

Microsoft Consulting Services Work Order

(For Microsoft Internal Purposes Only)
MCS (WO Type 1-lite)

FY07-04-13

This work order is made pursuant to the Microsoft Master Services Agreement (the "agreement") effective as of [blank], by and between the undersigned customer or its affiliate ("you") and the undersigned Microsoft affiliate or its affiliate ("we," "us," or "our"). The terms of the agreement are incorporated herein by this reference. Any terms not otherwise defined herein will assume the meanings set forth in the agreement. This work order is comprised of this cover page and the work order terms below, which are incorporated herein by this reference.

Customer Invoice Information		
Name of Customer PUNJAB LAND RECORDS SOCIETY	Contact Name (This person receives invoices under this work order.)	
Name of Customer or Affiliate that executed MSA if different than the undersigned		
Street Address Office of Director of Land Records Kapurthala Road	Contact E-mail Address plrs-jal1@yahoo.com	
City Jalandhar	State/Province Punjab	Phone 0181-2254018
Country INDIA	Postal Code 144002	Fax 0181-2254935

Invoicing
 We will invoice you for services performed and expenses incurred. Our invoices for payment will be directed to your representative for payment at the address shown above. Please indicate a Purchase Order No. (if any):

Commencement Date
 This work order will commence on [blank] or the date we begin providing the services, which ever is earlier. This work order will expire on [blank] or the date we conclude the services, which ever is later.

By signing below the parties acknowledge and agree to be bound to the terms of the agreement and this work order.

Customer	Microsoft Affiliate
Name of Customer (please print) Arvinder Singh	Name Microsoft Corporation (India) Private Limited
Signature 	Signature
Name of person signing (please print) Arvinder Singh	Name of person signing (please print) Vikas Arora
Title of person signing (please print) Member Secretary	Title of person signing (please print) Director - Enterprise Services
Signature date 5th October, 2006	Signature date 5th October, 2006

MANU SRIVASTAVA

1. **Services.** We will perform the services identified below for you. Any dates provided are estimates only.

Functional & Technical requirement as mentioned in the FRS and inline with compliance matrix will be captured.

Redesign the database

The first task of the PLRS project will be to change the design of the existing database and migrate the existing data. Currently the database is designed in such a way that there is one SQL server database per village. We will change this to have a consolidated database which can be deployed at various levels (state/district/circle etc and can contain the data of itself and all the children entities.)

- The database will also be migrated to SQL Server 2005
- The existing data will be migrated into the new database.
- All infrastructure to secure the database
- All infrastructure to monitor/administer the database.
- All Auditing infrastructure.
- Failover.
- Backup and disaster recovery.
- Fully Unicode compatible database

Migration of Data Entry Application to .Net

The data entry application is used to enter land records data which exists on paper into the computer system. The primary goal of the application is to make sure that the data entry operators can enter the data without making mistakes (the UI has to be very intuitive so that least amount of manual data entry is required and the system prompts for data wherever required).


- We will migrate the existing Data Entry application to Visual Basic .NET 2005.
- The functionality of the application will be maintained. (existing data validation will be strengthened).
- We will make sure that proprietary controls are eliminated and that the application uses pure Unicode.
- The application will be modified to store the data into the new database schema.
- Application will be FULLY localized in Gurumukhi language with end to end Unicode support with no 3rd party controls etc.
- Security of data on the wire

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- Security of Application (bio metric authentication)
- Role based security

Migration of e-Patwari and e-Tehsildar Applications to Smart Client technology

- The business logic of the applications will move to services.
- The UI will move to smart client technology.
- All reports will move to SQL Reporting Services
- Make sure that GIS software provided by partner is fully fits into the application architecture.
- Make sure that all the new application functionality is also provided by the app.
- New functionality related to GIS is also provided by the Apps.
- Complete localization of application.

Integration of the GIS software and Registration module

- The partners GIS software has to be fully integrated into the the applications.
- All new GIS functionality should be incorporated into the application. (proper requirements spec for this will be provided by customer).

Data Synchronization Bus based on MSMQ

If the application is deployed at various levels (other than districts), then the data changes made at the various smaller levels like kanungo/tehsil etc will have to be propagated up to the level of district and the state datacenter.

Quality of the delivered solution

- Infrastructure to allow the government to monitor the progress of the project.
- Application development will conform to MSF Agile development process methodology.

Project management

MCS will ensure that the project is delivered on time and meets the functionality expected by the Punjab government.


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Partner management

MCS will have to manage the partners providing the GIS software functionality and the partners providing the programmers.

Proof of Scalability and performance

- Provide mechanism to scale up and scale out each layer in the application
- Prove the performance of the application in a performance test lab.


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High Level Project Plan


ID	Task Name	Duration	Start	Finish	Predecessors
1	- Integrated Land Records and Registration Management Syst	120 days	Wed 11/1/06	Tue 4/17/07	
2					
3	- Use Case Documentation	15 days	Wed 11/1/06	Tue 11/21/06	
4	Use Case Documents for GIS Module	5 days	Wed 11/1/06	Tue 11/7/06	
5	Use Case Documents for Data entry	2 days	Wed 11/8/06	Thu 11/9/06	4
6	Use Case Documents for e-Patwari	5 days	Fri 11/10/06	Thu 11/16/06	5
7	Review of Use Case documentation	2 days	Fri 11/17/06	Mon 11/20/06	6
8	Signoff on use case documents	1 day	Tue 11/21/06	Tue 11/21/06	7
9					
10	- GIS Integration Strategy	9 days	Wed 11/1/06	Mon 11/13/06	
11	Review of GIS Use Cases	1 day	Wed 11/1/06	Wed 11/1/06	
12	Documentation on integration strategy	5 days	Thu 11/2/06	Wed 11/8/06	11
13	Agreement on Integration Interfaces	2 days	Thu 11/9/06	Fri 11/10/06	12
14	Signoff on integration strategy	1 day	Mon 11/13/06	Mon 11/13/06	13
15					
16	- Implementation Phase 1	120 days	Wed 11/1/06	Tue 4/17/07	
17	- Migration of database Schema	12 days	Wed 11/1/06	Thu 11/16/06	
18	Database Schema specification documentation	5 days	Wed 11/1/06	Tue 11/7/06	
19	Database Schema Script implementation	5 days	Wed 11/8/06	Tue 11/14/06	18
20	Review of database schema	2 days	Wed 11/15/06	Thu 11/16/06	19
21					
22	- Data Entry Module	30 days	Fri 11/17/06	Thu 12/28/06	17
23	Review of Use Case documents	1 day	Fri 11/17/06	Fri 11/17/06	
24	Data Entry Module Design Specification	5 days	Mon 11/20/06	Fri 11/24/06	23
25	Implementation of data entry module	10 days	Mon 11/27/06	Fri 12/8/06	24
26	Functional Testing of Data Entry Module	5 days	Mon 12/11/06	Fri 12/15/06	25
27	Creation of installer package for Data entry module	3 days	Mon 12/18/06	Wed 12/20/06	26
28	Acceptance Testing of Data Entry Module	5 days	Thu 12/21/06	Wed 12/27/06	27
29	SignOff on Data Entry Module	1 day	Thu 12/28/06	Thu 12/28/06	28
30					
31	- Migration of ePatwari User Interface	66 days	Fri 11/17/06	Fri 2/16/07	17
32	Review of Use Cases	1 day	Fri 11/17/06	Fri 11/17/06	
33	Design specification of ePatwari Services	5 days	Mon 11/20/06	Fri 11/24/06	32
34	Design Specification for ePatwari UI	5 days	Mon 11/27/06	Fri 12/1/06	33
35	Development of Services	15 days	Mon 12/4/06	Fri 12/22/06	34
36	Unit Testing of Services	5 days	Mon 12/25/06	Fri 12/29/06	35
37	Development of UI	20 days	Mon 1/1/07	Fri 1/26/07	36
38	Code Review of Services	2 days	Mon 1/29/07	Tue 1/30/07	37
39	Code Review of UI	2 days	Wed 1/31/07	Thu 2/1/07	38
40	Functional testing of ePatware (without GIS)	5 days	Fri 2/2/07	Thu 2/8/07	39
41	Acceptance Testing of ePatwari (without GIS)	5 days	Fri 2/9/07	Thu 2/15/07	40
42	SignOff of ePatware (without GIS)	1 day	Fri 2/16/07	Fri 2/16/07	41

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43					
44	- Migration of Tehsildar (Approval) Module	19 days	Fri 11/17/06	Wed 12/13/06	17
45	Review of Use Cases	1 day	Fri 11/17/06	Fri 11/17/06	17
46	Design specification of Tehsildar Module	2 days	Mon 11/20/06	Tue 11/21/06	45
47	Implementation of Tehsildar Module	10 days	Wed 11/22/06	Tue 12/5/06	46
48	Functional testing of tehsildar Module	3 days	Wed 12/6/06	Fri 12/8/06	47
49	Acceptance testing of tehsildar module	2 days	Mon 12/11/06	Tue 12/12/06	48
50	Signoff on Tehsildar Module	1 day	Wed 12/13/06	Wed 12/13/06	49
51					
52	- Integration with GIS Module	33 days	Mon 2/19/07	Wed 4/4/07	31
53	Removal of Stub code from ePatwari App with the n	2 days	Mon 2/19/07	Tue 2/20/07	
54	Integration Testing with the GIS Module	20 days	Wed 2/21/07	Tue 3/20/07	53
55	Functional testing of GIS module	5 days	Wed 3/21/07	Tue 3/27/07	54
56	Acceptance testing on GIS Module	5 days	Wed 3/28/07	Tue 4/3/07	55
57	SignOff of GIS functionality	1 day	Wed 4/4/07	Wed 4/4/07	56
58					
59	- Design of Reporting Module	28 days	Fri 11/17/06	Tue 12/26/06	17
60	Review of Use Case	1 day	Fri 11/17/06	Fri 11/17/06	
61	defining reports	20 days	Mon 11/20/06	Fri 12/15/06	60
62	Functional testing of reports	5 days	Mon 12/18/06	Fri 12/22/06	61
63	Acceptance testing of reports	1 day	Mon 12/25/06	Mon 12/25/06	62
64	SignOff on Reports	1 day	Tue 12/26/06	Tue 12/26/06	63
65					
66	- Complete Testing and SignOff	9 days	Thu 4/5/07	Tue 4/17/07	22,31,52,59
67	Acceptance Testing of entire Phase 1	8 days	Thu 4/5/07	Mon 4/16/07	
68	Phase 1 SignOff	1 day	Tue 4/17/07	Tue 4/17/07	67
69					
70	- Implementation Phase 2	80 days	Wed 11/1/06	Tue 2/20/07	
71					
72	- Data Synchronization Strategy	80 days	Wed 11/1/06	Tue 2/20/07	
73	Requirements Specification of Data Synchronization	5 days	Wed 11/1/06	Tue 11/7/06	
74	Review of requirements	1 day	Wed 11/8/06	Wed 11/8/06	73
75	Prototype application	10 days	Thu 11/9/06	Wed 11/22/06	74
76	Review of Prototype	2 days	Thu 11/23/06	Fri 11/24/06	75
77	Low Level Design documentation	5 days	Thu 11/23/06	Wed 11/29/06	75
78	Implementation of Data Synchronization strategy	50 days	Mon 11/27/06	Fri 2/2/07	76
79	Testing of data Replication at multiple locations includ	10 days	Thu 11/30/06	Wed 12/13/06	77
80	Testing for disaster recovery, by restoring an entire	10 days	Mon 2/5/07	Fri 2/16/07	78
81	Acceptance Testing of Data Synchronization	15 days	Thu 12/14/06	Wed 1/3/07	79
82	SignOff on Data Synchronization	2 days	Mon 2/19/07	Tue 2/20/07	80

Please note that it's a high level project plan, which is indicative in nature. Once the team starts the project, this plan will further get refined and include activities like modules identified in SRS, timelines, deliverables etc.

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2. **Fees.** Following Fixed Price is applicable for this project. The fees do not include fees for products. Unless otherwise specified in the invoice, you will pay us within 15 calendar days of the date of our invoice.

INR 6906404/- (Sixty Nine Lacs Six Thousand Four Hundred and Four Indian Rupees only)
Services Tax will be charged extra.

Payment Terms :

- a) 20% on signing of agreement.
- b) 10% on acceptance of data entry module.
- c) 10% on acceptance of Mutation module, Field book and GIS Module.
- d) 30% on acceptance of Shajra Nasb, Roznamcha Waqiyati modules and Integration with Registration application.
- e) 30% on acceptance of User admin, Khasra Girdawri, and Nakal.


3. **Ownership and license.**

- a. **Products and fixes.** All products and related solutions and fixes provided pursuant to this work order shall be licensed according to the terms of the license agreement packaged with or otherwise applicable to such product. You are responsible for paying any licensing fees associated with products. "**Product**" means any computer code, web-based services, or materials comprising commercially released, pre-release or beta products (whether licensed for a fee or no charge) and any derivatives of the foregoing we make available to you for license which is published by us, our affiliates, or a third party. "**Fixes**" means product fixes that we either release generally (such as commercial product service packs) or that we provide to you when performing services (such as workarounds, patches, bug fixes, beta fixes and beta builds) and any derivatives of the foregoing.
- b. **Pre-existing work.** All rights in any computer code or materials (other than products or fixes) developed or otherwise obtained independently of the efforts of a party under this work order ("**pre-existing work**") shall remain the sole property of that party. During the performance of the services for this work order, each party grants to the other party (and our contractors as necessary) a temporary, non-exclusive license to use, reproduce and modify any of its pre-existing work provided to the other party solely for the performance of such services. Upon payment in full, we grant you a non-exclusive, perpetual, fully paid-up license to use, reproduce and modify (if applicable) our pre-existing work in the form delivered to you as part of the service deliverables only for your internal business operations. "**Service deliverables**" means any computer code or materials (other than products or fixes) that we leave with you at the conclusion of our performance of service(s). Your license to our pre-existing work is conditioned upon your compliance with the terms of the agreement and this work order and the perpetual license applies solely to our pre-existing work that we leave to you at the conclusion of our performance of the services.
- c. **Developments.** Upon payment in full, we assign you joint ownership in all rights in any computer code or materials (other than products, fixes or pre-existing work) developed by us (or in collaboration with you) and provided to you in the course of performance of this work order ("**developments**"). "**Joint ownership**" means each party has the right to independently exercise any and all rights of ownership now known or hereafter created or recognized, including without limitation the rights to use, reproduce, modify and distribute the developments for any purpose whatsoever, without the need for further authorization to exercise any such rights or any obligation of accounting or payment of royalties, except you will only exercise your rights for your internal business operations and you will not resell or distribute the developments to any third party. These use restrictions shall survive termination

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or expiration of this work order or the agreement. Each party shall be the sole owner of any modifications that it makes based upon the developments.

- d. **Affiliates rights.** You may sublicense the rights to the service deliverables granted hereunder to your affiliates, but your affiliates may not further sublicense these rights. Any sublicensing of the service deliverables to your affiliates as permitted by this Section 3 must be consistent with the license terms in the agreement and this work order. If "affiliate" is not defined in the agreement, it means legal entities that you own, which own you, or which are under common ownership with you. "Ownership" means more than 50% ownership.
- e. **Open source license restrictions.** Because certain third party license terms require that computer code be generally (i) disclosed in source code form to third parties; (ii) licensed to third parties for the purpose of making derivative works; or (iii) redistributable to third parties at no charge (collectively, "excluded license terms"), the license rights that each party has granted to any computer code (or any intellectual property associated therewith) do not include any license, right, power or authority to incorporate, modify, combine and/or distribute that computer code with any other computer code in a manner which would subject the other's computer code to excluded license terms.

Furthermore, each party warrants that it will not provide or give to the other party computer code that is governed by excluded license terms.

- f. **Reservation of rights.** All rights not expressly granted in this Section 3 are reserved.


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