PROJECT ON DEVELOPMENT OF ORGANIC AGRICULTURE AND ALIGNMENT OF RELATED TURKISH LEGISLATION WITH THE EU ACQUIS

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ABBREVIATIONS & ACRONYMS

AAPT : Alternative Agricultural Production Techniques Department
AG : Agriculture
CFCU : Central Financing and Contracts Unit
DGAP : Directorate General for Agricultural Production and Development
DGAR : Directorate General for Agricultural Research
DGPC : Directorate General of Protection and Control
EAGGF : European Agricultural Guidance and Guarantee Fund
EC : European Commission
ECC : European Economic Commission
EN : European Norms
ETO : Ekolojik Tarim Organizasyonu Derneği (Association on Turkish Organic Agriculture)
EU : European Union
EUREPGAP : Euro Retailer Produce Working Group Good Agricultural Practices
FADN : Farm Accountability Data Network
FAO : Food and Agriculture Organisation of the United Nations
HACCP : Hazard Analysis at Critical Control Points
IFOAM : International Federation of Organic Agriculture Movements
ISO : International Standards Organization
JAS : Japanese Agriculture Standards
MARA : Ministry of Agriculture and Rural Affairs
MARA/HQ : Head Quarters: The group at the DGAP responsible for Organic Agriculture
MoFE : Ministry of Forestry and Environment
MS : EU Member State(s)
N/A : Not applicable
NGO : Non-governmental organization
NOC : National Orientation Committee
NPAA : National Programme for the Adoption of the Acquis
NRC : National Research Committee
NTC : National Trade Committee
OA : Organic agriculture
OAC : Organic Agriculture Committee
PU : Provincial organic unit
RTI : Regional and/or thematic institutes
SIS : State Institute of Statistics
SPO : State Planning Organisation
ToR : Terms of reference
TUBITAK/MAM: Turkish Scientific and Technical Research Council/Marmara Research Center
UFT : Undersecretariat for Foreign Trade
UNDP/GEF : United Nations Development Programme/Global Environmental Facility
1. Basic Information

1.1. :

1.2. Title : DEVELOPMENT OF ORGANIC AGRICULTURE AND LEGAL ALIGNMENT TO THE EU

1.3. Sector : Agriculture

1.4. Location : Turkey

1.5. Duration : 24 months

2. Objectives

2.1 Overall Objective

To enhance the sustainable development of organic agriculture and related sectors in Turkey in accordance with the EU acquis.

2.2 Project Purpose

To stimulate, promote, supervise and control the production, and processing of organic food and non-food products in Turkey in line with the EU legislation and practices.

2.3 Accession Partnership and NPAA Priority

Accession Partnership with Turkey (2003/398/EC)

- Priorities section “It is also important that Turkey fulfils the commitments of legislative approximation and implementation of the acquis in accordance with the commitments made under the Association Agreement, customs union and related decisions of the EC-Turkey Association Council, for example on the trade regime for agricultural products. It should be recalled that incorporation of the acquis into legislation is not in itself sufficient; it will also be necessary to ensure that it is actually applied to the same standards as those which apply within the Union.”

- Free Movement of Goods, short term “Continue efforts on food safety, including the progressive alignment with the acquis on foodstuff legislation, and set up or restructure as necessary institutional structures.”

- Agriculture, short term:
  - develop a strategy for the introduction of the Community rural development policy;
  - strengthen the human, technical and information resources of the relevant administrative, scientific, testing and inspection bodies; ensure enforcement of legislation;

- Agriculture, medium term:
- Set up the administrative structures required for the implementation of EC rural development policy
- Reorganise and strengthen the food safety and control system and upgrade its human, technical and financial resources to ensure that Community food safety standards are complied with.

National Programme on the Adoption of the Acquis (NPAA), 2003
Agriculture Section Priority 7.1.4 Organic Agriculture provides information about the recent amendments to the Implementing Regulation on the Principles and Implementation of Organic Farming with a view to alignment with corresponding EU Regulation. It also describes the requirement for a framework law for effective implementation and studies in that respect. It envisages amendment to Implementation Regulation in order to incorporate recent amendments made to the corresponding EU legislation.

With regard to institutional changes the priority envisages setting up of central and provincial organic farming units under Ministry of Agriculture and Rural Affairs, development of appropriate structures, Training of staff, setting up of an organic farming database at the central and local levels and link of the control and certification bodies to the network system and training of the personnel of the control and certification bodies.

2.4 National Development Plan

N/A

2.5 Cross Border Impact

N/A

3. Description

3.1. Background and Justification

3.1.1. Introduction

The demand for organic products is increasing all over the world since it helps to conserve the environment due to less intensive use of land, and promotes sustainable use of natural resources through the emphasis put on on-farm resources and mixed farming. Besides, organic production guarantees minimum residue levels of contaminants; traceability and consumer confidence through labeling that ascertains conformity to national or international standards, and through inspection and certification by independent bodies.

Organic agriculture started in Turkey with the demand of the European importers as a consequence of the enlargement of the European market in 1980’s. Since then, certified OA developed considerably in the country, from almost nil to some 103 000 hectares in 2003 (Annex 7), essentially due to private sector initiative and the umbrella organization ETO (Turkish Association on OA). A regulatory framework was provided by the 1994 Regulation dealing with organic agriculture, which identified MARA as the competent authority for this sector.

Despite the rapid developments of OA in EU and other countries, the overall rate of growth in Turkey has been relatively slow. For MARA to properly fulfill its leading role as the competent authority, there is an urgent need to strengthen itself nationwide, in order to be able to effectively implement the organic
legislation and to update it as necessary, including adjusting it to future developments of the EU Regulation.

As MARA decided to take on this role it chose to consult the private sector – including companies, NGOs and universities because of their experience. For this purpose 6 workshops were held from January till March 2004; results and recommendations are used in this proposal as well as in the national strategy and action plan on OA, which is currently being drafted. A short list of consulted organizations can be found in Annex 4.

The matters to be considered in the project are presented under 3 three headings, namely: legislation, institutional aspects and pilot projects.

3.1.2. Legislation

The Council Regulation (EEC) No. 2092/91 of 24 June 1991 on organic production of agricultural products has generated a domino effect on worldwide organic agriculture. Turkey, as an important exporter to the EU, has adopted a national regulation (24 December 1994/22145), which basically comply with EU Regulation 2092/91. This regulation was extensively amended and replaced, in 2002, by the Regulation on the Principles and Application of Organic Agriculture (July 2002/24812).

The new regulation reflects the changes and additions that had been made to the EU Regulation at the time of its adoption. On the other hand, in accordance with Article 11 paragraph 1(a) of Regulation 2092/91, Turkey has prepared and submitted a file to the EU, applying for third country status in June 1995 for the first followed by an updated application in 2003. A table comparing Turkish and EU regulations showing their overall consistency was prepared by MARA and provided to the European Commission at end of 2003.

While the existing Turkish regulation is generally in line with EU legislation but requires incorporation of latest amendments, it lacks a clear legal basis, as it was originally developed in the absence of legislative act governing organic agriculture. To fill this gap and provide a firm legal basis for the organization and enhancement of the organic sector, a framework law is currently being developed and is expected to be sent to the Parliament for adoption in 2004. The framework law will provide MARA with the necessary authority to amend and update organic agriculture regulations, as needed, in order to timely respond to future institutional, technical or scientific changes in the sector, as well as to adapt to future amendments to the EU Regulation. The framework law will also provide for penalties and sanctions, which are not spelled out in the current regulation.

3.1.3. Institutional aspects

MARA is responsible for policy development, initiation of legislative proposals and overall management of the organic system.

A preliminary assessment of institutional capacity (see section 3.5), carried out in 2002, particularly with regard to number of inspectors carrying out inspection and certification work on behalf of MARA clearly indicated the need of increasing substantially the number inspectors and training of them.

The MARA staff need to be fully informed about existing regulations and standards and their enforcement and well prepared to respond the requirements of other complementary issues which foresee a strong link with regard to quality and safety of food, such as Hazard Analysis at Critical Control Points (HACCP) or EUREPGAP.

MARA will require technical assistance and training to enhance the capacity of its staff in this evolving area in order to be able to keep abreast of the steady developments, which characterize this sector, and to
rapidly adjust to future changes as they occur. To this end, training modules focusing on the regulatory aspects of organic agriculture will need to be developed, tested and used under the project.

Implementation of Legislation

Implementation of organic agriculture legislation is destined to 3 institutional levels with the involvement of private certification bodies. Below are given some information about these and an identification of their institutional requirements:

- **Central team at MARA in Ankara (HQ):** the Alternative Agricultural Production Techniques Department and the Organic Agriculture Committee (OAC) representing relevant general directorates

  MARA at HQ was re-structured in August 2003 it employs a wider group on OA, with new task descriptions (Annex 8). The staff at HQ are newly involved in OA therefore have to be trained in legislative issues and the enforcement systems in order to lead OA in Turkey and execute in conformity to EU on day to day basis.

  Knowledge on policies and means to stimulate conversion of farms to OA is lacking at MARA headquarters. Also there is a need for raising awareness and improving the capacity with a view to the interaction of organic farming with rural development policy in EU.

  MARA HQ needs to improve knowledge on the current status as well as potentials of the OA sector in Turkey and thus develop sustainable policies in this field. It also needs a communication strategy and action plan for increasing the organic production.

- **Provincial units of MARA**

  During the period between 1996 and 2002 MARA in close cooperation with ETO and local universities has conducted several trainings on OA mainly focusing on general and basic principles of OA. Several trainings were directed at MARA HQ staff only.

  According to the new restructuring, organic teams were established in each of the 81 provinces. It is MARA’s intention to provide every PU with an OA team with at least 3 full time OA –officers in each of the provinces. In follow up of the earlier trainings more advanced training including more in-depth knowledge on specific topics on OA needs to be handled. A large majority of these will be involved in extension activities. Knowledge and experience with participatory extension methods is lacking and is deemed very important and conducive for realizing successful OA implementation.

  The OA teams at the provincial units are expected to be composed of staff that need experience in data collection, rules and regulations, agronomic and technical aspects, and control procedures in OA and on producers unions or farmers cooperatives unions. Strong focus will be given to train extension officers in the concept of Farmer Field Schools. The pilot projects are the instrument to provide practical training on this aspect.

- **Regional and/or thematic agricultural research institutions (RTI)**

  MARA holds approximately 40 Regional Thematic Institutes in Turkey. The core activity of these institutes is to provide technical information for MARA’s extension activities through applied technical research. A number of research projects focus on a crop or on optimization of a technique eg. soil fertility. With the existing infrastructure in place at the RTIs, a selective number – 10 institutes – will have to engage in developing technical information and demonstrations on OA in relation to the prevailing agro-ecological system or on specific organic products. They should perform as ‘knowledge centers’ at regional or thematic level. The expertise of the RTI staff from the 10 centers will need to be strengthened.
and will have to join in trainings with officers from the PUs on relevant topics related to OA. Next to this the centers will also be involved in guiding and supporting the pilot projects that will provide practical extension training for the extension officers from both PU and RTIs.

- **Inspection and certification (IC) Bodies**

MARA authorizes private and independent entities to carry out inspection and certification services. In Turkey, number of authorized IC bodies is six (4 of them are branches of European registered companies and 2 Turkish companies. The two Turkish companies can not issue certificates for exportation since they are not EN 17025 accredited. The fees demanded by the IC bodies are near each other and comparatively higher than many EU Member States. High cost of inspection and certification is one of the factors limiting the transition of individual farmers to the organic management system. Currently, exporters reduce this cost by preparing the so-called “projects” that group a certain number of farms within the same region and dividing the total cost to many farmers.

Finalization of international accreditation of TURKAK (Turkish Addreditation Agency) is very important for facilitating the formation of Turkish certification companies in this regard.

In Turkey, there are no subsidy programs for OF in Turkey thus, the competitiveness in the international or domestic market is reduced due to high IC cost. Reliable local IC companies should be led by providing the necessary information and guidance in getting accreditation. The MARA web-site gives the regulations and the lists however there is no information on the authorized inspectors, the information on the activities of the inspection bodies etc.

Given the requirements of the sector, Ministry should also provide farmers with up-to-date information about the authorized IC companies.

MARA staff should be well informed about the EU and worldwide legislation on accreditation. MARA should also prepare guidelines on how to get authorization for IC, guidelines for EN, EU and other accreditation schemes in order to increase the number of authorized IC companies, and thus promoting the organic production.

It is MARA’s intention to provide the entrepreneurs with necessary information on how IC companies can satisfy the requirements laid down in the conditions of standard EN 45011. Therefore, trained MARA staff is expected to provide necessary information on the principles of quality assurance to the EN 45011 standard in order to guide and promote IC companies. This trained staff also will take part in the inspection of IC companies with regard to whether these comply with the authorization criteria which is currentlt taken on the basis of the accreditation.

Currently certification bodies are obliged, by legislation, to submit regular reports to provincial directorates and organic Agriculture Committe. The reports should contain information on the the farmers, area used for organic production, information regarding inspections and any other information related with certicifation. Since the reports submitted in paper form it is difficult for MARA and particularly Organic Agriculture Committe to take any action with respect to enforcement of the Regulation. Therefore MARA needs to establish a network system where all MARA HQ, provincial directorates and certification bodies will access and input data regarding the organic farming activities thus facilitate the information collection and supervision of MARA on the organic farms, processors and any result of inspections carried out by the certification bodies. This will enable MARA to overview the sector and certification activities, take immediate action against those infringing the provisions of legislation and guarantee the production is in line with the requirements established (particularly assure the traceability) .
Increasing the organic production also necessitates the information to be provided to the farming community where extension services and farmers associations take a significant role. Therefore MARA needs to create a web page on which all stakeholders can find information on the organic production of different products developed, approved IC companies, guidelines, training tools etc.

3.1.4. Extension Services

The experience in extension within MARA for the OA staff on participatory approaches is limited and there are no facilities in place for MARA officials to practice these methods in the field. The pilot character of this extension approach will in the long term not only help the OA programme within MARA but can prove useful for application in conventional agriculture as well.

Developing and implementing pilot projects is regarded very important in terms of supporting the extension services on OA in order to provide sustainability.

Therefore Project foresees implementation of pilot projects. The RTIs will be used in this project as supportive organizations of 5 pilot projects that will aim at experimenting with farmer field schools (Annex 9). The pilot projects will hold 2 farm sites in an actual village setting in the field of activity of at least 1 RTI. At the pilot sites, provincial and regional extension officers will be trained on a participatory approach of training on OA.

3.2. Sectoral Rationale

Together with the projects submitted for 2004 National Programme, this project will significantly contribute to the activities devoted toward ensuring the food safety in Turkey (see section 3.5).

Taking into account the greater tendency towards to organic farming under agro-environment programmes, institutional capacity established could be used for controlling the implementation of agro-environment measures which is expected an important component of Rural Development Plan (see section 3.5).

Therefore there might be further studies on this subject depending on the outcome of other projects to be submitted for 2004 National Programme.

3.3. Results

1. Alignment of Turkish organic agriculture legislation and practices with those of EU, with a particular emphasis on EC Regulation no. 2092/91 and its amendments,
2. Strengthening the capacity of the Ministry of Agriculture and Rural Affairs as regards to the promotion, supervision and control of organic production and processing of organic food and non-food products in line with EU practices
3. Implementation of certification system in accordance with EU requirements and adjustment of certifying units
4. Collection and dissemination of organic farming information to farmers and thus contribute to food quality and environmental protection.

3.4. Activities

The activities are divided into two components:
3.4.1. **Technical Assistance for Legislative Alignment and Institutional Strengthening**

Following activities will be carried out by Technical Assistance team under this component:

**a) Legislation Related Activities (Result number 1):**

Activities under this sub-component covers not only alignment with EU legislation but also identification of any legislative instrument for promoting the organic farming practices in Turkey (such as legislative proposals for incentives in order encourage the organic farming practices):

- Assessment of current Turkish legislation on organic agriculture (gap analysis)
- Development of proposals for the necessary amendments or for the elaboration of new legislation for alignment with EU legislation (Regulation 2092/91) and their effective implementation
- Identification of a set of the actions necessary, including administrative and legislative instruments, to support organic agriculture policies and increase the organic production (such as incentives to be provided to farmers.)

**b) Institutional Strengthening (Result numbers 2, 3 and 4):**

Activities under this sub-component also concentrates on assisting MARA in developing instruments for providing farmers, processors of organic products, certification bodies and general public with easy access to information about organic farming methods, production standards, certification bodies and requirements, methods, in order to extend the organic production.

**Institutional Re-organisation and Training (Result number 2)**

Activities under this heading mainly covers the identification of institutional bodies to be involved in organic agriculture policy implementation and legislative enforcement and improvement of MARA staff knowledge and skills (particularly advisory skills) through training.

- Review and clarification of the mandates, roles and responsibilities of various ministerial departments and inter-agency committees involved with organic agriculture (in particular related to executive functions);
- Assistance in the establishment of an appropriate advisory and decision-making institutional mechanism for organic agriculture;
- Assistance in training of the all mandated bodies on re-organization of organic agriculture policy implementation (with a particular attention to the head of organic units);
- Assistance in the establishment of a network of learning centers on organic agriculture, including national research institutes (dealing with olives, cotton, animal health, aquaculture, plant protection, on-farm processing, greenhouse, field crops, medicinal and aromatic plants and beekeeping),
- Preparation of curricula and programmes for central MARA officers on: organic concepts; legislation and control; safety and quality of organic food and non-food products; extension methods and tools; support mechanisms for conversion; on-farm processing and marketing; and alternative farming systems.
- Preparation curricula for provincial (320) and regional (50) MARA officers on: organic concepts; legislation and control; training-of-trainers; Farmers-Field-Schools; distance-learning; farmers’ organizations and cooperatives; organizational aspects; project development;
- Production of training materials in line with the curricula and programmes prepared.
- Identification of a team composed of 20 staff who will become trainers
- Training of the team (training of trainers) on the basis of curricula developed
Control and Supervision of Inspection and Certification Bodies (Result numbers 2 and 3)

Activities under this heading cover mainly assistance to MARA in development of necessary standards in line with EU practices and tools for improving the control and supervisory functions of MARA over certification bodies and providing the Turkish certification bodies with easy access information about the certification system and accreditation:

- Review of organic agriculture and organic production standards with regard the list of allowed inputs as well as inspection, certification and accreditation requirements;
- Assistance in the harmonisation of testing methods, control procedures, supervision and accreditation together with efficient co-operation between all actors involved in the inspection system;
- Development of a detailed plan and inspection manual to be used for the supervision of the certification bodies by MARA;
- Training of MARA staff on the effective supervision of the certification companies (training of about 20 trainers);
- Prepare guidelines for a step-by-step plan towards the creation of internationally accredited Turkish organic certification bodies;
- Identification of a set of actions necessary for increasing the number of certification bodies in Turkey (including incentives);
- Development of tools to strengthen the internal audit system for organic inspection and certification;
- Production of materials developed (plans, manuals, guides);
- Organization of a on-the-job training programme for about 40 staff (20 trainers and 20 staff from regional units) in member states on implementation of certification, supervision, data management and accreditation aspects (for one week).

Pilot projects (Result number 4)

Pilot projects are envisaged to contribute to design decentralization of activities and to bring strength and potential of different state, professional and non-governmental organizations together to establish suitable media for training and data generation activities. The set of the activities, thus, include planning and implementation of pilot projects in 5 provinces outcomes of which will form the basis for extension services.

- Analysis of current situation in 5 pilot areas through the meetings with the participation of all stakeholders (MARA, farmers, NGOs, Research Institutes);
- Planning of 5 pilot projects and development of, in participation with local stakeholders and relevant research institutes, a detailed work plan for each of the 5 pilot projects to implemented in:
  - Adana: conversion of intensive horticulture production in wetland ecosystems;
  - Düzce: enterprise diversification through organic production and on-farm processing;
  - Erzurum: organic bee keeping and harvesting in the wild in forest and mountain ecosystems;
  - Izmir: organic greenhouse cultivations;
  - Kütahya: rainfed organic grain production in semi-arid ecosystems
in order to develop replicable results under different ecosystems with special focus on a specific activity in OA.

- Assistance in establishment of management and monitoring structures for implementation;
- Training of MARA and Research Institutes staff, that will take part in implementation, on management of project in accordance with work plan.
- Assistance in the implementation of pilot projects and their supervision.
• Development of a consolidated methodological approach and extension curricula (the training-of-trainers’ curricula) on Organic farmers-Field-Schools adapted to each of the 5 pilot areas as well as research centers which will become knowledge centers on specific organic practices.
• Production of training materials

Information Management and Communication (Result number 4)

Activities under this heading concentrates on assisting MARA in developing tools, for providing extension service staff, farmers, processors of organic products, certification bodies and general public with easy access to information about organic farming methods, production standards, certification bodies and certification requirements and methods that is necessary to promote the organic production activities. They will also include assistance in developing an organic assurance system through establishment of a database which enables the traceability of organic agriculture commodities.

It should be noted that the activities given below only covers technical assistance to the database development (design, development, testing and training on collection of data etc.) while supply of the equipment is covered under 3.4.2:

• Identification of information needs of different stakeholders (MARA, certification bodies, producers etc.)
• Development of a communication strategy on organic agriculture targeting producers of organic products.
• Identification of the criteria for the systematic collection of data on organic agriculture production and
• Definition of a codification system and database for the traceability of organic agriculture commodities
• Design, development, testing and installation of the appropriate database
• Development of an attractive and regularly updated MARA website (in both Turkish and English languages) on Organic Agriculture meeting the information requirements of all stakeholders and including the information elaborated as a result of the activities conducted above (such as up-to-date Turkish legislation; inspection manuals for MARA staff and harmonized rules for certification bodies; name and contact information of authorized certification bodies and their addresses; guidelines for certification bodies; results of pilot projects for guiding farmers and extension services; and any other material that is for the use of farmers community);
• Training of 100 staff on data and information collection, and database management

Means/Inputs
Technical Assistance in the form of consultancy is envisaged for this component.

Technical Assistance team will compose of:
− 1 EU legal adviser (5mm) and 1 Turkish Legal Adviser (6 mm) responsible for legal issues
− 1 EU Expert on accreditation (4 mm)
− 6 EU experts on organic farming techniques (for training of trainers and staff working on pilot project implementation (6 mm)
− 1 EU Expert responsible from institutional arrangements (2 mm)
− 2 EU experts for development of the database system and its installation and training (3mm)
− 1 EU expert on organic standard development (3mm)
− 1 EU expert on organic certification system (1mm)
− 1 EU expert on auditing (1mm)
− 1 EU expert on quality assurance (2 mm)
− 1 EU expert for design and supervision of pilot project implementation (7mm)
3.4.2. Supply of Equipment

As described in Section 3.1.3 MARA needs to establish a network system where all MARA HQ, provincial directorates and certification bodies will access and input data regarding the organic farming activities thus facilitate the information collection and supervision of MARA on the organic farms, processors and any result of inspections carried out by the certification bodies. This will enable MARA to overview the sector and certification activities, take immediate action against those infringing the provisions of legislation and guarantee the production is in line with the requirements established (particularly assure the traceability)

Therefore a database and network system will be established at MARA HQ. Access and connection of provincial units and certification bodies to the network system will be ensured via the database.

The equipment is also needed to guarantee the unified data collection for the control and supervision of the inspection and certification system, ensure the transparency of the system and protection of private information.

This component also include small number of office equipment (notebook, projector) that will be used in training to be delivered by the trainers.

The indicative list of equipment is given in Annex 12

Means/Inputs

One supply contract with an amount of €350,000.

3.5 Linked Activities

TR 0203.06: Support for Turkey’s alignment to the EU acquis in the phytosanitary field. The project aims to support MARA in order to facilitate the legislative process and to improve the administrative capacity of aligning the Turkish phytosanitary sector to EU rules and practices. One of the components of the project is pesticide registration and residual analysis. It foresees the adoption of relevant legislation in conformity with the acquis, and the improvement of the capacity of the concerned Turkish institutions to implement and enforce legislation in that area in line with the standards within the EU. The laboratories strengthened under the project is expected to be used during controls and supervision of organic farming activities.

The MEDA project “Support for Food Inspection Services in Turkey” (DG1A- D/MEDTQ/01-96) has started in the second quarter of 2002 for a total duration of 36 months. It aims at improving food inspection to EU standards by achieving mainly the following outputs:

- 9,250,000€ of laboratory equipment (Europeaid/114708/C/SV/TR) will be supplied to 15 Provincial Food Control laboratories belonging to the Ministry of Agriculture and Rural Affairs. This will create 6 Regional Laboratories capable of carrying out highly sophisticated analyses and 9 Secondary laboratories carrying out more routine analysis and microbiological testing.

- This quantity of equipment includes approximately 1,000,000€ of equipment which is destined for the National Food Reference laboratory but in the short term is to be used by the Ankara Provincial Food Control Laboratory.
The Project for Restructuring and Strengthening of the Food Safety and Control System in Turkey planned to be submitted for 2004 National Programme, include, among other activities for food safety and control, construction and establishment of a National Food Reference Laboratory (NFRL). This project will lead to the accreditation of NFRL which will exercise analytical quality control over all of the Provincial Food Control Laboratories which will conduct tests for IC companies and also take part in controls and supervision of organic farming activities.

Project on Preparation for the Implementation of EU Common Agricultural Policy, planned to be submitted for 2004 National Programme, particularly Project 2, includes elaboration of Turkish Rural Development Plan in line with Council Regulation No.1257/99. In line with the EU legislation, the Project envisages identification and elaboration of specific eligibility criteria for agri-environmental measures among where organic farming is the most regarded agri-environment measure in many Member States.

Framework Contract, 2002/12340, Support to the Turkish Authorities in Charge of Legislative Alignment to The Acquis in the Phytosanitary and Seeds Sectors, financed from EU-Turkey Administrative Cooperation Fund resources. The work carried out with regard to organic farming draws the attention to the inadequate number of inspectors currently carrying out inspection and certification work on behalf of MARA and need for a substantial increase in their number. It also underlines the necessity of provision of training for the personnel of Turkish Inspection bodies, which do not satisfy do not satisfy the requirements laid down in the conditions of standard EN 45011, in the principles of quality assurance to the EN 45011 standard, in order that their companies can achieve the standard as soon as possible.

Extension of Organic Agriculture Project financed from National Budget: Activities carried out by MARA through the national funds on the ongoing "Extension of Organic Agriculture” focusing on training and initiating research will support the planned activities of this project. This project helped to transfer funds for the improvement of infrastructure in the Izmir provincial control laboratory for the analysis of organic goods.

3.6 Lessons Learned

- The strength and the commitment of the private sector and NGO’s in Turkey is an important feature. It provides valuable experience and ample opportunities for MARA and other relevant Ministries to implement a market and environmental driven programme with several partners already in place. In order to consult with and collect information on the expectations and experience of all stakeholders active in organic production, i.e. government agencies, farming community, certification bodies, traders etc., six workshops were organized between January-March 2004. Therefore the project fiche prepared took into account outcomes of the workshops.

- An FAO-study implemented during 2001 and 2002 inventoried major forces that influence the growth of Organic Agri- and Aquaculture in both developing and developed countries. Several lessons as establishing and enforcing a organic guarantee system, development of national action plans, training farmers recognition and application of indigenous knowledge and experiences, development of a domestic market as compared to promoting export, and vocational education as well as research related to organic agriculture, trade and industry are described that are relevant to Turkey. Where relevant, this project will apply these lessons.

- European countries introduced support schemes on national or regional basis between 1987 and 1993 before the start of the general agri-environment measures. The lessons learned in the MS or those in accession will provide direct input to develop a strategy for promotion of organic agriculture in Turkey.

- The European Commission is currently in the process of preparing a European Union Action Plan for Organic Food and Farming. This document represents several lessons that can be collectively used to benefit collective European and national activities. The final Action Plan will be approved
and accepted by the European Council and Parliament in 2005. The draft document is used by MARA in preparing this proposal and will be referred to during the implementation of the project.

- Although not integrated in this proposal, the relevance of agricultural education is important. Lessons from other countries show that organic farmers are most successful in those countries where vocational and higher training is present. The proposal gives as much as possible attention to putting in place proper agricultural extension mechanisms within MARA. Extra budgetary requirements outside of the scope of this proposal will be needed however to cater to other educational investments for the organic agricultural sector.

4. **Institutional Framework**

MARA is the main responsible authority for drafting and enforcement of legislation concerning organic agriculture. Institutional framework regarding implementation of organic agriculture policy is is given in Annex together with explanation The departments in charge and connected to this project are shown in Annex 9. The primary actors and the related chain of command in MARA are shown in color. Parties secondary are shown in white. Among these are parties that are represented in the Organic Agriculture Committee in MARA or parties that will be consulted like the private sector, NGOs and farmers through advisory committees.

The AAPT Department will be the general body that will develop the overall strategies and plans in consultation with OAC for the OA. The project will be coordinated by the Project Coordinator details of contact is given in Section 6.1.

As being the Head of AAPT, the project coordinator will be responsible from daily management of this project. He will chair weekly to monthly meetings take place among a team of 15 staff. He will directly report to the Director General for DGAP who is the final authority in taking decisions on legislation proposals, any necessary action for effective implementation of project, signing official letters and approving the reports.

A Memorandum of understanding needs to be signed with some of the institutions as stated in the logical framework.

5. **Detailed Budget**

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>EC SUPPORT (EURO)</th>
<th>TOTAL</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Investment</td>
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</tr>
<tr>
<td></td>
<td>Support</td>
<td>Building</td>
<td>(I+IB)</td>
</tr>
<tr>
<td></td>
<td>Year 1</td>
<td>Year 2</td>
<td>Year 2</td>
</tr>
<tr>
<td>Contract 1- Technical Assistance</td>
<td>1-</td>
<td>910.000</td>
<td>910.000</td>
</tr>
<tr>
<td>Contract 2-Supply</td>
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<td>262.500</td>
<td>87.500</td>
</tr>
<tr>
<td>TOTAL</td>
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<td>910.000</td>
<td>1,172.500</td>
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<tr>
<td>TOTAL</td>
<td>262.500</td>
<td>910.000</td>
<td>1,172.500</td>
</tr>
</tbody>
</table>

*Contract 2 for investment support (technical specifications in Annex 12) and is only valid for the budget item supply of equipment (with a breakdown in Annex 11). All the other budget lines are for service and will be included in the Contract 1.
6. **Implementation Arrangements**

6.1. **Implementing Agency**

The CFCU will be the implementing agency and will be responsible for all procedural aspects of the tendering process, contracting matters and financial management, including payment of project activities. The Director General of the CFCU will act as PAO of the project. His contacts are:

Mr. Nuri Ercan Tortop  
Programme Authorising Officer  
Central Finance and Contracts Unit  
Tel: + 90 312 285 46 20  
Fax: + 90 312 285 96 24  
E-mail: ercan.tortop@cfcu.gov.tr

The Beneficiary of this project will be the Ministry of Agriculture and Rural Affairs. The responsible agency in MARA is DGAP. The contact details of the project coordinator for the beneficiary are as follows:

Mr. Salih Zeki Yildiz  
Department head  
Department of Alternative Agricultural Production Techniques  
Directorate General of Agricultural Production and Development  
Milli Müdafa Cad. 20  
Ankara/TURKEY  
Tel: 0 312 418 02 84  
Fax: 0 312 417 0026

6.2. **Twinning**

Not applicable

6.3. **Non-standard Aspects**

There are no non-standard contracting or tendering procedures foreseen.

6.4. **Contracts**

The project will comprise two sets of contracts:  
Contract 1: Services, 2005, (€ 910.000)  
Contract 2: Supply of equipment , 2005 (€350.000)

7. **Implementation Schedule**

The following schedule is anticipated for implementing the components set out above in:
Component | Start of Tendering | Start of Project Activities | Project Completion
--- | --- | --- | ---
Contract 2-Supply of Equipment | October 2004 | June 2005 | September 2005

8. Equal Opportunity

The project will comply with the European Commission’s equal opportunity policy. Selection of trainees, staff and other personnel to work on the projects will be based on objective assessments of qualification and experience with fair representation of women and men. Currently, the staff at MARA involved in organic agriculture at Alternative Agricultural Production Department including senior staff largely (8/15) are women.

9. Environment

Given the character of OA the project implicitly favors environmentally safe production in the agricultural sector and focus specifically on environmentally fragile regions and contributes to the preservation of biodiversity. It is expected that the project will have an extremely positive impact on biodiversity, flora and fauna. A need for environmental screening is not necessary.

10. Rates of Return

N/A

11. Investment Criteria

11.1. Catalytic Effect

The project will create an adequate infrastructure and rapid and direct link between MARA HQ and provinces, required for the enforcement of the regulations that comply with the EU and necessary for the agricultural acquis. It is foreseen that the project will favour a considerable number of follow-up investments and activities related to organic agriculture production, collection, packing, transportation, distribution, inspection and certification. In particular the development of the domestic market is aimed providing employment and extra income for several sectors in the rural and urban areas.

11.2. Co-financing

The Turkish government will provide 25 % co-financing of the investment cost. Co –financing of services is done in kind by offering work forces at HQ, at provincial directorates and regional/thematic institutes as well as related infrastructure and logistical inputs.

11.3. Additionality

EC funds provided under this Project shall not displace other financial support especially from the sector or international donors.

The parliament is expected to adopt during year 2004 a framework law on organic agriculture which will allow MARA to decide upon ad hoc quick adaptation and focalization of the law depending on the local circumstances and situations; such flexibility and authority will be crucial as the organic agriculture systems are characterized by frequent changes.
11.4. **Project Readiness and Size**

Technical studies including the consultation with the private sector and NGOs is ready and will allow fast processing of an eventual financing of the Project by the European Commission.

11.5. **Sustainability**

The overall objective of the project is to achieve long term sustainability in Turkish agriculture by implementing environmentally friendly techniques under EU compliant legislation through capacity building in organic farming.

MARA has been involved in training on general principles of organic agriculture since 1997 and on special issues since 2001 but focused on training of Central officers mainly. This time the training reaches out to all provinces. What are crucial are the sustained positions of those officers trained in OA. As the selection of trainees will be done always in pairs and as the total numbers of staff are high the impact and chance for success is expected to be high.

The pilot projects practicing participatory approaches with farmers and farmer groups will enhance a new way of sustaining new knowledge and insights in both the MARA institution as well as on farmers level.

11.6. **Compliance with State Aids Provisions**

N/A

12. **Conditionality and Sequencing**

The draft framework law is sent to the Parliament for adoption is conditional for starting the project activities.

All activities, except pilot project implementation, will be carried out simultaneously. Pilot projects will be carried out after initial studies are completed during the first year of the project.

**ANNEXES**

*Compulsory*
1. Logframe in the standard format
2. Detailed implementation chart
3. Contracting and disbursement schedule by quarter for full duration of programme
4. Reference list of feasibility/prefeasibility studies
5. Reference list of relevant laws and regulations
6. Reference list of strategic plans and studies

*Not compulsory*
7. National Data on OA in Turkey
8. Organogram of MARA with regard to Organic Agriculture
9. Organogram showing Chain of Command in MARA in relation to the project
10. Information on Pilot Projects
11. Detailed breakdown of budget
12. Budget and technical specification on investments
## ANNEX 1 TO PROJECT FICHE

### LOGFRAME PLANNING MATRIX FOR

**Development of Organic Agriculture and Legal Alignment to the EU**

<table>
<thead>
<tr>
<th>Overall objective</th>
<th>Objectively verifiable indicators</th>
<th>Sources of Verification</th>
<th>Assumptions</th>
</tr>
</thead>
</table>
| To enhance the sustainable development of organic agriculture and related sectors in Turkey in accordance with the EU *acquis* | • Turkey included in third countries list of EC Regulation no. by 2006  
• Area used for Organic production increased by 25%.  
• Turkey’s organic product exports increased 25% | – Official Journal of European Communities  
– Commission Regular Reports for 2005 and onwards  
– Foreign Trade Statistics published by SIS, SPO and UFT  
– Annual MARA Reports | – DG SANCO inspection recommendation is positive  
– Farmers eager to convert to Organic Farming  
– Extension services satisfactory  
– Incentive schemes for OA conversion in place |

<table>
<thead>
<tr>
<th>Project purpose</th>
<th>Objectively verifiable indicators</th>
<th>Sources of Verification</th>
<th>Assumptions</th>
</tr>
</thead>
</table>
| To stimulate, promote, supervise and control the production, and processing of organic food and non-food products in Turkey in line with the EU legislation and practices | • A reliable organic guarantee system in line with EU legislation and practices in place by 2006 as envisaged by NPAA  
• Effective national organic certification system in place and number of inspections over certification companies increased by 100%.  
• 2 Turkish Certification companies accredited by the 2nd half of 2007  
• Number of farmers involved in organic activities increased by 25% | – MARA documentation on web-page  
– Monitoring Committee reports  
– Certification companies’ reports to MARA | |

<table>
<thead>
<tr>
<th>Contracting period expires</th>
<th>Disbursement period expires</th>
</tr>
</thead>
</table>
| Programme name and number | Total budget: € 1,260,000  
EC Assistance budget: € 1,172,500 |


<table>
<thead>
<tr>
<th>Results</th>
<th>Objectively verifiable indicators</th>
<th>Sources of Verification</th>
<th>Assumptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Alignment of Turkish organic agriculture legislation and practices with those of EU, with a particular emphasis on EC Regulation no. 2092/91 and its amendments,</td>
<td>• Legislation alignment completed by 2006 Turkish organic standards meet international requirements and national conditions by 2006</td>
<td>- Turkish Official Gazette reports - Monitoring Committee reports - Reports by TA</td>
<td>- Continued commitment towards Turkey’s accession to EU</td>
</tr>
<tr>
<td>2. Strengthening the capacity of the Ministry of Agriculture and Rural Affairs as regards to the promotion, supervision and control of organic production and processing of organic food and non-food products in line with EU practices</td>
<td>• Means to support organic agriculture policies integrated in organic legislation by end of 2006 • A National Organic Agriculture Advisory Committee established and functioning by 2006 • Training team of 20 staff identified and trained as trainers in 2005 • 370 MARA staff trained on features of organic agriculture, legislation, inspection, data collection and management and supported by other implementation tools (manuals, handbooks) by the 2nd half of 2007 • Access of farmers, certification bodies and MARA staff to an up-to-date MARA/AAPT website on Organic Agriculture in English and Turkish offering information and virtual services ensured by the 2nd half of 2007 • A database and network between MARA HQ, provincial directorates and certification bodies established and fully functional by 2007. • Five handbooks on major OA topics in place for MARA and farmer community by the 2nd half of 2007 • Training methodology and curricula on organic agriculture for 5 agro-ecological areas available at MARA by 2nd half of 2007 • 200 farmers have received training in Organic Farmers-Field-Schools by the 2nd half of 2007</td>
<td>- Monitoring Committee reports - Reports by TA - Training certificates - Documentation of MARA on Organic Farmin web-page - Number of visitors to the MARA web-site</td>
<td>- MARA and trained trainees commit to sustain the trainee positions for 5 years - TURKAK internationally accredited - 2 Turkish certification companies meets accreditation criteria - Increased enterpreneurship towards establishing certification companies - Organic farming community participation is high with regard to data collection</td>
</tr>
</tbody>
</table>
3. Implementation of certification system in accordance with EU requirements and adjustment of certifying units

- Guidelines for accreditation of certification companies ready by 2007
- Training team of 20 staff identified by 2006 and trained as trainers in 2006
- Inspection manuals for supervision of certification companies prepared in 2006

- Monitoring Committee reports
- Reports by TA
- Training certificates
- Documentation of MARA on Organic Farming web-page

4. Collection and dissemination of organic farming information to farmers and thus contribute to food quality and environmental protection.

- 100 MARA staff trained on data collection and management by 2007
- Access of farmers, certification bodies and MARA staff to an up-to-date MARA/AAPT website on Organic Agriculture in English and Turkish offering information and virtual services ensured by the 2nd half of 2007
- A database and network between MARA HQ, provincial directorates and certification bodies established and fully functional by 2007.

- Monitoring Committee reports
- Reports by TA
- Training certificates
- Documentation of MARA on Organic Farming web-page
- Number of visitors to the MARA web-site

### Activities

<table>
<thead>
<tr>
<th>1. Technical Assistance for Legislative Alignment and Institutional Strengthening</th>
<th>Service Contract for Technical Assistance</th>
<th>Budget for Service Contract: € 910,000</th>
</tr>
</thead>
</table>

#### Legislation Related Activities (Result no. 1)
- Assessment of current Turkish legislation on organic agriculture (gap analysis)
- Development of proposals for the necessary amendments or for the elaboration of new legislation for alignment with EU legislation (Regulation 2092/91) and their effective implementation
- Identification of a set of the actions necessary, including administrative and legislative instruments, to support organic agriculture policies and increase the organic production (such as incentives to be provided to farmers,)

#### Technical Assistance Team
- 1 EU legal adviser (5mm)
- 1 Turkish Legal Adviser (6 mm)
- 1 EU Expert on accreditation (4 mm)
- 6 EU experts on organic farming techniques (6 mm)
- 1 EU Expert responsible from institutional arrangements (2 mm)
- 2 EU experts for development of the database system and its installation and training (3mm)
- 1 EU expert on organic standard

#### Assumptions
- Continued commitment towards Turkey’s accession to EU
- Timely recruitment of TA team
- Legislative proposals accepted by MARA
- Memorandum of Understanding signed between MARA, State Institute of Statistics and Under Secretariat for Foreign Trade regarding OA data collection
## Institutional Re-organisation and Training

(Result no. 2)

- Review and clarification of the mandates, roles and responsibilities of various ministerial departments and inter-agency committees involved with organic agriculture (in particular related to executive functions);
- Assistance in the establishment of an appropriate advisory and decision-making institutional mechanism for organic agriculture;
- Assistance in training of the all mandated bodies on re-organization of organic agriculture policy implementation (with a particular attention to the head of organic units);
- Assistance in the establishment of a network of learning centers on organic agriculture, including national research institutes (dealing with olives, cotton, animal health, aquaculture, plant protection, on-farm processing, greenhouse, field crops, medicinal and aromatic plants and beekeeping),
- Preparation of curricula and programmes for central MARA officers on: organic concepts; legislation and control; safety and quality of organic food and non-food products; extension methods and tools; support mechanisms for conversion; on-farm processing and marketing; and alternative farming systems.
- Preparation curricula for provincial (320) and regional (50) MARA officers on: organic concepts; legislation and control; training-of-trainers; Farmers-Field-Schools; distance-learning; farmers’ organizations and cooperatives; organizational aspects; project development;
- Production of training materials in line with the curricula and programmes prepared.
- Identification of a team composed of 20 staff who will become trainers
- Training of the team (training of trainers) on the basis of curricula developed
  
  - 1 EU expert on organic certification system (1mm)
  - 1 EU expert on auditing (1mm)
  - 1 EU expert on quality assurance (2 mm)
  - 1 EU expert for design and supervision of pilot project implementation (7mm)

## Timely employment of sufficient manpower at central and decentralized levels to operate and maintain the OA information systems

- Willingness of a sufficient number of neighbouring farmers to participate to the Farmers-Field-Schools of the pilot projects
<table>
<thead>
<tr>
<th>Control and Supervision of Inspection and Certification Units (Result No. 2&amp;3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Review of organic agriculture and organic production standards with regard to the list of allowed inputs as well as inspection, certification and accreditation requirements;</td>
</tr>
<tr>
<td>- Assistance in the harmonisation of testing methods, control procedures, supervision and accreditation together with efficient cooperation between all actors involved in the inspection system</td>
</tr>
<tr>
<td>- Development of a detailed plan and inspection manual to be used for the supervision of the certification bodies by MARA</td>
</tr>
<tr>
<td>- Training of MARA staff on the effective supervision of the certification companies (training of about 20 trainers)</td>
</tr>
<tr>
<td>- Prepare guidelines for a step-by-step plan towards the creation of internationally accredited Turkish organic certification bodies;</td>
</tr>
<tr>
<td>- Identification of a set of actions necessary for increasing the number of certification bodies in Turkey (including incentives)</td>
</tr>
<tr>
<td>- Development of tools to strengthen the internal audit system for organic inspection and certification;</td>
</tr>
<tr>
<td>- Production of materials developed (plans, manuals, guides)</td>
</tr>
</tbody>
</table>

Organization of a on-the-job training programme for about 40 staff (20 trainers and 20 staff from regional units) in member states on implementation of certification, supervision, data management and accreditation aspects (for one week)

Pilot projects (Result no.4)

| - Analysis of current situation in 5 pilot areas through the meetings with the participation of |
all stakeholders (MARA, farmers, NGOs, Research Institutes)

- Planning of 5 pilot projects and development of, in participation with local stakeholders and relevant research institutes, a detailed work plan for each of the 5 pilot projects to implemented in:
  - Adana: conversion of intensive horticulture production in wetland ecosystems;
  - Düzce: enterprise diversification through organic production and on-farm processing;
  - Erzurum: organic bee keeping and harvesting in the wild in forest and mountain ecosystems;
  - Izmir: organic greenhouse cultivations;
  - Kütahya: rainfed organic grain production in semi-arid ecosystems

in order to develop replicable results under different ecosystems with special focus on a specific activity in OA.

- Assistance in establishment of management and monitoring structures for implementation;
- Training of MARA and Research Institutes staff, that will take part in implementation, on management of project in accordance with work plan.
- Assistance in the implementation of pilot projects and their supervision
- Development of a consolidated methodological approach and extension curricula (the training-of-trainers’ curricula) on Organic farmers-Field-Schools adapted to each of the 5 pilot areas as well as research centers which will become knowledge centers on specific organic practices.
- Production of training materials
Information Management and Communication (Result no.4):
- Identification of information needs of different stakeholders (MARA, certification bodies, producers etc.)
- Development of a communication strategy on organic agriculture targeting producers of organic products.
- Identification of the criteria for the systematic collection of data on organic agriculture production and
- Definition of a codification system and database for the traceability of organic agriculture commodities
- Design, development, testing and installation of the appropriate database
- Development of an attractive and regularly updated MARA website (in both Turkish and English languages) on Organic Agriculture meeting the information requirements of all stakeholders and including the information elaborated as a result of the activities conducted above (such as up-to-date Turkish legislation; inspection manuals for MARA staff and harmonized rules for certification bodies; name and contact information of authorized certification bodies and their addresses; guidelines for certification bodies; results of pilot projects for guiding farmers and extension services and any other material that is for the use of farmers community);
- Training of 100 staff on data and information collection, and database management

2. Supply of Equipment

| Procurement of IT system (hardware and software) for organic farming database and network for information management and some office equipment to be used in training | 1 supply contract | € 350,000 |
**Preconditions**

The draft framework law sent to the Parliament in 2004 for adoption.
## ANNEX 2
### DETAILED PROJECT IMPLEMENTATION CHART

<table>
<thead>
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<th>Component</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>2007</th>
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</thead>
<tbody>
<tr>
<td>1) Technical Assistance for Institutional Strengthening</td>
<td>C C C C C C</td>
<td>I I I I I I</td>
<td>I I I I I I</td>
<td>I I I I I I</td>
</tr>
<tr>
<td>2) Supply of equipment</td>
<td>C C C C C C</td>
<td>I I I</td>
<td>I I I</td>
<td>I I I</td>
</tr>
</tbody>
</table>

| Tendering and Contracting                      | C    |
| Implementation and Payments                   | I    |
### ANNEX III
CONTRACTING AND DISBURSEMENT SCHEDULE (quarterly-in euro)

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<tbody>
<tr>
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<tr>
<td>Technical Assistance</td>
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<td>159.250</td>
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<td><strong>Cumulated</strong></td>
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<td>1.100.750</td>
<td>1.100.750</td>
<td>1.260.000</td>
</tr>
</tbody>
</table>
ANNEX 4. REFERENCE LIST OF FEASIBILITY/PREFEASIBILITY STUDIES

4.1. List of consultation workshops held in different regions of Turkey, in preparation of the OA strategy and action plan

<table>
<thead>
<tr>
<th>Topic of the Workshop</th>
<th>Date</th>
<th>Place</th>
<th>Available Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Workshop on Development of Organic Agriculture in Turkey and Alignment of Related Turkish Legislation</td>
<td>21-22 January 2004</td>
<td>State Institute of Statistic, Conference Hall, ANKARA</td>
<td>Yes</td>
</tr>
<tr>
<td>2. Workshop on the Potential, Problems and Solution Proposals For Organic Agriculture in The Eastern Anatolian Region</td>
<td>19 February 2004</td>
<td>Palan Hotel, ERZURUM</td>
<td>Yes</td>
</tr>
<tr>
<td>3. Workshop on Protection of Biodiversity and Development Of Organic Agriculture on Dry Farming Land</td>
<td>1 March 2004</td>
<td>Tütav Thermal Hotel and Curing Centre, KUTAHYA</td>
<td>Yes</td>
</tr>
<tr>
<td>4. Workshop on Development of Organic Agriculture in Wetlands</td>
<td>8 March 2004</td>
<td>Seyhan Otel, ADANA</td>
<td>Yes</td>
</tr>
<tr>
<td>5. Guarantee Systems in Organic Agriculture and Organic Aquaculture Workshop</td>
<td>15-16 March 2004</td>
<td>Aegean University, Faculty of Agriculture, IZMIR</td>
<td>Draft</td>
</tr>
</tbody>
</table>
4.2. List of the NGO’s and Civil Society Organizations Participated to the 6 Workshops Organized

1. ETO (Turkish Association on Organic Agriculture)
2. Ankara Region Chamber of Veterinarians
3. Istanbul Exporters’ Union
4. Aegean Exporters’ Union
5. Aegean Dried Fruits Exporters’ Union
6. Central Union of Agriculture Credit Cooperative
7. General Directorate of Trakya Union of Agricultural Sales Cooperatives
8. General Directorate of Kozabirlik Union of Cotton Agricultural Sales Cooperatives
9. Turkish Union of Agricultural Engineers
10. Turkish Association of Seed Industry
11. Chamber of Agricultural Engineers
12. OR-KOOP Central Union of Forest Cooperatives
13. Association of Consumers’ Rights
14. Clean World Natural Life Association
15. Bey.Meat Industry and Breeders Union
16. Turkish Foundation for Prevention of Erosion (TEMA
17. Turkish Union of Chambers and Bourses (TOBB)
18. Foundation for Leukaemia (LOSEV)
19. Union of Milk and Meat Producers (SETBiR)
20. Association of Ankara Cooperative Entrepreneurship (Ankara Gucbirligi Girisim
21. Sustainable Agriculture Association (Surdurulebilir Tarim
22. Tema Irrigation Systems and Organic Agriculture
23. General Directorate of Union of Hazelnut Agricultural Sales Cooperatives
25. ECOCERT
26. IMO
27. EKO-TAR
28. SKAL International
29. ETKO
30. BCS Oko-garantie
31. Dogan Company for Organic Products (Doğan Organik Urunler)
32. Kultur Ekolojik Zir.Muh.Ltd.
33. Marmarabirlik Agricultural Sales Cooperatives
34. Filiz Gida
36. Rapunzel
37. Good Food Foundation
38. TARiS Union of Agricultural Sales Cooperatives
39. Oztiryaki
40. TISM
41. Ondata Computering Systems
42. GMC
43. ASDF Fair organization
44. Exandas Consultancy
45. Beypazari Municipality
46. Mergen Food Company
47. Sebat Ticaret
48. Yildiz Holding
49. Alara Tarim Ur.
50. ROSS BREEDERS
51. Ecological Agriculture Association (Ek.Tar.Ur. C.K.Dernegi)
52. Sunder LTD Company
53. PAR Consultancy
54. Yasar Holding A.S
55. Orcev Tarim
56. AGG A.S.
57. Hipp D.Ticaret
58. Bidas
59. Neolife
60. Pan Tarim
61. Orhan Food Company
62. Isik Tarim
63. Migros
64. Çamli Yem Bes.
65. EKODIST Organic Products
66. Aksu Vital
67. Organik Gida A.Ş.
68. Beta Ziraat
69. Orkan Gida
70. Erzurum Union of Bee Keepers
71. Ibrahim Aksaz Wild Life Conservation Association
ANNEX 5- REFERENCE LIST OF RELEVANT LAWS AND REGULATIONS


Amendments:

- Commission Regulation (EEC) No 1535/92
- Council Regulation (EEC) No 2083/92
- Commission Regulation (EEC) No 207/93
- Commission Regulation (EEC) No 2608/93
- Commission Regulation (EC) No 468/94
- Council Regulation (EC) No 1468/94
- Commission Regulation (EC) No 2381/94
- Commission Regulation (EC) No 1201/95
- Commission Regulation (EC) No 1202/95
- Council Regulation (EC) No 1935/95
- Commission Regulation (EC) No 418/96
- Commission Regulation (EC) No 1488/97
- Commission Regulation (EC) No 1900/98
• Commission Regulation (EC) No 223/2003
• Commission Regulation (EC) No 599/2003
• Commission Regulation (EC) No 806/2003
• Commission Regulation (EC) No 599/2003
• Commission Regulation (EC) No 2277/2003

REPUBLIC OF TURKEY:

• REGULATION ON PRINCIPLES and APPLICATION OF ORGANIC FARMING of 24 December 1994 Official Gazette No. 22145
• The comparative table of the provisions in the European Union and the provisions in Turkey is prepared by MARA/DGAP-AAPT and sent to the EU. This comparative table displays the comparison of respective articles as identical, similar, not comparable, not relevant, less strict or more strict articles and their equivalency as equivalent, not equivalent and not relevant (Annex 9).
ANNEX 6. REFERENCE LIST OF STRATEGIC PLANS AND STUDIES

A Study on alternative agricultural practices in the sensitive Zone of the Göksu Delta Protected Special Area


Grece-Turquie: Agriculture Durable sur deux Rives de la Mediterranee, Geyser (Christophe Beau), no 84, 1996.

Improving quality and safety and reduction of costs in the european Organic and ‘Low Input” food supply chains coordinated by University of Newcastle (Gr. Br.) and FiBl (CH), March 2004 (http://www qlif.org)


Annex 7. National Data on OA in Turkey

<table>
<thead>
<tr>
<th>Estimated 2003</th>
<th>Production Area (ha)</th>
<th>National Production volume as raw material (tons)</th>
<th>Export Volume as Final Product (tons)</th>
<th>Number of organic companies</th>
<th>Number of Products</th>
<th>Export Value (million $)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OA Sector</strong></td>
<td>103 016</td>
<td>359 131</td>
<td>21 083</td>
<td>13 016</td>
<td>170 (raw material) 300 (final product)</td>
<td>36</td>
</tr>
<tr>
<td>(%)</td>
<td>(0.4%)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>(1.23%)</td>
</tr>
<tr>
<td><strong>Total Agricultural Sector</strong></td>
<td>26 000 000</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2 935 (excluding textile)</td>
</tr>
</tbody>
</table>

Source: www.igeme.gov.tr
MARA is responsible for the overall management of the organic system. The MARA services in Ankara include two sections: main service units and advisory and control units. The five main groups at MARA are the General Directorate of Agricultural Production and Development (DGAP), General Directorate of Plant Protection and Control (DGPC), General Directorate of Structuring and Support, General Directorate for Agricultural Research and Department for Foreign Affairs and EU Coordination. Within MARA, the Secretariat of Organic Agriculture and the Organic Agriculture Committee (OAC) was established in 1993 under the Department of Research, Planning and Coordination, which is classified as one of the advisory and control units. Through a decision of the Minister published in August 22, 2003 dated Official Gazette, the responsibility was taken from the Department of Research, Planning and Coordination and given to DG of Agricultural Production and Development. Currently staff dealing with issues on OA is employed at the Department of Alternative Agricultural Production Techniques Department (AAPT) within the DGAP.

There are at the moment three sub-groups in AAPT: Legislation and policy, Data collection and evaluation and Alternative agricultural production. The main target groups in training programs at MARA/HQ are OAC members and AAPT staff.

The stakeholders from the civil society are embraced through three committees established: National Orientation Committee (NOC) (established with the regulation issued in 1994), National Trade Committee (NTC) (with Regulation 2002) and National Research Committee (NRC) (with Regulation 2002). The first two operate under the DGAP whereas the third, NRC, under the DGAR. These three committees are established to work with the Ministry in setting up the priority lists and developing a national strategy, and in determining the weaknesses and opportunities in respective fields.
Annex 9. ORGANOGRAM showing Chain of Command in MARA in relation to the project
Institutional framework with regard to project implementation is shown on the diagram given on previous page.

The AAPT Department will be the general body that will develop the overall strategies and plans in consultation with OAC for the OA. The project will be coordinated by the Project Coordinator.

As being the Head of AAPT, the project coordinator will be responsible from daily management of this project. He will chair weekly to monthly meetings take place among a team of 15 staff. He will directly report to the Director General for DGAP who is the final authority in taking decisions on legislation proposals, any necessary action for effective implementation of project, signing official letters and approving the reports.

Organic Agriculture Committee which is legally established body where different departments of MARA are represented, will act as an advisory body during implementation of the project. Project Coordinator will inform the Committee on the status of project implementation at every meeting held during the project duration.

Whenever the other Committees meet (National Trade, Orientation and Research Committees) Project Coordinator will inform committee members on the project implementation.

Project Coordinator will be responsible for mobilising the provincial directorates and Research Institutes staff, receiving feedback from them and liaising with the technical assistance team.

For the pilot projects, provincial directorates and Research Institutes will be responsible from implementation. Project Coordinator will define, with the support of TA team, the activities to be carried out in pilot project areas. Any request of Project Coordinator and any reporting from Research Institutes will be done through provincial directorates.
ANNEX 10. INFORMATION ON PILOT PROJECTS

The locations selected as possible sites for the pilot projects is as follows:

ADANA (South Turkey): Cukurova is one of the most productive areas in Turkish agriculture however pollution has become a real danger for the wetland ecosystem especially at the southern part of the delta known for its ecological and biological diversity. A project was supported through EU funding under LIFE programme and a databank was assessed for the conservation of biodiversity and to prepare the conservation plan for Cukurova delta. A basic set of data has been collected in respect to approach of farmers for conversion to OA. The pilot project entitled “Conversion of Intensive Horticulture Production in Wetland Ecosystems” will provide continuity for the previous project in promoting OA in this environmentally sensitive region.

DUZCE (Northern Turkey): The main agricultural production in Duzce is hazelnut and tobacco, providing 76 (6.8 %), of the local farmers income. Two earthquakes hit Duzce in 1999 and since then unemployment has increased. The restriction policy on hazelnut and tobacco due to environmental and economic problems is the driving forces in search for enterprise diversification and alternative sources of income. In Duzce, land around Big Melen River and its subsidiaries are under protection since it is a major source for drinking water in Istanbul. Grassland covers an important part of the province and farms generally have cattle. Düzce is well known for its dairy products especially cheese. Vegetable production has a share of 3 to 5 % in the plant production despite the easy access to big metropolitan cities as Istanbul and Ankara. The yield is generally low since production yield is based on monocultures.

Hence a pilot project on “Enterprise Diversification Through Organic Production and On-Farm Processing” will respond to this situation and will have to work on organic plant and animal production in two locations at Duzce and on-farm processing of organic products directed to domestic markets in Istanbul and Ankara. Strategic partnerships will have to be developed with the Association for Development in Duzce, Arabaci Village Development Cooperative and Bugday Association Supporting Ecological Life (NGO) to establish links throughout the chain.

ERZURUM (Eastern Turkey): Agriculture plays a significant role in the economy of the Eastern Anatolia. The climatic conditions and the mountain-forest ecosystem provide a production pattern based on animal husbandry. Next to this, picking of fruits and medicinal and aromatic plants like caper and rose hip from nature as well as bee keeping is also practised in this region. A pilot project “Organic Bee Keeping and Harvesting in the Wild in Forest and Mountain Ecosystems” aims to introduce organic practices in wild (nature) picked products and honey production and create an added value to the products and at the same time develop an environmentally sound strategy for picking from nature. A strategic partnership will be built with existing farmers’ and traders’ organizations in Erzurum.

IZMIR (Western Turkey): Tahtali Dam is currently providing drinking water to Izmir. The water collection basin covering ca 50 000 hectares is under protection to prevent pollution of this important water source. This protected region is one of the major areas for greenhouse cucumber production. A pilot project in Tahtali Dam area will help to develop capacity building and information within MARA at provincial level on organic greenhouse production. Conversion to organic system in greenhouse vegetable production through the pilot project on “Organic Greenhouse Cultivation” will provide new opportunities for safer products and thus increased exportation.

KUTAHYA-AFYON (Central Western Turkey): Under rain-fed agriculture water is the limiting factor that amongst others affects the uptake of nutrients and soil fertility. Kutahya-Afyon region is rich in landraces of cereals and pulses and also the major conservation area of the endangered bird species Otis tarda. Developing organic agriculture through a pilot project “Rain-fed Organic Grain Production in Semi-Arid Ecosystems” will contribute to a successful conversion of resource-poor farmers to organic agriculture. Strategic partnerships will be established with environmentalist NGOs like the Bird Research Association, Ibrahim Aksaz Association on Conservation of Wild Life and farmer’s cooperatives as Basmakci Rose Development Cooperative.
During the implementation of the pilot projects, the outputs of the following linked activities will provide input:

**EU supported projects**

EC(AIDCO)/CIHEAM cooperation project (contract No. ME 8/B7-4100/TB/97/0398-1) called “Regional Action Program“ (1998 - 2003) It includes the development of OA in the Mediterranean countries including Turkey. There were two networks supported by the Mediterranean Agronomic Institute of Bari (Italy) and the Mediterranean Agronomic Institute of Chania (Greece). It established two relevant research networks OA called: Mediterranean Organic Agriculture Network (www.agrimed.it) and indigenous OA in the Mediterranean. Called MAICH(www.maich.gr), respectively. Within the same four year programme, 4 international courses were organized at Ege University on OA. Lecture notes and international links established will provide a relevant input for the activities of MARA in this project.

INCO 5th Framework Programme – a European Research Initiative (ERBIC18-CT-98-0266) on salt removing species called “Generating New Techniques to Control Desertification: Phase II” was financed in 1998 for several years. The research results as well as the identified the species will be used in this project pilot project in the wetland region.

INCO 5th Framework Programme INCO – a European Research Initiative (ERBIC-A3-CT-2002-10020) entitled “Efficient Water Use Through Environmentally Sound Hydroponic Production of High Quality Vegetables for Domestic and Export Markets in Mediterranean Countries (ECOPONICS)” funded in 2002 will provide data on integrated plant protection measures under greenhouse conditions and related marketing data.

6th Framework Integrated Project: 506358 ‘Improving Quality and Safety and Reduction of cost in the European Organic and “low input”food supply chain (QualityLowInputFood)’. This EU Research project will start in 2004 and involves Turkish research participation from TUBITAK/MAM in Gebze. Insights gained can help MARA in developing and strengthening knowledge on European Organic Food Safety and Quality issues. (www.qlif.org) The project will run from 2004 till 2008.

ETO and IŞIK Tarim (private company) carried out a small-scale project on training activities through EU/SMAP funds (EU-ME8/B7-4100/IB/99/0233-02) in the year 1999-2002. The proposed project will build on these already completed, on-going or newly started projects.

THE EU - LIFE programme supported the Ministry of Forestry and Environment (MoFE) with activities on biodiversity and environmental protection and rural development. This project includes objectives on the development of OA in targeted regions. The project on biosphere preservation in Çukurova wetlands that runs from 2002 to 2004 is closely linked to the pilot project targeted for coastal wetlands around in Adana.

The World Bank has been financing for several years a project in Turkey to promote crops substitution as an alternative to crops that have excess supply as hazelnut and tobacco. The pilot project in this proposal aiming to replace hazelnut and tobacco through OA holds direct linkages with this WB project. Cooperation and consultation with relevant parties is foreseen and planned.

The Turkish Scientific and Technical Research Council (TUBITAK) is financing State Research Organizations on organic vegetable production under greenhouses and grapes for drying (Ege university) and table consumption (Çukurova university) and of citrus fruit production (RTI on greenhouses and citrus). The national SPO of MARA is financing a project on organic cherry (Ege university) production. All these research projects will provide input to develop organic techniques during the implementation of the new proposal.

UNDP/GEF funded in 1996 under its small grants programme a feasibility study to identify the roadmap for the introduction of organic agriculture to the preservation area of Tahtali dam built to provide drinking water to Izmir. In the same region TUBITAK supported a second project (TARP 2577/1) on “organic
production under greenhouse conditions at Tahtali dam preservation area” to optimize production techniques of greenhouse vegetables. The data and experience gained will contribute to the applications under greenhouse conditions and can be used in the respective pilot project.

An ongoing Greek-Turkish cooperation coordinated by Exandas will start to implement activities on OA in the region recently hit by the earthquake in Duzce-Bolu.

Six workshops realized by MARA through the financial and technical support of FAO -Turkey in order to prepare the project with a participatory approach:

4. “Potential and problems of Eastern Anatolia region for organic agriculture and recommendations for solution” Erzurum (February 19, 2004),
5. “Development of organic agriculture in dry farming areas and biodiversity” Kütahya (March 1, 2004),
6. “Development of organic agriculture in wetlands” Adana (March 8, 2004),
# ANNEX 11. DETAILED BREAKDOWN OF BUDGET

<table>
<thead>
<tr>
<th></th>
<th>BUDGET REQUESTED FROM EU</th>
<th>EU TOTAL</th>
<th>YEAR1</th>
<th>YEAR2</th>
<th>National Cofinancing from MARA</th>
<th>Total Project Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Technical Assistance for Institutional Strengthening</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Legislation related activities</td>
<td></td>
<td>110.000 60.000</td>
<td>50.000</td>
<td></td>
<td>110.000</td>
<td></td>
</tr>
<tr>
<td>Capacity Development within MARA</td>
<td></td>
<td>305.000 260.000</td>
<td>45.000</td>
<td></td>
<td>305.000</td>
<td></td>
</tr>
<tr>
<td>Control and Supervision of Certification Bodies</td>
<td></td>
<td>65.000 30.000</td>
<td>35000</td>
<td></td>
<td>65.000</td>
<td></td>
</tr>
<tr>
<td>Information Management and Communication</td>
<td></td>
<td>100.000 75.000</td>
<td>25.000</td>
<td></td>
<td>100.000</td>
<td></td>
</tr>
<tr>
<td>Pilot Projects</td>
<td></td>
<td>180.000 70.000</td>
<td>110.000</td>
<td></td>
<td>180.000</td>
<td></td>
</tr>
<tr>
<td>Other Administrative Costs (publication of manuals etc.)</td>
<td></td>
<td>150.000 75.000</td>
<td>75.000</td>
<td></td>
<td>150.000</td>
<td></td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td></td>
<td>910.000 570.000</td>
<td>340.000</td>
<td></td>
<td>910.000</td>
<td></td>
</tr>
<tr>
<td>2. Supply of Equipment</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IT and Communication Equipment</td>
<td></td>
<td>262.500 262.500</td>
<td>87.500</td>
<td></td>
<td>350.000</td>
<td></td>
</tr>
<tr>
<td><strong>SUBTOTAL</strong></td>
<td></td>
<td>262.500 262.500</td>
<td>0</td>
<td>87.500</td>
<td>350.000</td>
<td>0</td>
</tr>
<tr>
<td><strong>GRAND TOTAL</strong></td>
<td></td>
<td>1.172.500</td>
<td>340.000</td>
<td>1.260.000</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**ANNEX 12. BUDGET AND TECHNICAL SPECIFICATION ON INVESTMENT (INDICATIVE)**

<table>
<thead>
<tr>
<th>Items and Minimum Specifications</th>
<th>Number Required</th>
<th>Estimated Unit Value</th>
<th>Total Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Switch</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specifications will have optimum Price/Performance value when purchased in 2005</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Layer 2/3 switching and routing capability</td>
<td>1</td>
<td>4.000</td>
<td>4.000</td>
</tr>
<tr>
<td>At least 48 10/100 Mbps and 2 1000Base TX ports.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced QoS, port mirroring(monitoring), rate limiting, ACL's, RIP, OSPF, IGRP, BGP,</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>802.1Q VLAN trunking, 802.1s, 802.1w, 802.1ad, IGMP snooping</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SNMP and RMON</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non blocking for full duplex configuration.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Firewall</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Specifications will have optimum Price/Performance value when purchased in 2005</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1Gbps throughput, 25.000 connection/sec, 1.000.000 concurrent session</td>
<td>1</td>
<td>7500</td>
<td>7.500</td>
</tr>
<tr>
<td>8 10/100 Mbps and 2 1000Base TX ports</td>
<td></td>
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<tr>
<td>At least two CPU with at least Intel Xeon 2.8 Ghz</td>
<td></td>
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</tr>
<tr>
<td>VLAN, DHCP server and relay</td>
<td></td>
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</tr>
<tr>
<td>Stateful Connection Oriented Dynamic Packet Filtering and must be able to inspect traffic between Layer2 and Layer7</td>
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</tr>
<tr>
<td>Support Dynamic and Static NAT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>inspection mechanisms for HTTP, FTP, CIFS, SMTP, DNS, SQL, SSH, SNMP, H.323, SIP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Protect anti-spoofing, DoS, Nimda, CodeRed, Directory Traversal, SQL Slammer, Blaster (MS Blast), Welchia worms</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M+S Messenger, ICQ, KaZaA etc can be detected and blocked</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Enhanced CIFS protocol inspection</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Must identify unusual port scans, login failures, LAND, SYN attacks, and IP addresses which have more than predefined number of connections to internal resources</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SMTP anti-relay mechanisms, FTP inspection mechanisms</td>
<td></td>
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<tr>
<td>Must have real-time traffic monitoring tools which will allow monitoring the traffic based on the services, source or destination IP addressess, and attacks</td>
<td></td>
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<tr>
<td>QoS features for traffic prioritization, must allow both inbound and outbound, rule based traffic control</td>
<td></td>
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<tr>
<td>traffic classification according to the source/destination addresses and the direction of the traffic</td>
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<tr>
<td>weighted, guaranteed, limited and exceptional Bandwidth Management criterias</td>
<td></td>
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</tr>
<tr>
<td>At least 750 Mbps VPN throughput and 20.000 concurrent users</td>
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</tbody>
</table>
VPN System must support both Site-to-Site (between VPN gateways) and Client-to-Site (RemoteAccess, between VPN clients and VPN gateways) VPN topologies. It must support 3DES and AES.

**Server - Database at Computer Center:**

- **Processor:** 4 Xeon MP CPU with 3 GHz 4MB Cache
- **Ram:** 8 GB ECC
- **PCI Slot:** 6 64-bit, PCI-X
- **SCSI Controller:** Integrated Dual Channel Ultra 320 SCSI-Controller, RAID 1, 0+1,5
- **Fiber Channel Adapter:** 2 200 MB/s, Full Duplex, Host Bus Adaptor
- **2 Ultra 320, 36 GB, 15K HD**
- **Dual Gigabit Ethernet Adapter**
- **Redundant Power Supply**
- **Redundant Fan**
- **Legacy Ports:** USB 2.0 interface, video, mouse
- **Drivers:** DVD-ROM+CD-RW Combo, Floppy Drive
- **Rack Mount kit**
- **Operating System:** Windows 2003 Enterprise Server

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<tbody>
<tr>
<td></td>
<td>2</td>
<td>29000</td>
</tr>
</tbody>
</table>

**Server - Database, App. Web at Backup Center:**

- **Ram:** 4 GB ECC
- **PCI Slot:** 4 64-bit, PCI-X
- **SCSI Controller:** Integrated Dual Channel Ultra 320 SCSI-Controller, RAID 1, 0+1,5
- **Ultra 320, 15K HD with 200 GB Net Disk Capacity in RAID 1 Configuration**
- **Dual Gigabit Ethernet Adapter**
- **Redundant Power Supply**
- **Redundant Fan**
- **Legacy Ports:** USB 2.0 interface, video, mouse
- **Drivers:** DVD-ROM, Floppy Drive
- **Rack Mount kit**
- **Operating System:** Windows 2003 Enterprise Server

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<tbody>
<tr>
<td></td>
<td>1</td>
<td>17000</td>
</tr>
</tbody>
</table>

**Server - Application & Web at Computer Center**

- **Ram:** 4 GB ECC
- **PCI Slot:** 4 64-bit, PCI-X
- **SCSI Controller:** Integrated Dual Channel Ultra 320 SCSI-Controller, RAID 1, 0+1,5
- **2 Ultra 320, 72 GB, 15K HD**
- **Dual Gigabit Ethernet Adapter**
- **Redundant Power Supply**
- **Redundant Fan**
- **Legacy Ports:** USB 2.0 interface, video, mouse
- **Drivers:** DVD-ROM, Floppy Drive
- **Rack Mount kit**
- **Operating System:** Windows 2003 Enterprise Server

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<tr>
<td></td>
<td>1</td>
<td>13500</td>
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</table>

**SAN (Storage Area Network)**

- **Storage Unit:**

<p>| | | |</p>
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<tbody>
<tr>
<td></td>
<td>1</td>
<td>24000</td>
</tr>
<tr>
<td><strong>Dual U160 Back Plane,</strong> Dual Controller</td>
<td></td>
<td></td>
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<tr>
<td>-------------------------------------------</td>
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<td></td>
</tr>
<tr>
<td>512 MB Cache</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RAID 0,1,0+1,5 Support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Net Capacity of 400 GB with RAID 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dual Fiber Interface</td>
<td></td>
<td></td>
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<tr>
<td>Necessary SAN software and accesories</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fiber Switch:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 12000 12.000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 Port, Fiber SAN Switch</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fiber Cables:</strong></td>
<td></td>
<td></td>
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<tr>
<td>8 100 800</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HBA-SAN switch connecting Fiber Cables</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HBA - Host Bus Adapter (For Existing server)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>200 MB/s, Full Duplex, Fiber Channel HBA</td>
<td></td>
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</tr>
<tr>
<td>2 1500 3.000</td>
<td></td>
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<tr>
<td><strong>Archive System</strong></td>
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</tr>
<tr>
<td>1 9.000</td>
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<tr>
<td><strong>Backup Software:</strong></td>
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<tr>
<td>1 3000 3.000</td>
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</tr>
<tr>
<td>Windows 2003 Server, MS SQL Server,</td>
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<tr>
<td>MS Exchange Server Compatible</td>
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<td></td>
</tr>
<tr>
<td>LAN and LAN-Free backup support</td>
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<td></td>
</tr>
<tr>
<td>Fully compatible with tape device</td>
<td></td>
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<tr>
<td><strong>Tape Device:</strong></td>
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<tr>
<td>1 4000 4.000</td>
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<td></td>
</tr>
<tr>
<td>Ultra SCSI 320 and Ultra 160 Support</td>
<td></td>
<td></td>
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<tr>
<td>External with necessary cables</td>
<td></td>
<td></td>
</tr>
<tr>
<td>160 GB uncompressed and 320 GB compressed capacity</td>
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<tr>
<td><strong>Tape Media:</strong></td>
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<tr>
<td>20 100 2.000</td>
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<tr>
<td>160 GB uncompressed and 320 GB compressed capacity</td>
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<tr>
<td>Fully compatible with tape device</td>
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<td></td>
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<tr>
<td><strong>KVM Switch</strong></td>
<td></td>
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<tr>
<td>2 1200 2.400</td>
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<td></td>
</tr>
<tr>
<td>8 Port, Keyboard, Video, Mouse Switch</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digital, On-Display Configurable Menu</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 all-in-one cable, 5 meter long</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17” CRT Flat Square Monitor, Optical Wheel Mouse, Q Turkish Keyboard</td>
<td></td>
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<tr>
<td><strong>Cabinet</strong></td>
<td></td>
<td></td>
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<tr>
<td>2 1000 2.000</td>
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<td></td>
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<tr>
<td>36U, 19” standard Server Cabinet</td>
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<tr>
<td>Fully compatible with the proposed servers</td>
<td></td>
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<tr>
<td><strong>UserTraining Development Tool</strong></td>
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<tr>
<td>1 650 650</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interactive Demonstrations and Software Simulations in Flash Format</td>
<td></td>
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</tr>
<tr>
<td>Support for Recording Actions in Any Application as a Flash Simulation with Visible And Audible Mouse Movements</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Small File Size and High Resolution</td>
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<tr>
<td>Simulations and Demos Should Easily be Published Online or Burn to CD for Use in Training or User Support</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Security Software</strong></td>
<td></td>
<td></td>
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<tr>
<td>100 50 5.000</td>
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<td></td>
</tr>
<tr>
<td>Client Antivirus/Filtering/IDS Package</td>
<td></td>
<td></td>
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<tr>
<td>Web Antivirus/Filtering Gateway</td>
<td></td>
<td></td>
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<tr>
<td>E-mail Antivirus/Anti-Spam Gateway</td>
<td></td>
<td></td>
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<tr>
<td>Central Management</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-years update</td>
<td></td>
<td></td>
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<tr>
<td>Fully Compatible with E-mailing Software</td>
<td></td>
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<tr>
<td><strong>E-mailing Software</strong></td>
<td>100</td>
<td>6.000</td>
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<td>------------------------</td>
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<tr>
<td>Relay support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filtering, Anti Spam Support</td>
<td></td>
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<tr>
<td>Multi-Site Server Support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Multi-Domain Support</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Custom Recipient Enabled</td>
<td></td>
<td></td>
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<tr>
<td>Web Enabled</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote Management Support</td>
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<table>
<thead>
<tr>
<th><strong>Computer</strong></th>
<th>90</th>
<th>1000</th>
<th>90.000</th>
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</thead>
<tbody>
<tr>
<td>Processor: Intel Pentium 4 2.8 HT 800 MHz</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Memory: 512 MB Dual DDR 400 MHz</td>
<td></td>
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</tr>
<tr>
<td>Hard Disk: 80 GB 7200 rpm</td>
<td></td>
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<tr>
<td>Video Card: 64 MB DDR, Tv-out, AGP 8x</td>
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<td></td>
</tr>
<tr>
<td>Ethernet Adapter: 10/100 Auto Sense</td>
<td></td>
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</tr>
<tr>
<td>Legacy Ports: 4 USB 2.0, Parallel Port, Serial Port, PS/2 Mouse, Keyboard</td>
<td></td>
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</tr>
<tr>
<td>Optical Drive: Combo (16xDVD-ROM+ 52x24x52x CDRW)</td>
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<td></td>
</tr>
<tr>
<td>Operating System: Latest Windows Professional Edition</td>
<td></td>
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<tr>
<td>Monitor: 17” Flat Square</td>
<td></td>
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</tr>
<tr>
<td>Fax Modem Card: 56 K V90 Full Duplex</td>
<td></td>
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<table>
<thead>
<tr>
<th><strong>Notebook</strong></th>
<th>4</th>
<th>2000</th>
<th>8.000</th>
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</thead>
<tbody>
<tr>
<td>Processor: Intel Centrino 1.8</td>
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<td></td>
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</tr>
<tr>
<td>Memory: 512 MB</td>
<td></td>
<td></td>
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<tr>
<td>Hard Disk: 40 GB</td>
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<tr>
<td>Video Card: 32 MB DDR, Tv-out, AGP 4x</td>
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<tr>
<td>Ethernet Adapter: 10/100 Auto Sense</td>
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<tr>
<td>Legacy Ports: USB 2.0, Parallel Port, PS/2 Mouse, Keyboard</td>
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<tr>
<td>Optical Drive: Combo (8xDVD-ROM+ 8x4x24x CDRW)</td>
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<tr>
<td>Operating System: Latest Windows Professional Edition</td>
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<tr>
<td>Office Productivity Suite: Latest Microsoft Office Standard Edition</td>
<td></td>
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<tr>
<td>Monitor: 15” TFT SVGA+ (1400x1050, 16.7 Million Color)</td>
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<tr>
<td>Fax Modem Card: 56 K V90 Full Duplex</td>
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<table>
<thead>
<tr>
<th><strong>Printers</strong></th>
<th>48.500</th>
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<tbody>
<tr>
<td>Black &amp; White, Laser Printer:</td>
<td>81</td>
<td>500</td>
</tr>
<tr>
<td>1200x1200 Dpi, 16 ppm, Network Enabled</td>
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<tr>
<td>Multifunction Black&amp;White Laser Printer:</td>
<td>1</td>
<td>8000</td>
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<tr>
<td>1200x1200 Dpi, 32 ppm, Network Enabled, 128 MB RAM, Printer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Network Scanner (or scan-to-email functionality)</td>
<td></td>
<td></td>
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<tr>
<td>Photocopy</td>
<td></td>
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</tr>
<tr>
<td>Network Laser Fax, Automatic, Speed dial min. 50, Digital</td>
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<table>
<thead>
<tr>
<th><strong>Photocopy Machine</strong></th>
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<th>4000</th>
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<tbody>
<tr>
<td>600x600 dpi</td>
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<tr>
<td>Zoom 25%-800%</td>
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<tr>
<td>Monthly Capacity 30,000</td>
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<tr>
<td>Total Life span 2,000,000 copies</td>
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<tr>
<td>Warming up Max 81. sec</td>
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<tr>
<td>Item</td>
<td>Quantity</td>
<td>Price</td>
<td>Total</td>
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<tr>
<td>Paper source 2500</td>
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<tr>
<td>Memory: 64 MB</td>
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<tr>
<td><strong>Telephones</strong></td>
<td>3</td>
<td>80</td>
<td>150</td>
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<tr>
<td>Wireless (Dect)</td>
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<tr>
<td><strong>Scanners:</strong></td>
<td>2</td>
<td>150</td>
<td>300</td>
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<tr>
<td>A4, 32-bit, 4800x2400 resolution</td>
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<tr>
<td><strong>Digital Camera</strong></td>
<td>1</td>
<td>300</td>
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</tr>
<tr>
<td>5 Mpixel, 3x optical zoom, LCD display, 256 MB Ram</td>
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<tr>
<td><strong>Database Software (Per CPU)</strong></td>
<td>4</td>
<td>5000</td>
<td>20,000</td>
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<tr>
<td>MS SQL Server Standard Edition</td>
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<tr>
<td><strong>Video Projector:</strong></td>
<td>1</td>
<td>2500</td>
<td>2,500</td>
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<tr>
<td>2750 ANSI Lumen</td>
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<tr>
<td>Digital Keystone</td>
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<tr>
<td>True resolution of SXGA and XGA</td>
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<tr>
<td>Laser Pointer, Remote Control and Mouse Control</td>
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<tr>
<td>Weight must be less than 2.5 kg</td>
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<tr>
<td>Motorized zoom, focus</td>
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<tr>
<td>2 PC, 1 Video, 1 S-Video</td>
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<tr>
<td>RCAx3 (HDTV and DVD component)</td>
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<tr>
<td><strong>USB Memory Stick</strong></td>
<td>90</td>
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<tr>
<td>USB 2.0 support</td>
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<td>256 MB capacity</td>
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<tr>
<td><strong>fax machines</strong></td>
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<td>500</td>
<td>1,000</td>
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<td>A4, automatic, speed dial min.50, laser printing, page</td>
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<td>memory cap.1 MB</td>
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<tr>
<td><strong>TOTAL</strong></td>
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