

Installation Manual

for

Groundwater Estimation and Management System

Prepared by

Tata Infotech Ltd



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Installation Manual

1. Introduction

Tata Infotech Ltd has developed Groundwater Estimation and Management System (GEMS) software for Central Ground Water Board and eight participating states. GEMS will be installed at Regional Offices, Unit offices of CGWB and the State Data Centers, Unit offices of the participating states.

The GEMS consists of creating database, updating it frequently as and when new data are available after carrying out validation checks on the database and retrieving the data from database when desired. It facilitates data entry, processing, validation, analysis and dissemination of periodic/annual reports on hydrological conditions water resources and development status.

CGWB has defined its locations in terms of the no of nodes supplied to the location and the type of installation to be implemented. Accordingly the software has also been distinguished as Package A, Package B, Package C and Package D.

This manual is to help in installing the GEMS software and all the supporting software necessary for execution of GEMS software.

Package	Hardware
А	8 Workstations and 1 Server
В	5 Workstations and 1 Server
С	2 Workstations
D	2 Workstations

In A Package the workstations and Server will be connected via Switch. In B Package the workstations and Server will be connected via Hub and Router. In C & D Packages the two workstations will be connected to each other via peerto-peer.

2. Software Installation for Package A & B

2.1. Server Installation

- Windows 2000 Server. Make sure that Service Pack3 is loaded
- FTP Server (Installation in Appendix A)



- Oracle 9i Release2, Enterprise Edition for package A and Standard Edition for package B
- DSN Creation

2.2. Client Installation

- Windows 2000 Professional. Make sure that Service Pack3 is loaded
- Oracle 9i Release2, Client
- DSN Creation
- MapInfo 6.5
- SPSS 10.0
- Vertical Mapper 2.6 (Along with hardware lock on Parallel Port of the workstation)
- Vertical Mapper patch to be installed and configured on the client.
- GEMS 1.0 Application Software

3. Software Installation for Package C & D

As there are two machines for these packages

- Oracle 9i Release2, Personal Edition will be installed on one workstation
- Oracle 9i Release2, Client will be installed on other workstation.
- These two workstations will be connected peer-to-peer

3.1. Server Installation

- Windows 2000 Professional. Make sure that Service Pack3 is loaded
- FTP Server (Installation in Appendix A)
- Oracle 9i Release2, Personal Oracle
- DSN Creation
- MapInfo 6.5
- SPSS 10.0
- Vertical Mapper 2.6 (Along with hardware lock on Parallel Port of the workstation)
- Vertical Mapper patch to be installed and configured on the client.
- GEMS 1.0 Application Software

3.2. Client Installation

- Windows 2000 Professional. Make sure that Service Pack3 is loaded
- Oracle 9i Release2, Client
- DSN Creation
- MapInfo 6.5
- SPSS 10.0
- Vertical Mapper 2.6 (Along with hardware lock on Parallel Port of the workstation)



- Vertical Mapper patch to be installed and configured on the client.
- GEMS 1.0 Application Software

4. Installation of Software

This section covers software requirements and installation procedure. The following steps should be followed in the given sequence only

Na	me of software to be installed	Disk space	Location of Installation
		requirements	
1.	Oracle 9i Release2 SERVER	3 GB	On the server at A (Enterprise edition) and
			B (Standard edition) packages
2.	Oracle 9i Release2 CLIENT	350 MB	On the client machine at all the packages
3.	Oracle 9i Release2 Personal	1.5GB	On one of the client machine (which will
	Oracle		also act as server) at C & D packages
4.	MapInfo 6.5	200 MB	All the client machines at all the packages
5.	Vertical Mapper 2.6(with VM	50 MB	All the client machines at all the packages
	Patch)		
6.	SPSS 10.1	150 MB	All the client machines at all the packages
7.	GEMS 1.0	550 MB	the client machines at all the packages

4.1. MapInfo Installation

- Step 1 : Insert the MapInfo Professional 6.5 CD. The installation screen starts automatically. If it does not start automatically then browse the CD and double-click on Setup.exe.
- Step 2 : Click on Install Products and then click on MapInfo Professional. The installation wizard starts. Follow the steps and complete the Installation.
- Step 3 : Click on DBMS support and the installation wizard starts. Follow the steps and complete the installation.

4.2. Vertical Mapper Installation

- Step 1 : Make sure that Map Info is loaded and working. Insert the Vertical Mapper CD. The installation screen starts automatically. If it does not start automatically then browse the CD and double-click on Setup.exe
- Step 2 : The installation wizard starts. Follow the steps and enter the License key to complete the installation



- Step 3: VM Patch (Browse the CD, click on VM Patch\Win_NT\ Setup86.exe Install the Sentinel Driver and click Ok. Then Configure Sentinel Driver and click Ok to configure the software.)
- Note: The Vertical Mapper software comes with a hardware lock which needs to be fitted in the parallel port of the PC. If the hardware lock is not fitted, Vertical Mapper will not work.

4.3. SPSS Installation

- Step 1: Insert the SPSS 10.1 CD. The installation screen starts automatically. If it does not start automatically then browse the CD and double-click on Setup.exe.
- Step 2: Select Install SPSS option. The wizard starts. Follow the steps and enter the License key and Click Update button and then Next button to complete the installation
- Step 3: Select Install Smart Viewer option. The wizard starts. Follow the steps same as above.

4.4. Oracle Installation

- 4.4.1. Oracle 9i Release2 Server Installation
 - Step 1: Insert disk 1 of 3 from the Oracle 9i Release2 Server CD's, and the installation of Oracle 9i starts
 - Step 2: Click on Install / Deinstall products and the Oracle Universal Installer: Welcome screen appears.





🛞 Oracle9i Client - Autorun		_ 🗆 ×
ORACLE		
Oracle9 <i>i</i> Client		
Install/Deinstall Products Explore CD Browse Documentation	ORACLE Di INTERNET	
	Oracle Home Page 5	Oracle Support

Step 3: On "Oracle Universal Installer: Welcome" screen click on Installed Products and see whether any Oracle Product is already installed or not.



Step 4: If it is a fresh Installation, this screen will be blank. On the contrary, if any product is listed (installed) check the checkbox against that product and click on Remove as shown in the screen below, else click on Close to come to the "Oracle Universal Installer: Welcome "screen. Click <**Next**> and "Oracle Universal Installer: File Locations" screen appears.



MInventory	< I
You have the following Oracle products installed:	
P-Independent Products	
- Oracle Homes	
⊖-OraHome90	
⊕-12 Oracle9i Database 9.2.0.1.0	
Product Information:	
Location:	
If you want to remove Oracle software, please checkmark the item(s) and click "Remove".	
Help Remove Save As Close	

Step 5: Do not change the source settings. The destination path can be altered if the shown drive has less disk space. Keep a note of Destination Path for further reference. Click <Next> to come to the "Oracle Universal Installer: Available Products" screen.

	Jniversai Ir	istaller: File Li	cations						_	
File L	Locatio	ons								
Sourc	e									
Enter th	e full path o	of the file repre	senting th	ne product(s) yo	ou want to ir	nstall:				
Path:	E:\stage\pr	oducts.jar							Browse)
Destir	nation									
Destir	nation	Oracle Home	ame and	tite full noth:						
Destir Enter or Name:	nation r select an i	Oracle Home	name and	i its full path:						
Destir Enter or Name:	n ation r select an OraHome	Oracle Home 92	name and	l its full path:		6				
Destir Enter or Name: Path:	nation r select an OraHome C:\oracle\	Oracle Home 92 ora92	name and	l its full path:					Browse	
Destir Enter or Name: Path:	r select an OraHome C:\oracle\	Oracle Home 92 ora92	name and	l its full path:					Browse	
Destir Enter or Name: Path:	nation r select an (OraHome C:\oracle\	Oracle Home 92 ora92	name and	l its full path:					Browse)
Destir Enter or Name: Path:	r select an OraHome C:toraclet	Oracle Home 92 ora92	name and	l its full path:		Abo	ut Oracle L	Jniver	Browse	
Destir Enter or Name: Path:	nation r select an i OraHome C:toraclet	Oracle Home 92 ora92	name and	l its full path:		Abor	ut Oracle (Jniver	Browse	
Destir Enter or Name: Path:	nation r select an OraHome C:\oracle\	Oracle Home 92 ora92	name and	l its full path:		Abo	ut Oracle U	Jniver	Browse rsal Installer	
Destir Enter or Name: Path:	nation r select an f OraHome C:toraclet	Oracle Home 92 ora92 Help	name and	i its full path:	Icts	Abo	ut Oracle L	Univer	Browse rsal Installer Next	

Step 6: Select Oracle 9i Database 9.2.0.1.0 and click *<Next>* to come to "Oracle Universal Installer: Installation Types" Screen.





Tracle Universal Installer: Available Products
Available Products
Select a product to install.
Oracle9i Database 9.2.0.1.0
Installs an optional pre-configured starter database, product options, management tools, networking services, utilities and basic client software for an Oracle database server.
C Oracle9i Management and Integration 9.2.0.1.0
Instalis the management server, management tools, Oracle Internet Directory, Oracle Integration Server, networking services, utilities and basic client software.
C Oracle9i Client 9.2.0.1.0
Installs enterprise management tools, networking services, utilities, development tools and precompilers and basic client software.
Product Languages
Exit Help Installed Products Previous Next
ORACLE

Step 7: Select Enterprise Edition for package A, Standard Edition for package B, Personal Edition for packages C and D. Click **<Next>** to come to the "Oracle Universal Installer: Database Configuration" screen.



Step 8: Select Software Only radio button and click <**Next>** to come to the "Oracle Universal Installer: Oracle Services for Microsoft Transaction Server" screen.





Gracle Universal Installer: Database Configuration	_
Database Configuration	
Select a database suited to your needs. C General Purpose Installs a pre-configured database optimized for general purpose usage	
C Transaction Processing Installs a pre-configured database optimized for transaction processing	
C Data Warehouse Installs a pre-configured database optimized for data warehousing	
C Customized Allows you to create a customized database. This option takes longer than the pre-configured options	
Software Only Installs software only and does not create a database at this time	\leq
	\leq
Exit Help Installed Products Previous Nex	1

Step 9: The Oracle software automatically identifies the port number of server and does not require user intervention. Click Step 4 Step 4</

😸 Oracle Univers	al Installer: Oracle Services f	or Microsoft Transacti	on Server	
Oracle S	ervices for Micro	soft Transact	ion Server	
Oracle MT	S Recovery Service C	onfiguration		
The Oracle MT Server. The Or transactions s listen for reque	S Recovery Service is automa acle MTS Recovery Service ac arted on this computer. Enter ists on this computer.	tically installed with Ora cepts requests to resol the port number on wh	acle Services for Microsoft T ve in-doubt MS DTC-coordi ich the Oracle MTS Recover	ransaction nated ny Service will
Port Number:	2030			
				\sim
				\sim
Exit	Help	stalled Products	Previous	Next
ORACLE				

Step 10: Click on Install and the installation starts with a progress bar showing the percentage of installation finished. During Installation it will prompt for Disk 2 of 3 as in the following screen



Oracle Universal Installer: Summary	<u>_ ×</u>
Summany	
Summary	
Uracle91 Database 9.2.0.1.0	
Ģ-Global Settings	
-Source : E:\stage\products.jar	
Oracle Home : C:\oracle\ora92 (OraHome92)	_
LInstallation Type : Enterprise Edition	
-Product Languages	
English	
P-Space Requirements	
C:\ Required 2.57GB (includes 90MB temporary) : Available 7.20GB	
-New Installations (225 products)	
-Advanced Queueing (AQ) API 9.2.0.1.0	
Advanced Replication 9.2.0.1.0	
-Agent Required Support Files 9.2.0.1.0	
Apache Configuration for Oracle Java Server Pages 1.1.2.3.0	
Exit Help Installed Products Previous	istall)
DRACLE	

Step 11: Enter disk 2 of 3 and click **<OK**>. Similarly disk 3 of 3 will be asked, enter disk 3.

Sisk Location	×
Please insert Oracle9i disk 2 in alternative location.	to your disk drive or specify an
Path: E3	Browse
Help	OK Cancel

Step 12: "Oracle Universal Installer: End of Installation" screen comes with the message saying "The installation of Oracle 9i Database was successful". Click <**Exit**> to come out of the installation wizard.





Oracle Universal Installer: End of Installation	
End of Installation	
The installation of Oracle9i Database was successful.	
Please remember	
The following information is available in: C:\oracle\ora92\Apache\Apache\setupinfo.txt	
The HTTP Server can be accessed using the following URLs:	
http://in039:7778 https://in039:4443	
Exit Help Installed Products Previous	Next Install

Step 13: Click Cancel to close the "Add Database to Tree" screen. Close the Oracle Enterprise Manager Console, Standalone application. Remove the CD from CD Drive.

🚓 Oracle Enterprise Manager Console, Standalone	
Eile Navigator Object Tools Configuration	Help EnterpriseManager
Elle Gangador Golect Loois Goldigation	Bit Weight and a databases to tree • Add a databases ganually <pre></pre>
	Quick Tour

- 4.4.2. Oracle 9*i* Release2 Database creation and configuration
 - Step 1: Go to Start→Programs→Oracle-OraHome92→Configuration and Migration Tools→Database Configuration Assistant.



My Compute	DataConver			
My Network Places	DeleteScrip			
7 Recycle Din	Document.rtf			
internet Explorer	data			
	New Office Document			
	Windows Update Set Program Access and Defaults			
**	Brograms	Accessories		Administration Assistant for Windows NT Database Configuration Assistant
essiona	Documents	Microsoft Word Trend Micro OfficeScan Client Course Software		Database Upgrade Aspirate Enterprise Manager Comparation reside (prefizibil)/aunch.exe Configuration resident
50 Prof	Seargh •	Vic Mapunro Vice Vice Vice Vice Vice Vice Vice Vice	Application Development Configuration and Migration Tools Extension Menagement Darks	Percosoft Cube, Hammed acor Net Configuration Assistant Net Manager
	gun		Enterprise Manager Quick Tools Integrated Management Tools Oracle HTTP Server	
Start	Shigt Down	ationdoc	Enterprise Manager Console	14:12

Step 2: On the "Database configuration Assistant: Welcome" screen, click Next.



Step 3: On the Database configuration Assistant: Step 1 of 8" screen, Click on "Create a database" radio button. Click **<Next>**





Database Configuration Assis	tant, Step 1 of 8 : Operations	
	Select the operation you want to perform	
	© Create a udatabase O Configure database options in a database	
	C Delete a database	
	C Manage Templates	
*		
Cancel Help	(<u> </u>	

Step 4: On the "Database configuration Assistant, Step 2 of 8" screen, Choose "General Purpose" and click <Next>

	0	Data Warehouse General Purnose	Yes
	9	General Purnose	
			Yes
	0	New Database	No
	0	Transaction Processing	Yes
Margang Balances Margang Balances			

Step 5: On the "Database configuration Assistant: step 3 of 7 " screen, Enter a database name (eg. gemspdb) in the Global Database Name textbox. SID textbox gets automatically filled in with the same name, the user need not change it. Click < Next>



Step 6: On the "Database configuration Assistant, step 4 of 7: Database Connection Options" screen, choose the "Dedicated Server Mode" radio button and click **<Next>**.

Database Configuration Assis	tant, Step 4 of 7 : Database Connection Options	
	 Select the mode in which you want your database to operate by default : Dedicated Server Mode For each client connection the database will allocate a resource dedicated to serving a client. Use this mode when the number of total client connections is expected to be si when clients will be making persistent, long-running requests to the database. Shared Server Mode Several client connections share a database-allocated pool of resources. Use this m when more than a small number of users need to connect to the database while efficiently utilizing system resources. The Oracle shared server feature will be efficiently utilizing system resources. The Oracle Shared Connections Parameters and the server ser	inly that nall or ode usly nabled. iters)
Cancel Help	🔇 Back Next 🦻	inish)

Step 7: On the "Database configuration Assistant, step 5 of 7: Initialization Parameters" screen, click on "All Initialization Parameters", to proceed to all Initialization Parameters Screen.



	Memory Ch	aracter Sets	DB Sizing	File Loc:	ations	Archive	
	 Typical 						
1	Percentage of ph	nysical memor	y (127 MB) for Oi	racle: 70			
	Database Type:			Mu	ltipurpose		
	Show distributi	ion of Memory.					
	Custom						
	Shared Pool:	503	31648		Bytes	-	
	Buffer Cache:	24			M Bytes	-	
	Java Pool:	335	54432		Bytes	-	
	Large Pool:	838	8608		Bytes	-	
	PGA:	251	65824		Bytes	-	
	Total Memory for	Oracle: 176	M Bytes		·		
	1 Total me paramete	mory includes ers , if any.	40MB of Oracle	Process Si	ize and the	defaults for f	.he empt
	All Initialization Parar	neters)			Fi	le Location V	ariables/

All Initialization Parameters	,		
Name	Value	Included (Y/N)	Category
optimizer_features_enable	9.0.1		Optimizer
remote_dependencies_m	TIMESTAMP		PL/SQL
parallel_threads_per_cpu	2		Parallel Executions
logmnr_max_persistent_s	1		Miscellaneous
nis_date_language			NLS
workarea_size_policy	MANUAL		Sort, Hash Joins, Bitmap Indexes
07_DICTIONARY_ACCES	FALSE		Security and Auditing
icense_max_sessions	0		License Limits
star_transformation_enabl	FALSE	v -	Optimizer
nis_date_format			NLS
lock_sga	FALSE		SGA Memory
fixed_date			Miscellaneous
remote_os_roles	FALSE		Security and Auditing
nis_comp			NLS
object_cache_max_size_p	10		Objects and LOBs
shared_memory_address	0		SGA Memory
db_recycle_cache_size	0		Cache and I/O
row_locking	always		ANSI Compliance
log_archive_duplex_dest			Archive
sql_trace	FALSE		Diagnostics and Statistics
db_block_buffers	0		Cache and I/O
undo_management	AUTO	 	System Managed Undo and Rollback Segments
oracle_trace_collection_p	?/otrace/admin/cdf		Diagnostics and Statistics
fast_start_parallel_rollback	LOW		Transactions
global_names	FALSE		Distributed, Replication and Snapshot
create_bitmap_area_size	8388608		Sort, Hash Joins, Bitmap Indexes
max_enabled_roles	30		Security and Auditing
gc_files_to_locks			Cluster Database
dh name	nemsndh		Database Identification

Step 8: In the All Initialization Parameters screen scroll down to "open_cursors" and change its value to 2000 as shown in the screen below.



Name	Value	Included (Y/N)	Category		
nls_length_semantics	BYTE		NLS		
nls_nchar_conv_excp	FALSE		NLS		
nls_numeric_characters			NLS		
nis_sort			NLS		
nls_territory	AMERICA		NLS		
nls_time_format			NLS		
nls_time_tz_format			NLS		
nls_timestamp_format			NLS		
nls_timestamp_tz_format			NLS		
object_cache_max_size_p	10		Objects and LOBs		
object_cache_optimal_size	102400		Objects and LOBs		
open_cursors	2000	×	Cursors and Library Cache		
open_links	4		Distributed, Replication and Snaps		
open_links_per_instance	4		Distributed, Replication and Snap		
optimizer_features_enable	9.0.1		Optimizer		
optimizer_index_caching	0		Optimizer		
optimizer_index_cost_adj	100		Optimizer		
optimizer_max_permutatio	2000		Optimizer		
optimizer_mode	CHOOSE		Optimizer		
oracle_trace_collection_n			Diagnostics and Statistics		
oracle_trace_collection_p	?/otrace/admin/cdf		Diagnostics and Statistics		
oracle_trace_collection_size	5242880		Diagnostics and Statistics		
oracle_trace_enable	FALSE		Diagnostics and Statistics		
oracle_trace_facility_name	oracled		Diagnostics and Statistics		
oracle_trace_facility_path	?/otrace/admin/fdf		Diagnostics and Statistics		
os_authent_prefix	ops\$		Security and Auditing		
os_roles	FALSE		Security and Auditing		
parallel_adaptive_multi_u	FALSE		Parallel Executions		
narallel automatic tuning	FAI SE		Parallel Executions		

Scroll down to "utl_file_dir " and enter "*" there. Be sure that a ✓ symbol comes in the Included(Y/N) column of the screen against "open_cursors "and "util_file_dir", then click <**Close**>

Name	Value	Included (Y/N)	Category		
shared servers	0		MTS		
	0		Sort, Hash Joins, Bitmap Indexes		
 sort_area_size	524288	~	Sort, Hash Joins, Bitmap Indexes		
spfile			Miscellaneous		
sql92_security	FALSE		Security and Auditing		
sql_trace	FALSE		Diagnostics and Statistics		
sql_version	NATIVE		Miscellaneous		
standby_archive_dest	?/dbs/arch		Standby Database		
standby_file_management	MANUAL		Standby Database		
standby_preserves_names	FALSE		Standby Database		
star_transformation_enabl	FALSE	~	Optimizer		
tape_asynch_io	TRUE		Backup and Restore		
thread	0		Cluster Database		
timed_os_statistics	0		Diagnostics and Statistics		
timed_statistics	TRUE	~	Diagnostics and Statistics		
trace_enabled	TRUE		Diagnostics and Statistics		
tracefile_identifier			Diagnostics and Statistics		
transaction_auditing	TRUE		Redo Log and Recovery		
transactions	41		Transactions		
transactions_per_rollback	5		System Managed Undo and Rollba.		
undo_management	AUTO	 ✓ 	System Managed Undo and Rollba.		
undo_retention	10800	 ✓ 	System Managed Undo and Rollba.		
undo_suppress_errors	FALSE		System Managed Undo and Rollba.		
undo_tablespace	UNDOTBS1	 ✓ 	System Managed Undo and Rollba.		
use_indirect_data_buffers	FALSE		Cache and I/O		
user_dump_dest	{ORACLE_BASE}a	~	Diagnostics and Statistics		
utl_file_dir	*	~	PL/SQL		
workarea_size_policy	MANUAL		Sort, Hash Joins, Bitmap Indexes		

Step 9: On the "Database configuration Assistant 6 of 7: Database Storage" screen, click <Next>



Database Configuration Assist	ant, Step 6 of 7 : Database Storage
Glorage - ∰ Controlfile - Datafiles Borger Redo Log Groups	Database Storage Arrow of the Database Storage page, you can specify storage parameters for the database concances and yeav the following objects: e.antroffile Babespaces Pathespaces Pathes
(Add Remove)	File Location Variables
Cancel Help	G Back Next > Einish

Step 10: On the "Database configuration Assistant, step 7 of 7: Creation Options" screen, click **<Finish>**

Bipatabase Configuration Assistant	t, Step 7 of 7 : Creation Options elect the following database creation options:	
Cancel Help	Save as a Database Template Name: Description:	Einish

Step 11: After the above step the following screen pops up showing all the details with which the database will be created. Make sure the changes done are reflected in the summary and click *<***O**K*>*





ava_pool_size	33554432	
ob_queue_processes	10	
arge_pool_size	8388608	
open_cursors	2000	
oga_aggregate_target	25165824	
processes	150	
query_rewrite_enabled	FALSE	
remote_login_passwordfile	EXCLUSIVE	
shared_pool_size	50331648	
sort_area_size	524288	
star_transformation_enabled	FALSE	
imed_statistics	TRUE	
undo_management	AUTO	
undo_retention	10800	
undo_tablespace	UNDOTBS1	
user_dump_dest	{ORACLE_BASE}\admin\(DB_NAME)\udump	
utl_file_dir	*	
Character Sets		

Step 12: In the screen below assign and confirm passwords for SYS and SYSTEM and click <**Exit**>

Database Configuration Assista	nt 🗵	:
Database creation complete. Che	ck the logfiles at C:\oracle\admin\gemspdb\create for details.	
Database Information: Global Database Name: g System Identifier(SID): g Server Parameters Filename: C	jemspdb jemspdb Xloraclelora92ldatabaselspfilegemspdb.ora	
Change Passwords		
For security reasons, you must s the new database.	specify a password for the SYS and SYSTEM accounts in	
SYS Password:	+ + + +	
Confirm SYS Password:	****	
SYSTEM Password:	****	
Confirm SYSTEM Password:	****	
Note: All database accounts except SYS, SYSTEM, DBSNMP, and SCOTT are locked. Select the Password Management button to view a complete list of locked accounts or to manage the database accounts. From the Password Management window, unlock only the accounts you will use. Oracle Corporation strongly recommends changing the default passwords immediately after unlocking the account.		
	Password Management)	
	Exit	

- 4.4.3. Oracle 9i Release2 Net configuration
 - Step 1: Go to Programs→Oracle-OraHome92→Configuration and Migration tools→Net Configuration Assistant





Step 2: On the "Oracle Net Configuration Assistant: Welcome" screen, Choose Listner Configuration radio button and click <**Next**>

Oracle Net Configuration Assistant:	Welcome	×
	Welcome to the Oracle Net Configuration Assistant. This tool takes you through the following common configuration steps: Choose the configuration you would like to do: Listener configuration Naming Methods configuration Local Net Service Name configuration Directory Usage Configuration 	
Cancel Help	Seck Next ≫	

Step 3: On the "Oracle Net Configuration Assistant: Listener Configuration, Listener" screen, choose Add radio button and click <**Next**>



Oracle Net Configuration Assista	ant: Listener Configuration, Listener	×
	For remote connections to be made to your Oracle database, you must configure a Oracle Net listener. The Oracle Net Configuration Assistant allows you to add, reconfigure, rename or delete a listener. Select what you want to do: @ Add	
	C Reconfigure	
	C Delete	
	C Rename	
Cancel Help	<u> </u>	

Step 4: On the "Oracle Net Configuration Assistant: Listener Configuration, Listener Name" screen, Listner name textbox gets automatically filled up with "LISTENER" (need not change it). Click <**Next**>



Step 5: On the "Oracle Net Configuration Assistant: Listener Configuration, Select Protocols" screen, click <**Next**>





Step 6: On the "Oracle Net Configuration Assistant: Listener Configuration, TCP/IP Protocol" screen, choose "Use the standard port number of 1521" and click <Next>.

Oracle Net Configuration Assistant:	Listener Configuration, TCP/IP Protocol	X
	Which TCP/IP port number should the listener use? The port number selected should not be used by any other software on this computer. • Use the standard port number of 1521 • Use another port number: 1521	
Cancel Help	(≩ack <u>Next</u>)	

Step 7: On the "Oracle Net Configuration Assistant: Listener Configuration, More Listeners" screen, choose No and click <Next>





Step 8: On the "Oracle Net Configuration Assistant: Listener Configuration Done". Click <Next>

Oracle Net Configuration Assistant: Listener Configuration	ion Done
Listener configuratio	n complete!
Cancel Help	(⊰ Back (Next ≫)

Step 9: Again the "Oracle Net Configuration Assistant: Welcome" screen appears. Choose "Local Net Service Name configuration" and click <Next>



Oracle Net Configuration Assistant: N	Welcome X
	Welcome to the Oracle Net Configuration Assistant. This tool takes you through the following common configuration steps: Choose the configuration you would like to do: C Listener configuration
	Naming Methods configuration Eccal Net Service Name configuration
	C Directory Users Conferentian
	O Directory osage Configuration
Cancel Help	Seck Next >>

Step 10: On the "Oracle Net Configuration Assistant: Net Service Name Configuration screen",choose Add and click <Next>



Step 11: On the "Oracle Net Configuration Assistant: Net Service Name Configuration, Database Version" screen, choose "Oracle 8i or later database or service" and click <Next>



Step 12: On the "Oracle Net Configuration Assistant: Net Service Name Configuration, Service Name" screen enter a service name in the Service Name textbox and click **<Next>**



Step 13: On the "Oracle Net Configuration Assistant: Net Service Name Configuration, Select Protocols" screen, choose TCP and click <Next>



Oracle Net Configuration Assistant: Net 9	Service Name Configuration, Select Protocols
	To communicate with the database across a network, a network protocol is used. Select the protocol used for the database you want to access.
Cancel Help	

Step 14: On the "Oracle Net Configuration Assistant: Net Service Name Configuration, TCP/IP Protocol" screen, enter the name of the local machine or the IP Address (as shown in the following screenshots) in Host Name textbox. Choose the radio button "Use the standard port number of 1521" and click <Next>

Oracle Net Configuration Assistant: N	et Service Name Configuration	n, TCP/IP Protocol 🔀
	To communicate with the da protocol, the database comp Enter the host name for the o is located. Host name: A TCP/IP port number is also standard port number shoul	tabase using the TCP/IP outer's host name is required. computer where the database [In039 o required. In most cases the d be used.
	Use the standard port nur Use another port number.	nber of 1521
Cancel Help	(< E	lack Next >>





Oracle Net Configuration Assistant: N	Net Service Name Configuration	n, TCP/IP Protocol	×
	To communicate with the da protocol, the database comp Enter the host name for the o is located. Host name: A TCP/IP port number is also standard port number shoul © Use the standard port num	tabase using the TCP/IP uter's host name is required. computer where the database [192.168.0.1] o required. In most cases the d be used.	
	C Use another port number:	1521	
Cancel Help	(ack Next >>	

Step 15: On the "Oracle Net Configuration Assistant: Net Service Name Configuration, Test" screen, choose "No, do not test" and click <Next>



Step 16: On the "Oracle Net Configuration Assistant: Net Service Name Configuration, Net Service Name" screen, the Net Service Name is automatically filled in. Need not change and click <**Next**>



Oracle Net Configuration Assistant: Ne	et Service Name Configuration, Net Service Name	×
	Choose a name for this net service name. The Oracle Net Configuration Assistant has defaulted the net service name to be the same as the service name you entered earlier, but you can change it to be any name you choose. Net Service Name: gemspdb	
Cancel Help	<u> ⊴ Back</u> Next ≫	

Step 17: On the "Oracle Net Configuration Assistant: Net Service Name Configuration, Another Net Service Name?" screen, choose No and click <Next>



Step 18: On the "Oracle Net Configuration Assistant: Net Service Name Configuration Done" screen ,click <**Next**>







Step 19: On the "Oracle Net Configuration Assistant: Naming Methods Configuration Done" screen, click <**Next**>

Step 20: Again from the "Oracle Net Configuration Assistant: Welcome" screen, click < Finish>

Oracle Net Configuration Assistant: Welcon	ne	×
	Welcome to the Oracle Net Configuration Assistant. This tool takes you through the following common configuration steps: Choose the configuration you would like to do: C Listener configuration Naming Methods configuration C Naming Methods configuration Directory Usage Configuration	
Cancel Help	Seack Next S Einish	5

Step 21: Go to Start→ Programs→Oracle-OraHome92→Configuration and Migration tools→Net Manager

Step 22: Click on Listeners and then Listener. After the details of the Listener are shown Click on Listening Locations.

Step 23: Select Database Services.

Oracle Net Manager - C:\oracle\ora92\NETWORK\ADMIN\	<u></u>
Ello Edit Contranol (billo Contrantino) Contrantino Contrecontra Contrantino Contrantino Contrantino C	Oversel Planmeders Unump Graded Oversel Planmeders Oversel Planmeders Planders Address Planders / Address Planders / Edited Planmeders Most 15222180 Host 15222180 Oversel Planmeders Graded Planmeders Graded Planmeders Add Address Remove Address

Step 24: If the screen shows the details of the Database Service make sure that the are as follows

Global Database Name: Name of the database as given in Oracle Step 5 of "Oracle 9*i* Release2 Database creation and configuration".

Oracle Home Directory : The destination path given as in Step 5 of "Oracle 9*i* Release2 Installation"

SID: Same as Global Database Name

If no Database Service is shown Click on Add Database.

Step 25 : Enter following details

Global Database Name: Name of the database as given in Oracle Step 5 of "Oracle 9*i* Release2 Database creation and configuration".

.....Oracle Home Directory : The destination path given as in Step 5 of "Oracle 9*i* Release2 Installation"

SID: Same as Global Database Name

Click on File \rightarrow Save Network Configuration to save the settings. Click on File \rightarrow Exit to complete the configuration.

- 4.4.4 Oracle 9i Release2 Client Installation
 - Step 1: Insert the Oracle 9i Release2 Client CD and the following screen appears

🎗 Oracle9i Client - Autorun		_ 🗆 X
ORACLE		
Oracle9 <i>i</i> Client		
Install/Deinstall Products Explore CD	ORACLE	
Browse Documentation	O i	
	INTERNET	
	\bigcirc	\bigcirc
	Oracle Home Page S	Oracle Support

Step 2: Follow the steps 3-5 described in Server installation to check the existing /installed oracle products and remove the same before installing Oracle client product on computer. Select Custom radio button and click <**Next**>.

Step 3:

- On the "Oracle Universal Installer : Available Product Components " screen, check the following checkboxes on the below screen
- o Oracle Network Utilities 9.2.0.1.0
- o Oracle Database Utilities 9.2.0.1.0
- SQL *Plus 9.2.0.1.0
- Oracle Windows Interfaces 9.2.0.1.0
- Oracle Programmer 9.2.0.1.0
- Oracle Universal Installer 9.2.0.1.0

And click <Next>

Oracle Universal Installer: Available Product Components		_ 🗆 🗙
Available Product Components		
Oracle9i Client		
The following are components that you can install as part of Ora you want to install?	cle9i Client. Which of these compo	nents do
Components	Install Status	
🖓 🗹 Oracle9i Client 9.2.0.1.0	New Install	
⊕ ☐ Oracle Enterprise Manager Products 9.2.0.1.0	Not Installed	
☑ Oracle Network Utilities 9.2.0.1.0	New Install	
☑ Oracle Database Utilities 9.2.0.1.0	Reinstall	_
□ Oracle Java Utilities 9.2.0.1.0	Not Installed	
☑ SQL*Plus 9.2.0.1.0	Reinstall	
☐ iSQL*Plus Extension for Windows 9.2.0.1.0	Installed (v.9.2.0.1.0)	
□ Oracle JDBC/OCI Interfaces 9.2.0.1.0	Installed (v.9.2.0.1.0)	
Oracle JDBC/THIN Interfaces 9 2 0 1 0	Not Installed	
Show all components including required dependencies.		
Exit Help Installed Products	Previous 1	Jext
RACLE		

Step 4: On the "Oracle Universal Installer :Component Location" screen, click <Next >

Oracle Universal Installer: Component Locations	
Component Locations	
Oracle9i Client 9.2.0.1.0	
You can change the destination locations for Non OracleHome component	ts:
Oracle Universal Installer 2.2.0.12.0	
Java Runtime Environment 1.3.1.1.0a	
Java Runtime Environment 1.1.8.16.0	
Show all components to be installed	
C: Program Files Oracle Journal of Cracle Universal Installer 2.2.0.12.0 :	Change Location
Available Disk Space on: C:\ 7.26GB	Required Disk Space for C:\: 312MB Total Required Disk Space: 312MB
Exit Help Installed Products	Previous Next
DRACLE	

Step 5: The Oracle software automatically identifies the port number of server(GEMSPDB) and does not require user intervention. Click <**Next** >to proceed to the "Oracle Universal Installer: Summary Screen".

Step 6: Click <**Install**> and the installation starts with a progress bar showing the percentage of installation finished.

Step 7: On the "Oracle Net Configuration Assistant :Welcome" screen, click <Next>

Oracle Net Configuration Assistant:	Welcome	×
	Nelcome to the Oracle Net Configuration Assistant. This tool takes you through the following common configuration steps: Directory Usage Configuration Naming Methods configuration Or, you can choose to have the Oracle Net Configuration Assistant complete a typical configuration for you. Press Help for more nformation.	
Cancel Help	C Back Next >>	

Step 8: On the "Oracle Net Configuration Assistant: Directory Usage Configuration" choose "No, I want to defer this configuration to another time" and click **<Next>.**

Oracle Net Configuration Assistant: Directory Usage Configuration		
	Several Oracle products have features which make use of a directory service. If you have a directory service, this assistant can complete the configuration necessary to allow these features to use your directory service. Would you like to complete this directory usage configuration?	
	C Yes, I want to complete this configuration now.	
	No, I want to defer this configuration to another time.	
	For more information press Help.	
Cancel	S Back Next S	

Step 9: On the "Oracle Net Configuration Assistant: Naming Methods Configuration, Select Naming Methods" click <**Next>**

Step 10: Follow the steps 11-19 described in "Oracle 9*i* Release2 Net configuration "

Step 11: On the "Oracle Net Configuration Assistant: Done" screen click <**Finish**>

Step 12: The Oracle Universal Installer: End Of Installation screen shows that the installation of Client was successful. Click <**Exit**>

4.5. **DSN Creation**

Data Source Name(DSN) is required by GEMS to connect to Oracle database.

Step 1: Go to Start \rightarrow Settings \rightarrow Control Panel and the following screen "Control Panel" appears.

Step 2: Click <Administrative Tools> and the following screen "Administrative Tools" appears.

🗃 Administrative Tools			
<u>File E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> e	ools <u>H</u> elp		11
📙 🗢 Back 🔹 🤿 👻 🔂 🔞 Searc	n 🖫 Folders 🎯 History 階 🕵 🗙 ᡢ		
Address 🔞 Administrative Tools			▼ @Go
Administrative Tools	Component Services Computer Management Data Sources (ODBC) Event Viewer Cocal Security Policy		
Select an item to view its description. Configures administrative settings for your computer	留Performance 語 Services 品 Telnet Server Administration		
See also: My Documents My Network Places My Computer			
8 object(s)		10.4 KB	Ny Computer

Step 3: Click on **<Data Sources(ODBC)**> and the following screen "ODBC Data Source Administrator" appears.

🕙 ODBC Data Source Adr	ninistrator	? ×
User DSN System DSN	File DSN Drivers Tracing Connection	Pooling About
<u>U</u> ser Data Sources:		
Name	Driver	A <u>d</u> d
dBASE Files dBase Files - Word Excel Files	Microsoft dBase Driver (*.dbf) Microsoft dBase VFP Driver (*.dbf) Microsoft Excel Driver (*.xls)	<u>R</u> emove
FoxPro Files - Word MS Access Database	Microsoft FoxPro VFP Driver (*.dbf) Microsoft Access Driver (*.mdb)	<u>C</u> onfigure
Visual FoxPro Database Visual FoxPro Tables	Microsoft Visual FoxPro Driver Microsoft Visual FoxPro Driver	
An ODBC Use the indicated o and can only b	r data source stores information about how t lata provider. A User data source is only vis e used on the current machine.	o connect to sible to you,
	OK Cancel Apply	Help

Step 4: Select "**System DSN**" tab page and the following screen "ODBC Data Source Administrator" with System DSN page opened appears.

🕙 ODBC Da	ta Source Administrator	×
User DSN	System DSN File DSN Drivers Tracing Connection Pooling About	
<u>S</u> ystem Da	ata Sources:	
Name	Driver Add	
	<u>B</u> emove	
	Configure .	i I
		-
3	An ODBC System data source stores information about how to connect to the indicated data provider. A System data source is visible to all users on this machine, including NT services.	
	OK Cancel Apply Help	

Step 5: Click <**Add**> and the following screen "Create new Data Source " appears.

Create New Data Source	Select a driver for which you want to set up (a data source.
	Name Microsoft Paradox Driver (*.db.) Microsoft Paradox-Treiber (*.db.) Microsoft Text Driver (*.txt; *.csv) Microsoft Visual FoxPro Driver Microsoft Visual FoxPro-Treiber Oracle in OraHome92 SpatialWare 4.5 Driver SQL Server	V ▲ 4. 4. 4. 4. 6. 6. 9. 4. 3. ▼
	< <u>B</u> ack Finish	Cancel

Step 6: Select "Oracle in OraHome92" and click **<Finish>**. The following screen "Oracle ODBC Driver Configuration appears."

acle ODBC Driver Configu	ration
Data Source Name	cgwb OK
Description	Cancel
TNS Service Name	GWDB Help
User ID	Test Connection
Application Oracle Wor Enable Result Sets Enable Closing Cursors Batch Autocommit Mode	karounds SQLServer Migration Translation Options Enable Query Timeout I Read-Only Connection I Enable Thread Safety I SQLGetData Extensions I Commit only if all statements succeed

Step 7: Enter Data Source Name and select the TNS Service Name (from list) and click <OK>. The following screen "ODBC Data Source Administrator" appears showing the new DSN in the list. This DSN name will be required at the time of GEMS installation.

🕅 ODBC Data Source Administrator	? ×
User DSN System DSN File DSN Drivers Tracing Connection F	ooling About
<u>S</u> ystem Data Sources:	
Name Driver	A <u>d</u> d
cgwb Oracle in OraHome92	
	<u>R</u> emove
	Configure
An ODBC System data source stores information about how the indicated data provider. A System data source is visibl on this machine, including NT services.) to connect to e to all users
OK Cancel Apply	Help

Step 8: Click **<OK>** to finish the DSN creation.

4.6. Data Script for inserting basic data in database

After loading all the software except GEMS, the most important step is to configure a database, which has all the schemas, database objects, necessary data

for GEMS to execute. This basic data is a pre-requisite for GEMS. The database has been created in section 4.4.2 as discussed in this manual

To insert the necessary data to the database, following script has to be executed.

The database script will be executed at the Server on Package A & B and for Package C & D, the script will be executed at the workstation on which Personal Oracle has been installed.

Steps to execute the Database Script

- 1. Locate **bat** folder in the CD.
- 2. Open a Command Prompt Window. Command Prompt window can be invoked by clicking Start /Run and enter cmd in the open text box and click on OK
- 3. Change directory to the **bat** directory in the CD.
- 4. Execute setup.bat (setup ↓).

(NB: If it says that batch file is already running, then delete C:\firstrun.txt and/or C:\firstinst.txt from C:\ directory)

- 5. Enter TNS name entry of the Server.
- 6. It will create 3 schemas and the user will be prompted to supply **Passwords** of **CGWBDEV**, **CGWB** and **CGWBREP** users .
- 7. The user will be asked for Machine Id. The Machine Id will be the tag number provided by M/s Tata Infotech Limited on the Server Machine in which Oracle Database has been installed(in case of A & B Sites). In case of C & D sites the tag no of the machine on which Oracle Database has been installed will be entered as Machine Id.
- 8. At last phase, it also asks for the State Id (*cf.* Appendix A(State ID's for Data Script)) for which only the Admin/Hydro data to be kept.
- After the script finishes, a log file will pop up. (Name of file will be C:\gemsdb_<date>_<time>.log). Check for any errors and take action accordingly. (For errors thrown from the script, proper messages would come up. For errors from Oracle, error numbers and messages would come up. Follow the Oracle manual).
- 10. Create folder GEMSDBA_Export in c:\ and GEMSDBA in c:\ GEMSDBA Export at A & B sites.
- 11. Create of default FTP Site at C:\GEMSDBA_Export\GEMSDBA at the Server.
- 12. Create an FTP user.

4.7. **GEMS Installation**

Step 1: Insert the GEMS CD and double click on the SETUP.exe file. The wizard starts and the following screen "Gems-Welcome" appears.

GEMS - Welcome	×
	Welcome to the GEMS Setup program. This program will install GEMS on your computer.
	It is strongly recommended that you exit all Windows programs before running this Setup program.
	Click Cancel to quit Setup and then close any programs you have running. Click Next to continue with the Setup program.
	WARNING: This program is protected by copyright law and international treaties.
~~~	Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalities, and will be prosecuted to the maximum extent possible under law.
	Next> Cancel

![](_page_44_Picture_1.jpeg)

Sten	2.	Click	<nevt></nevt>	the follow	wing screen	"GEMS	User	Information"	annears
Sicp	4.	CHUK	MUAIC,	the follo	wing sereen	<b>ULMD</b>	USUI	mormation	appears.

🚑 GEMS Setup			<u>-0×</u>
Groundwater Estimation	on a	nd Management System	(GEMS)
	Please ent work and t Ngme: Company: Seriat	In product serial number.	
		< <u>B</u> ack <u>N</u> ext> Cancel	

Step 3: Enter the Name of the user, Company Name and the Serial No as supplied with the CD and click <**Next**> the following screen "GEMS Destination Location" appears.

![](_page_44_Picture_5.jpeg)

![](_page_45_Picture_1.jpeg)

Step 4: The destination folder of the application can be set on the above screen. The setup by default sets the path as c:\program files \gems which can be left as it is and can be changed also. Click <Next> the following screen "GEMS SetupType" appears.

<u>®</u> terns setup <b>Groundwate</b>	e <b>r Estimatio</b> GEMS - SetupType	Select the Setup Type.	⊥⊡×
		< <u>Back</u> <u>Next</u> >	Cancel

Step 5: The user can select the application to be installed. It can be GEMS Application, GEMS Database Maintenance or Both of them. If GEMS Application is selected then clicking *<Next>* the following screen "GEMS ODBC for Application Dialog" appears.

🚑 GEMS Setup			<u>_0×</u>
Groundwater Es	timation a	<mark>nd Management S</mark> j	stem (GEMS)
CEMS - ODE	C For Application Dialog		X
	Please Er cgwbrep f	iter your Application ODBC, cgwb Password and Password.	
	DSN		-
	cgwb		
	cgwbrep	[	
		< <u>B</u> ack <u>N</u> ext > Cancel	

![](_page_46_Picture_1.jpeg)

Step 6:Enter the following details DSN Name : The DSN Name as created. Password for cgwb : nepzsrd Password for cgwbrep: cgwbrep

Step 7: If in GEMS SetupType screen "GEMS Database Maintenance" is selected then on clicking <Next> the following screen "GEMS-Host(Server) Name, TNS Name and DRM Name for Database Dialog" appears.

🛃 GEMS Setup	
Groundwater Estimatio	on and Management System (GEMS)
GEMS - Host(Server) Nam	Ine, TNS Name and DRM Name For Database Dialog       Image: Comparison of the Database and DRM Name.         Please Enter Host(Server) Name, TNS Name of Database and DRM Name.       Image: Comparison of the Database.         TNS Name: Enter the Server IP address or Name.       Image: Comparison of the Database.         DRMName: Enter the Data Receiving Machine Name.       Image: Comparison of the Database.         TNSName       Image: Comparison of the Database.         DRMName       Image: Comparison of the Database.
	<u>≺B</u> ack <u>N</u> ext> Cancel

Step 8: Enter the following details

HostName: Name of the Server or IP Address of the Server.

TNSName: Same as the Service Name entered in Step 12 of "Oracle 9i release 2 Net Configuration".

DRMName: The name of the machine that will be used for Receiving Data.

Click *<Next>* and "GEMS ODBC for Application Dialog" screen appears. Fill in details for this screen as discussed in Step-6.

![](_page_47_Picture_1.jpeg)

Step 9: If in GEMS SetupType screen "Both is selected " then details in "GEMS ODBC for Application Dialog " screen and "GEMS-Host(Server) Name, TNS Name and DRM Name for Database Dialog" screen will have to be provided as in step 6 and Step 8. After providing the details in any of the SetupType click *<*Next*>* and the installation starts with a progress bar showing the amount of installation completed. When the installation completes the following screen "Information" appears.

![](_page_47_Figure_3.jpeg)

Step 10: Enter Map data CD and select the path of the CD Drive which can be on the same PC or on some other PC on the network. Click **<OK>** and map data will be copied and the following screen "GEMS Setup Complete" will appear. If the path selected is wrong then the user will be prompted to select the correct path.

![](_page_48_Picture_1.jpeg)

G <b>roundwata</b>	e <mark>r Estimati</mark>	on and Management System	_□: (GEMS)
		Please reboot the Computer to finish setup.   Ýes, I want to restart my computer now,  No, I will restart my computer later.  Thank you for using GEMS.	
		< Back Finish	

- Step 11 : Select "Yes, I want to restart my computer now" and click *<***Finish***>*. This completes the GEMS installation.
- Step 12: After restarting the computer login in GEMS and change Machine Parameters as per the requirement.

## This completes the installation of software.

![](_page_49_Picture_1.jpeg)

#### 4.8. Appendix A

#### **FTP Server Installation**

Step 1: For FTP Server IIS needs to be installed. To install IIS go to Control Panel and click on Add/Remove Programs. The following screen "Add/Remove Programs" appears.

🖼 Add/Remov	ve Programs		
	Currently installed programs:	Sort by: Name	•
Change or Remove Programs	🔁 3Com DMI Agent		<u> </u>
	To change this program or remove it from your computer, click Change/Remove.	<u>C</u> hange/Ren	nove
<u>1</u>	🛃 3Com NIC Diagnostics		
Programs	3DField	Size	2.04MB
to an an	🔏 🕽 Adaptec DirectCD	Size	2.74MB
	🔀 Adobe Acrobat 4.0	Size	5.82MB
Add/Remove	K AGIS for Windows 2001 Edition v1.71	Size	5.37MB
Windows Components	🛃 APEX Olectra Chart 6.0		
	A×Tools EasyPatch 2001	Size	5.61MB
<b>1</b>	Belltech ScreenSmart 2.1	Size	2.09MB
Set Program	🕞 CamStudio	Size	28.9MB
Access and	CGWB Graphs	Size	1.71MB
Deraults	🏂 ChemStat Demo	Size	1.97MB
	COMM-DRV++ DEMO	Size	3.44MB
	Data Access Objects (DAO) 3.5		•

Step 2: On the above screen click on <**Add/Remove Windows Components**>. The following screen "Windows Component Wizard" appears.

Windows Components	
You can add or remove components of Wi	ndows 2000.
To add or remove a component, click the c	heckbox. A shaded box means that only
part of the component will be installed. To a Details.	see what's included in a component, click
<u>C</u> omponents:	
🔲 🗭 Indexing Service	0.0 MB 🔼
🗌 🥶 Internet Explorer	0.0 MB
🗹 🍓 Internet Information Services (IIS)	18.3 MB
🔲 豊 Management and Monitoring Tools	0.8 MB
Message Queuing Services	26MB 🗾
Description: Enables fast full-text searching	g of files.
Total disk space required: 0.3 N	1B Data 1
Space available on disk: 491.9 M	/B

![](_page_50_Picture_1.jpeg)

- Step3 : On the above screen check <**Internet Information Services(IIS)**> and uncheck all the other components if checked. Click <**Next**> and the installation starts.
- Step4: If the System asks for "Windows 2000 Professional CD" as in the following screen "Insert Disk".

![](_page_50_Picture_4.jpeg)

Step 5: Enter the CD and click **<OK>**. If the system does not detects the CD automatically the following screen "Files Needed" appears.

Files Need	led	×
_	The file 'admxprox.dll' on Windows 2000 Professional CD-ROM is needed.	OK Cancel
	Type the path where the file is located, and then click OK.	
	Copy files from:	
	F-\1386	<u>B</u> rowse

Step 6: Select the path through **<Browse>** and click **<OK>**. The installation resumes and in the end the following screen "Windows Component Wizard" appears.

![](_page_51_Picture_1.jpeg)

Windows Components Wizar	d	X
	Completing the Windows Components Wizard You have successfully completed the Windows Components Wizard.	
Windows 2000	To close this wizard, click Finish.	
	< <u>B</u> ack <b>[Finish</b> ]	

#### Step 7: Click < Finish>.

Step 8:On the Desktop right click *<***My Computer***>* as in the following screen.

![](_page_51_Figure_5.jpeg)

Step 9: On the menu which appears after right clicking My Computer select <**Manage**>. The following screen "Computer Management" appears.

![](_page_52_Picture_0.jpeg)

🛛 Computer Management					
Action ⊻iew   ⇐ →   🔁 💽	🗈 🖪 😫				
Tree	Name	Full Name	Description		
Computer Management (Local)  System Tools  System Tools  System Tools  System Tools  System Information  System Information  System Information  Storage  Cod Users and Groups  Cod Users  Cod Users	Administrator	Administrator cgwb Internet Guest Account Launch IIS Process Account In086 RMG	Account upgraded from Windows 95 Built-in account for guest access to th Built-in account for anonymous acces Built-in account for Internet Informatio RMG		
🚮 Start 🛛 💋 💋	Computer Managem	nent 🖲 Document1 - Micros	oft Word	<b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b></b> <b>_</b> <b></b>	

Step 10: In the above screen On the Tree Listing click <Local User and Groups>. Under that right click <Users> and select <New User> from the menu. The following screen "New User" appears.

New User		? ×
<u>U</u> ser name:	cgwb	
Eull name:		
Description:		
	NIMININ	_
Password:		_
<u>C</u> onfirm password		
User <u>m</u> ust cha	ange password at next logon	
🔽 U <u>s</u> er cannot d	hange password	
Password nev	/er expires	
🗌 🔲 Account is dis	abled	
	Create Clo	se

- Step 11: Enter the User Name. Give a password and confirm the password. Check <User cannot change password> and <Password never expires>. Click <Create>.
- Step 12:On the Tree listing right click **<FTP Site>** which is under **<Internet Information Services>** which again is under **<Services and Applications>** as in the following screen "Computer management"

![](_page_53_Picture_0.jpeg)

📙 Computer Management			X
<u>A</u> ction ⊻iew   ⇐ →   🔁 💽	압 🛛 🖧 😫 🗦 🕨	I II	
Tree	Name Path		Status
Computer Management (Local)  System Tool Explore  System Tool Explore  System Tool Explore  System Tool Explore  System Tool Perform  System Tool Start  System Tool	it of Directory		
🏽 Start 🛛 🖄 🛷	omputer Management 🗐 Doc	ument1 - Microsoft Word	🟒 💁 🥵 🖓 🌾 16:26

Step 13: On the menu select <**New**> and then <**Virtual Directory**>. The following wizard "Virtual Directory Creation Wizard" starts as in the following screen.

Virtual Directory Creation W	'izard	X
	Welcome to the Virtual Directory Creation Wizard	
	This wizard will help you create a new virtual directory on this FTP site.	
	Click Next to continue.	
	< <u>B</u> ack <u>Next</u> > Cancel	

Step 14: Click *<***Next***>*. The following screen of the wizard appears.

![](_page_54_Picture_0.jpeg)

![](_page_54_Picture_1.jpeg)

irtual Directory Creation Wizard	×
Virtual Directory Alias You must give this virtual directory a short name, or alias, for quick reference.	(C)
Type the alias you want to use to gain access to this virtual directory. Use the san naming conventions that you would for naming a directory.	ne
Alias: gems_ftp	
C Pack Novt > (	
	Januer

Step 15: Enter name and click *<***Next>**. The following screen appears.

P Site Content Directory Where is the content you want to publish on the FTP site?	
Enter the path to the folder containing the content.	
<u>P</u> ath:	
C:\Export\GWIS	B <u>r</u> owse
,	
/ Deels	Next > Cancel

Step 16: Enter the path as "C:\Export\GWIS". Click <Next> the following screen appears.

![](_page_55_Picture_0.jpeg)

![](_page_55_Picture_1.jpeg)

/irtual Directory Creation Wizard	×
Access Permissions What access permissions do you want to set for this virtual directory?	(J)
Allow the following:	
✓ <u>R</u> ead	
Vite	
Click Next to complete the wizard.	
< <u>B</u> ack <u>N</u> ext > 0	Cancel

Step 17: Check <**Read**> and <**Write**>. Click <**Next**> and the installation starts and in the end the following screen appears.

Virtual Directory Creation W	izard	×
	You have successfully completed the Virtual Directory Creation Wizard.	
	Click Finish to continue.	
	< <u>B</u> ack <b>Finish</b> Car	ncel

![](_page_55_Figure_5.jpeg)

Step 19: In the Computer Management screen in the Tree listing right click **<FTP Site** which is under **<Internet Information Services**> which again is under **<Services and Applications**> as in the following screen "Computer management"

![](_page_56_Picture_0.jpeg)

📮 Computer Management				_ & ×
Action ⊻iew   ⇐ →   🔁 💽	🗗 🖪 😫			
Tree	Name	Full Name	Description	
Computer Management (Local) System Tools System Tools System Tools System Information Sy	Administrator	Administrator cgwb Internet Guest Account Launch IIS Process Account In086 RMG	Account upgraded from Windows 95 Built-in account for guest access to th. Built-in account for anonymous acces. Built-in account for Internet Informatio RMG	
🏽 Start 🛛 🏹 🛷	Computer Manager	nent Document1 · Micros	oft Word	2 Q 00 S √ (€ 16:30

Step 20: In the menu select **<Properties>** and the following screen "FTP Site Properties" appears.

FTP Site Propert	ies	? ×
FTP Site Secur	ity Accounts Messages Home Directory Directory Security	
Allow Ano	nymous Connections	_
Select the W	/indows User Account to use for anonymous access to this resourc	e
<u>U</u> sername:	LN086\cgwb Browse	
<u>P</u> assword:	******	
	Allow only anonymous connections	
	Allow IIS to control password	
FTP Site Oper	ators	
Grant operal	or privileges to Windows User Accounts for this FTP site only.	
Opera <u>t</u> ors:	Administrators Add <u>R</u> emove	
· · · · ·		
	OK Cancel Apply He	elp

Step 21: Select <**Security Accounts**> tab page and enter the following detail. Username : Computer Name\User Name(as created earlier in Step 11) Password: Enter password

Select <**Home Directory**> tab page and the following screen appears.

![](_page_57_Picture_0.jpeg)

![](_page_57_Picture_1.jpeg)

FTP Site Properties	? X
FTP Site Security Accounts Messages Home Directory Directory Security	
When connecting to this resource, the content should come from:            • a girectory located on this computer             • a share located on another computer             FTP Site Directory             Local Path:            C:\Export\GWIS	
I Bead I Write I Log ⊻isits	
Directory Listing Style	
<ul> <li>● M<u>S</u>-DOS ●</li> </ul>	
OK Cancel Apply He	lp 🛛

Step 18: Select <a directory located on this computer> and enter the following detail on the above screen.

Local Path: C:\Export\GWIS Check <**Read**>, <**Write**> and <**Log Visits**> Under Directory Listing Style select <**MS-DOS**> Click <**OK**>

#### State ID's for Data Script

M_STATE_ID	M_STATE_NAME
101	Jammu and Kashmir
102	Himachal Pradesh
103	Punjab
104	Chandigarh
105	Uttaranchal
106	Haryana
107	Delhi
108	Rajasthan
109	Uttar Pradesh
110	Bihar
111	Sikkim
112	Arunachal Pradesh
113	Nagaland

![](_page_58_Picture_1.jpeg)

114	Manipur
115	Mizoram
116	Tripura
117	Meghalaya
118	Assam
119	West Bengal
120	Jharkhand
121	Orissa
122	Chhattisgarh
123	Madhya Pradesh
124	Gujarat
125	Daman and Diu
126	Dadra and Nagar Haveli
127	Maharashtra
128	Andhra Pradesh
129	Karnataka
130	Goa
131	Lakshadweep
132	Kerala
133	Tamil Nadu
134	Pondicherry
135	Andaman and Nicobar