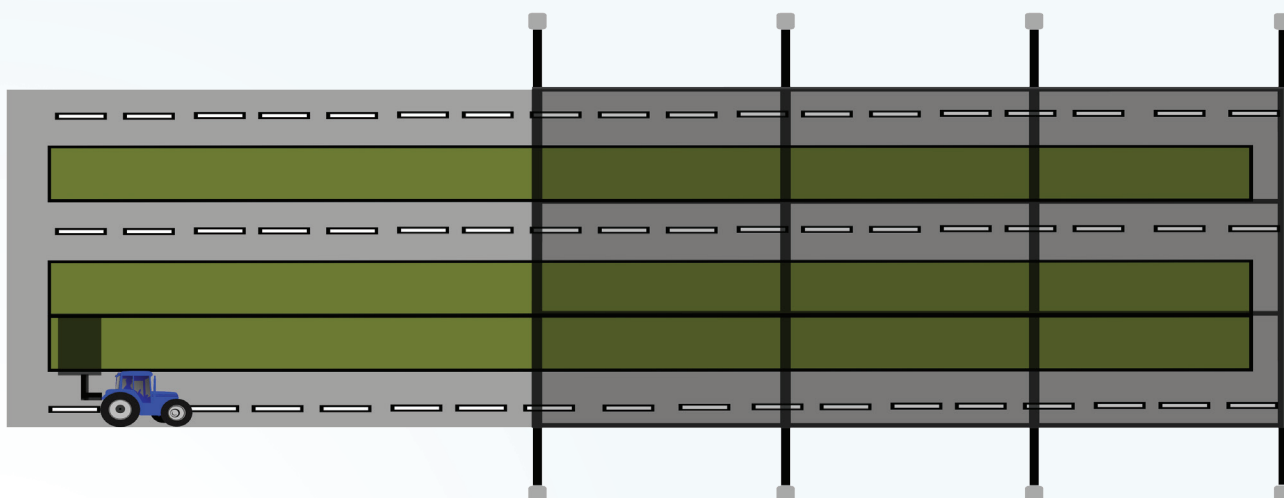
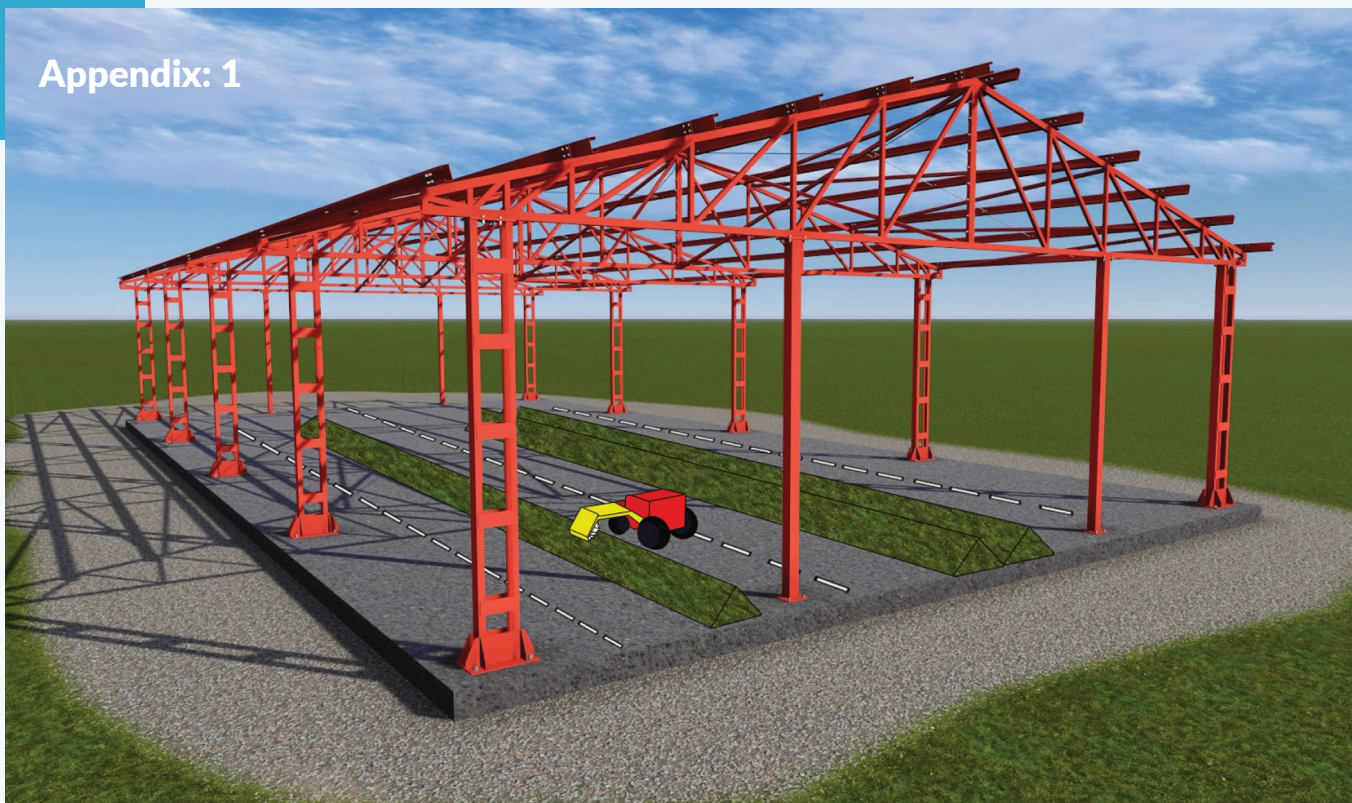


Figure 5. Sample Compost Facility Drawing (See Appendix: 1 and Appendix: 2)



Figure 6. Forage production and/or compost facility

Appendix: 1



Appendix: 2



SECTION 2

Vermicompost Production Facility



2.1. VERMICOMPOST PRODUCTION FACILITY

2.1.1. RESTING ON AIR FORAGE AREA

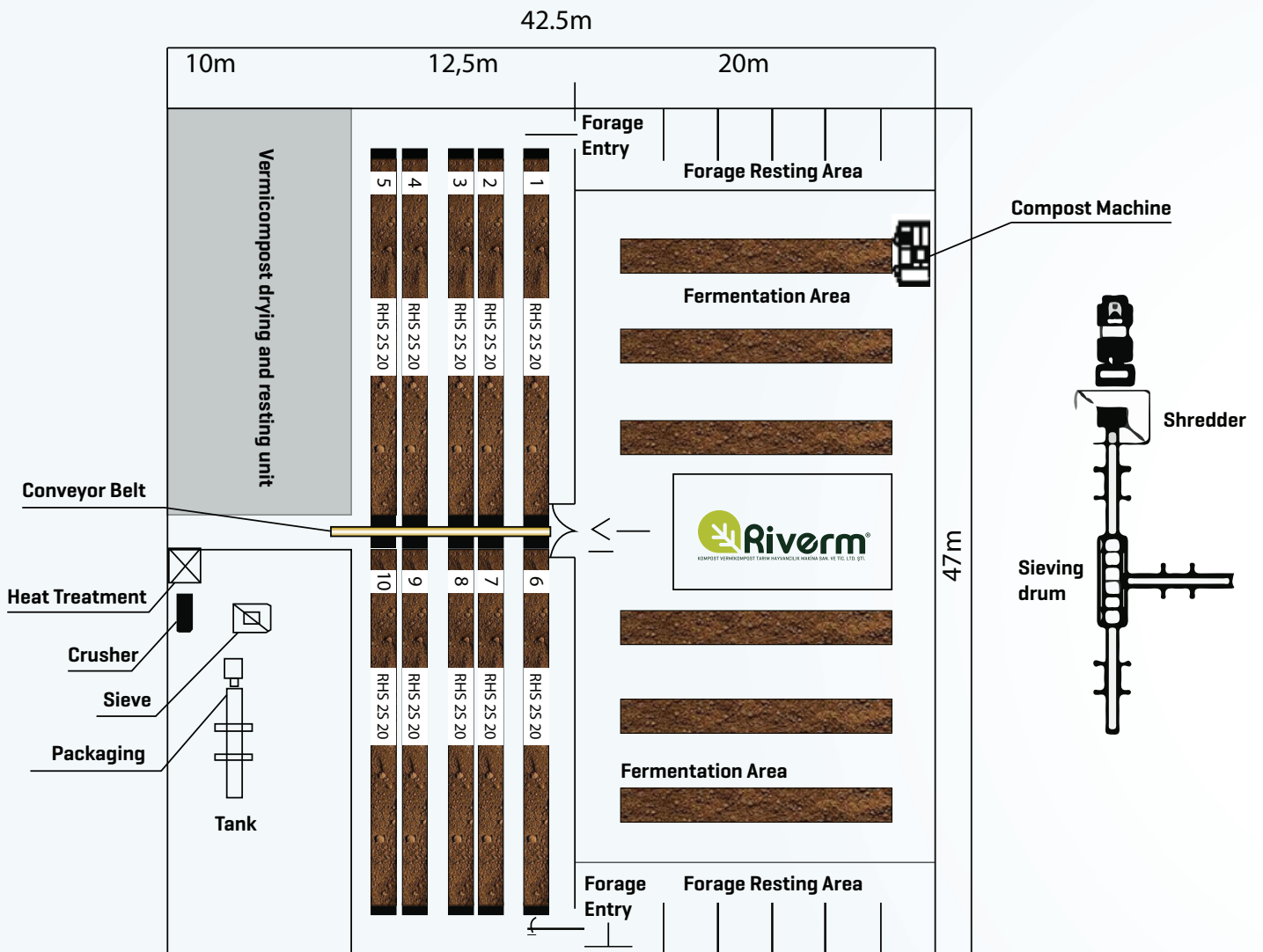
- * The worm bait is taken to the resting area to be kept in a hygienic environment until it cools down to be given to the worms.

2.1.2. WORM AND VERMICOMPOST PRODUCTION AREA

- * In the production area of worm and vermicompost, which is designed separately from the holding room, in 10 20 m Vermicompost Harvesting Systems (Rivo's Harvesting System RHS-2S/20), initially 250,000 to 375,000 adult worms are foreseen for each bed.
- * The number of production systems can be increased according to the need. (See Appendix: 4) 2.1.3. FEEDING
- * A mixture of semi-rotted (fermented) cattle excrement and a certain amount of domestic waste (we call it worm forage) is given to the beds at certain periods for 90 to 120 days to forage the worms and ensure that the beds are fully filled.
- * The amount of forage to be given in this process is estimated as 15 to 17 tons for each Vermicompost Harvesting System (Rivos's Harvesting System RHS-2S/20).
- * At the end of 90 to 120 days, the Vermicompost Harvesting System will be harvested from below and the first crop will be taken (Necessary training on this subject will be given by us.)As the first harvest, around 1 to 2 tons of vermicompost will be obtained.
- * In the following periods, 2 feedings and 1 harvest will be done every week and around a thousand kilograms of vermicompost will be obtained from each bed .



TECHNICAL DETAILS AND STANDARD SPECIFICATIONS	
Producer	Rivo's Technics
Model	Rivo's Harvesting System [RHS-X]
Blade	Laser cut [Chain-lifted monobloc]
Chain and Equipment	Double-sided traction system with fertilizer isolation
Board Specifications	Electronically controlled; digital temperature and moisture measurement; light and sound warning
Security	Three emergency stop buttons
STRUCTURAL SPECIFICATIONS	
Skeleton	Welded metal profile
Side Plates	PPM plastic
Design	3D CAD-based modular; multiples of 2.5 m
Sizes Between Outer Sides [RHS-2S/20]	13 m [w] x 20.9 m [l] x 1.2 m [h]
Colour	RAL 6005 moss green
CAPACITY	
Suggested Initial Worm Capacity [RHS-2S/20]	250,000
Full Worm Capacity [RHS-2S/20]	1,000,000
Total Vermicompost Capacity [RHS-2S/20]	18.5 cubic metres [±10%]
First Harvest	Within 3 to 6 months
Monthly Vermicompost Capacity [RHS-2S/20]	4.5-5 metric tonnes [moist]
OPTIONAL FITTINGS	
Conveyor Belt	41-m long [RHS-X/20], 2.5-mm thick rubber coating
Board Specifications	Remote monitoring, remote control through computer and mobile phone, PLC touch screen, temperature and moisture control system



2.1.4. FEEDING

- * The forage obtained from decomposed cattle feces is given to the beds at certain intervals for 120 to 180 days, ensuring that the worms are fed and the beds are filled.
- * In this process, the amount of forage has been estimated as 15 to 17 tons for each system (Rivos's Harvesting System RHS-2S/20) .
- * At the end of 90 to 180 days, the worm bed will be harvested from below and the first crop will be taken.(Necessary training on this subject will be provided by Riverm Ltd.) As the first harvest, around 1 to 2 tons of vermicompost will be obtained.
- * In the following periods, 2 feedings and 1 harvest will be made every week and around one and/or two tons of vermicompost will be obtained from each bed.

Note 1: Based on 38 weeks (first 14 weeks preparation and feeding period) at the end of the first year, approximately 38×1.5 tons = 57 tons of vermicompost will be obtained from a 20 m worm bed. If we start with 375,000 worms in the first year, considering the deaths and births, it is predicted that the number of worms in the bed will reach full capacity and the number of worms will increase to around 1,000,000.

Note 2: For the second year, around 78 tons of vermicompost will be taken from the same worm bed and since the number of reproducing worms will increase, the old worms will be trapped and taken out, and left to the culture beds for the continuation of reproduction.



SECTION 3

Heat Treatment - Drying

3.1. HEAT TREATMENT - DRYING

3.1.1. HEAT TREATMENT

- * Putting Heat Treatment at the exit in the resting room of the facility is by the relevant legislation of the Ministry of Agriculture. In other words, the product should be kept at 70 degrees for 1 hour in Heat Treatment in a clean area before entering the packaging.
- * Our recommendation is to apply this application to the semi-fermented worm forage so that the forage will have a range of pathogens and be free of weeds or seeds etc.
- * Heat Treatment capacity is recommended as 500-1000 kg. [Figure 7]



Figure 7. Heat treatment machine to be used in vermicompost facility

TECHNICAL DETAILS	
Producer	Rivo's Technics
Model	Rivo's Tray Heater (RTH-1)
Oven Net Dimensions	1.500 x 3.750 x 1.500 mm [± 20 mm]
Oven Outer Dimensions	1.850 x 4.250 x 2.250 mm ± [50 mm]
Oven Max. Operating Temperature	75 °C
Oven Power	380 V 100 kW
Oven Inner and Outer Coating	Galvanized Slab
Product Capacity	[~] 500 - 1.000 kg / hour
Control	PLC Record Control System
Electric Control Panel	It is mounted on the oven. Temperature control is provided by an electronic digital display thermostat. PLC system and computer connection are made. There is a timer that allows setting the heating time inside the oven. There are two heat probes for the oven heat system. While the first probe is for oven temperature control, the second probe is placed between the material in the tray. [Optionally, the number of probes can be increased.]
Heating the Oven	Air is blown between each shelf. There is a shelf system inside the oven. There are 10 compartments and 50 trays on the shelves. Each shelf can carry 100 kg and 5 trays can be placed. Heat is supplied to the interior of the furnace in a pressurized manner through the steam system (steam generator). Heat is protected by an insulation system. The oven door is insulated on both surfaces and locked from the center.

SECTION 4

Resting – Packaging - Storage

4.1. RESTING – PACKAGING - STORAGE

4.1.1. RESTING AREA

- * The vermicompost obtained is taken to the holding room which is designed separately from the production room and it is kept here for approximately 30 to 60 days (until the humidity reaches the maximum level of 35%), the moisture is tried to be removed.

4.1.2. CRUSHING AND FERTILIZER MILL

- * The particle size of the product is reduced by taking vermicompost, which is rested and freed from excess moisture, into the crushing unit.



Figure 8. Sifting machine to be used in vermicompost facility

4.1.3. SIFTING UNIT

- * Vermicompost with reduced particle size is passed through 0-3, 0-5 mm drum or vibration sieve.

4.1.4. PACKAGING UNIT

- * The vermicompost, whose all production processes are completed, is transferred to the packaging unit for filling in the desired weight or volume.

4.1.5. STORAGE UNIT

- * The properly packaged vermicompost is transferred to the storage unit ready to be put on the market.

! Issues to be Considered During Production:

- * Adjusting the humidity of the manure passed through the separator during composting
- * Ensuring the C / N ratio
- * It is necessary to apply a healthy heat treatment
- * Minimizing the risk of pathogen contamination after the heat treatment process
- * Ensuring proper humidity in bedding systems
- * Providing the temperature
- * Providing proper pH
- * The number of worms should be proportional to the size of the worm bed.
- * Appropriate and periodic feeding should be done
- * The desired moisture should be caught after cutting
- * Adjusting the particle size before packaging
- * Storage should be suitable



Figure 9. Packaging unit to be used in vermicompost facility

SECTION 5

**Vermicompost
(Worm Fertilizer)**

5.1. VERMICOMPOST (Worm Fertilizer)

5.1.1. PROPERTIES OF VERMICOMPOST

- * It is a highly productive type of fertilizer obtained from the excrement of worms such as Red California and European Nightcrawler, which are fed with bovine droppings and certain amounts of organic wastes.
- * It resembles black soil and is odorless.
- * It contains all the enzymes required for the development of the plant, soil antibiotics, vitamins and growth hormones.
- * Due to it is organic, it contains 5 times more nitrogen and potassium, 7 times more phosphorus and 2 times more calcium than chemical fertilizers.
- * It contains about 40 million microorganisms per gram. The most important are : Azotobacter, Clostridium, Nitrobacter, Nitrosomonas, and nitrosococcus.
- * It doesn't contain any chemicals.
- * It doesn't have any toxic effects on plants, animals and humans.
- * Absolutely free of pathogenic substances, parasite eggs, weed seeds and heavy metals.



5.1.2. BENEFITS OF NATURAL VERMICOMPOST

- * It ensures the continuity of sustainable agriculture by enriching and revitalizing the soil in organic matter care.
- * It is an organic product that regulates the pH balance, biological and physical structure of the soil.
- * By increasing the water holding capacity of the soil saves up to 40% of water and thus greatly reduces the risk of erosion.
- * When used regularly, the improvement process of the chemicals in the soil begins rapidly.* By balancing the micro and macro elements in the plant, accelerates the productivity and crop efficiency and increases the product yield up to 70%.
- * It positively changes the color and flavor of the plant by increasing the nutritional value of the plant. In this way, it provides safe, natural and ecological products.
- * It increases the plant's resistance to frost and protects from disease.
- * It prevents the contamination of underground water by keeping the washable plant nutrients by organic substances.



SECTION 6

What is Vermicompost Tea?



6.1. WHAT IS VERMICOMPOST TEA?

Vermicompost tea is the transfer of the extract and microorganisms in the worm fertilizer to the water.

Includes:

- * Enzymes and amino acids
- * Bacteria, fungi, protozoa (unicellular organisms) and beneficial nematodes
- * There are water-soluble nutrients and organically bound nutrients.

6.1.1. BENEFITS OF VERMICOMPOST TEA

- * These beneficial microorganisms and nutrients nourish and strengthen the plant .
- * It protects the roots and leaves of the plant against pests thanks to the bio-film layer formed on the plant.
- * Increases the feeding power of the plant and the yield of the crop.
- * It increases the drought resistance of the plant and reduces water use.
- * It regulates the soil and helps it return to its natural structure.
- * It increases the water-holding capacity of the soil.

!Note 1: The number and diversity of microorganisms depend on the quality of the vermicompost and tea machine used. If this system isn't used, the extract and microorganisms in the worm manure cannot pass into the water, cannot reproduce and survive.

!Note 2: It can be applied easily with drip irrigation, sprayer or back pump. Owing to the filter system, all particles and residues are collected and don't cause clogging.

6.1.2. VERMICOMPOST TEA MACHINE OF (Rivo's Compost Xtractor) TECHNICAL SPECIFICATIONS

- * With its high-quality stainless steel structure, it is suitable for long-term commercial use. It is the most advanced system among the existing systems.
- * Owing to its design, it is easier to use and clean than other methods.
- * Business doesn't require power, the whole process can be performed by one person.
- * Owing to its durable structure and engine, it can work 24/7.
- * The electrical system is designed for city electricity suitable and can be used anywhere.
- * It is designed for maximum efficiency. 7.5 kg of worm manure is sufficient to produce 850 liters of Vermicompost Tea.



Figure 10. Vermicompost Tea Machine

TECHNICAL DETAILS	
Producer	Rivo's Technics
Model	Rivo's Compost Xtractor [RWC-2]
Pipe Parts	PPRC Plastic Pipe
Reducer	220 V
Panel and Resistance	Optional
Transfer Pump	Adblue Pump
Framework	Aluminum Profile
Warranty Period	8 Months



SECTION 6

Why Worms?



7.1. WHY WORMS?

- * The first and most important reason why it is preferred in fertilizer production is that its digestive systems are much simpler and smaller than all other living things. Because the smaller the digestive system, the better fertilizer is obtained. This is one of the factors that make worm compost even more advantageous than barn manure.
- * Other reasons are that they consume forage quickly, multiply and easily adapt to their environment.
- * The feed that comes out of the worm's rectum is in the form of small granule coprolites. Coprolites contain humic substances that improve the aeration and water retention of the soil and increase its productivity by regulating its structure. Coprolites are also a source of continuous replenishment of fresh microbe generations of soil micro fluorine and a center of microbiological activity.
- * They progress by digging the soil and eating organic materials (plant and animal residues, soil bacteria, fungi, etc.) that are scattered in the soil. Thus, they enrich the soil in terms of organic matter and produce fertilizers with completely organic structures.
- * Earthworms increase the growth of cereal crops by 39%, seed yield by 35%, and the nitrogen content of the seed by 12%.
- * In the greenhouse studies, it has been determined that they significantly affect the plant yield and increase the quality of wheat and clover.
- * It has been demonstrated through experiments conducted in both laboratory and field conditions that earthworms support plant root development, significantly reduce the rate of root diseases, increase the quality of grains with meadow and crop yields (for example, protein content).



7.1.1. RED CALIFORNIA WORM (*Eisenia Fetida*)

- * They can produce up to 55% of their body weight. 2000 worms can produce an average of 1 kg of fertilizer per diem.
- * An average of 20° C is the ideal temperature for fertilizer production and reproduction. The optimal humidity required is 75% to 85%.
- * When suitable conditions are provided, they can live for an average of 5 years.
- * The number of adult worms increases approximately 10-20 times after 1 year.



7.1.2. EUROPEAN NIGHTCRAWLER WORM (*Eisenia Hortensis*)

- * This worm species is also known as *Dendrobaena Veneta*.
- * It is highly resistant to ambient conditions, especially cold. For this reason, it is the most preferred type of worm by fishermen to hunt fish living in cold waters.
- * 15 to 21° C is the ideal temperature for them to live, breed and produce fertilizers. The optimal humidity required is 75% to 85%.
- * The most important difference from the red California worm is that when there is no forage left on the surface, they descend deep into the ground in search of forage.
- * On average, they are fed as much as their own weight, grinding what they eat in a short time and turning it into fertilizer.
- * It has an 81.2% birth success rate. Each adult worm lays an average of 1 to 3 worm eggs per week, provided that ideal conditions are provided.





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