

F.No.DGCI&S(EDP)/Trg./2017-18  
Government of India  
Department of Commerce  
Ministry of Commerce & Industry  
Directorate General of Commercial Intelligence & Statistics  
565, Anandapur, Sector-I, Plot No.22,  
Kolkata – 700 107.

Dated : **the 7<sup>th</sup> Feb., 2018.**

**Tender Notice**

Subject : **Quotation for imparting training to officers and staffs with JAVA course at DGCI&S, Kolkata.**

For and on behalf of the President of India, the Director General, Directorate General of Commercial Intelligence & Statistics, 565-Anandapur, Sector-I, Plot No.22, Kolkata – 700 107 invites sealed quotation for “**Imparting training to officers and staffs with JAVA course at DGCI&S, Kolkata**”.

Details of Tender Document is available in the website (<http://dgciskol.nic.in>) of this Directorate. Interested institutes capable to do so, may please submit the quotation in a sealed cover envelop separately for **Technical Bid** and **Financial Bid** super-scribing “**Tender for imparting training to officers and staffs with JAVA course at DGCI&S, Kolkata**” to the undersigned **by 3.00 p.m. of 28.02.2018.**

Earnest Money (refundable) to the tune of Rs.20,000/- (Rupees Twenty thousand) only in the shape of Demand Draft/Banker's cheque from any Nationalized/Scheduled Bank in favor of “**Director General, DGCI&S, Kolkata**” payable at Kolkata shall be deposited alongwith the tender. If the date of opening of the tenders (on 1<sup>st</sup> March, 2018 at 3.00 p.m.) does not materialize on the prescribed date and time due to the reasons beyond our control, the same will be opened on the next working day at the same time and place.

This office reserves all rights to accept or cancel any quotation without showing any reason.

(Subhajit Roy)  
Dy. Director & Head of Office

<b>Serial No. :</b>	
<b>Date of Issue</b>	
<b>Signature of the Issuing Office with seal</b>	

**Tender Document**

for

**Imparting training to officers and staffs with JAVA course  
at DGCI&S, Kolkata**

Last Date for submission of bids  
**28.02.2018 (03.00 P.M.)**

Govt. of India  
Department of Commerce  
Ministry of Commerce & Industry  
Directorate General of Commercial Intelligence & Statistics  
565-Anandapur, Sector-I, Plot No.22,  
Kolkata- 700107

*Tender Document for In-House Training.*

## **NOTICE INVITING TENDER (NIT) DETAILS**

Sl. No.	Description	
1.	Department Name	Directorate General of Commercial Intelligence & Statistics
2.	Tender No.	DGCI&S(EDP)/Trg./2017-18
3.	Tender Subject	Imparting training to officers and staffs with JAVA course at DGCI&S, Kolkata.
4.	Tender Type	Open
5.	Tender Category	Service with course materials.
6.	Schedule Opening Date	07.02.2018
7.	Schedule Closing Date	28.02.2018
8.	Bid Submission Closing Date and Time	28.02.2018 at 3.00 p.m.
9.	Bid Submission	In Person/by Registered Post
10.	Bid Opening Date and Time (technical bids)	01.03.2018 at 3.00 p.m.
11.	Place of Tender Opening	O/o DGCI&S, 565-Anandapur, Sector-I, Plot No.22, Kolkata 700 107
12.	Officer Inviting Bids	Head of Office, DGCI&S Kolkata
13.	Contact Person	Shri Sanjib Basu, Director
14.	Contact Details/ Telephones, Fax	Telephone: 2443-4054 Fax: (033)2443-4051
15.	Technical Eligibility Criterion	1. The vendor should be reputed and having experience in the field of work.
16.	Procedure for Bid submission	Bids shall be submitted as per time schedule.  All the supporting documents are required to be submitted.  a. Registration/Incorporation Certificate from authorized organization. b. Annexure -01,02,03 and 04 of tender document duly signed with office seal as a token of acceptance of our standard terms & conditions. c. Latest valid Income Tax Return of last three years. d. Total course charges as Price Bid in Annexure – 05 is to be submitted in a separate sealed cover and is to be submitted along with Technical bids on or before 28.02.2018 at 3.00 P.M. DGCI&S will not hold any risk and responsibility for non visibility of the scanned document or non receipt of hardcopies for the loss in transit.
17.	General Terms & Conditions	As per tender documents.

**IMPORTANT NOTES FOR TENDERERS**

1. The training institute must be certified from **Oracle Workforce Development Program** and recognized as Pearson **Vue Test Centre**.
2. Courses will be conducted weekly thrice between 9-11 A.M. in the morning (Monday , Wednesday and Friday). Availability of experience faculty in the time slot should be mentioned in technical specification. The course duration must be specified accordingly. **The classes will be held in-campus of DGCI&S, Kolkata.**
3. The bidder must have GST registration certificate.
4. There should be two sealed bids – The first containing the **Technical Bids** and the second containing the **Price Bids**.
5. Quality of teaching materials (whether in-house or any other source should be mentioned).
6. The certification, if any, of the training programme may be done from Oracle.
7. Other terms & conditions are as prevalent in Govt. Rules.
8. Payment will be made on completion of training program and subject to satisfactory services.
9. Last date of submission of quotation for both Technical Bid and Price Bid will be by 3.00 p.m. of 28.02.2018.
10. Authorization to impart training in JAVA.

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## Scope of Work

### Java SE7 Fundamentals :

- Introducing the java Technology
- Relating Java with other languages
- Showing how to download, install and configure the Java environment on a Windows system. Describing the various Java technologies such as Java EE, Java ME, Embedded Java SE
- Describing key features of the technology and the advantages of using Java
- Using an Integrated Development Environment (IDE)
- Thinking in Objects
- Defining the problem domain
- Identifying objects and recognizing the criteria for defining objects
- Introducing the Java Language
- Defining classes
- Identifying the components of a class Creating and using a test class Compiling and executing a test program
- Working with Primitive Variables
- Describing primitive data types such as integral, floating point, textual and logical
- Declaring variables and assigning values
- Using constants
- Using arithmetic operators to modify values
- Working with Objects Declaring and initializing objects Storing objects in memory
- Using object references to manipulate data
- Using JSE javadocs to look up the methods of a class
- Working with String and String Builder objects
- Using operators and decision constructs using relational and conditional operators testing quality between strings
- Evaluating different conditions in a program and determining the algorithm
- Creating if and if/else constructs
- Nesting and chaining conditional statements
- Using a switch statement
- Creating and Using Arrays
- Declaring, instantiating and initializing a one-dimensional Array Declaring, instantiating and initializing a two-dimensional Array Using a for loop to process an Array
- Creating and initializing an Array List
- Using the import statement to work with existing Java APIs
- Accessing a value in an Array or and Array List
- Using the args Array
- Using Loop Constructs
- Creating while loops and nested while loops
- Developing a for loop
- Using Array Lists with for loops Developing a do while loop Understanding variable scope
- Working with Methods and Methods Overloading
- Creating and invoking a Method
- Passing arguments and returning values Creating static methods and variable using modifiers
- Overloading a method
- Using Encapsulation and Constructors

- Creating constructors
- Implementing encapsulation
- Introducing Advanced Object Oriented Concepts
- Using inheritance
- Using types of polymorphism such as overloading, overriding and dynamic binding
- Working with superclasses and subclasses Adding abstraction to your analysis and design. Understanding the purpose of Java interfaces Creating and implementing a Java interface
- Handling Errors
- Understanding the different kinds of errors that can occur and how they are handled in Java
- Understanding the different kinds of Exceptions in Java
- Using Javadocs to research the Exceptions thrown by the methods of foundation classes
- Writing code to handle Exceptions
- The Big Picture
- Creating packages and JAR files for deployment using Java
- Two and three tier architectures
- Looking at some Java applications examples

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## **Scope of Work**

### **Java SE 7 Programming :**

#### **1) Java Platform Overview**

- Introductions
- Course Schedule
- Java Overview
- Java Platforms
- Open JDK
- Licensing
- Java in Server Environments
- The Java Community Process

#### **2) Java Syntax and Class Review**

- Simple Java classes
- Java Fields, constructors and methods
- Model objects using Java classes
- Package and import statements

#### **3) Encapsulation and Polymorphism**

- Encapsulation in Java class design
- Model business problems with Java classes
- Immutability
- Subclassing
- Overloading methods
- Variable argument methods

#### **4) Java Class Design**

- Access modifiers : private, protected and public
- Method overriding
- Constructor overloading
- The instance of operator
- Virtual method invocation
- Polymorphism
- Casting object references
- Overriding Object methods

#### **5) Advanced Class Design**

- Abstract classes and type generalization
- The static and final modifiers
- Field modifier best practices
- The singleton design pattern
- Designing abstract classes
- Nested classes
- Enumerated types

## **6) Inheritance with Java Interfaces**

- Java Interfaces
- Type of Inheritance
- Object composition and method delegation
- Implementing multiple interfaces
- The DAO design pattern

## **7) Generics and Collections**

- Generic classes and type parameters
- |Type inference (diamond)
- Collections and generic
- List, set and Map
- Stack and Deque

## **8) String processing**

- String manipulation with String Builder and String Buffer
- Essential String methods
- Text PARSING IN Java
- Input processing with Scanner
- Text output and formatting
- Regular expressions with the Pattern and Matcher classes
- Exception and Assertions**
- Exceptions categories
- Standard Java Exception classes
- Creating your own Exception classes
- Using try-catch and the finally clause
- Using try-with-resources and the Auto Closeable interface
- The multi-catch feature
- Best practices using exceptions
- Assertions

## **9) I/O Fundamentals**

- I/O using Java
- Reading the console input stream
- Writing to the console
- Using I/O streams
- Chaining I/O streams
- Channel I/O
- Reading and writing objects using Serialization

## **10) File I/O with NIO 2**

- The Path interface
- The Files class
- Directory and File operations
- Managing file system attributes
- Reading, writing and creating files
- Watching for file system changes



## **11) Threading**

- Operating system task scheduling
- Recognizing multithreaded environments
- Creating multi-threaded solutions
- Sharing data across threads
- Synchronization and Deadlock
- Immutable objects

## **12) Concurrency**

- Creating Atomic variables
- Using Read-Write Locks
- Thread-safe collections
- Concurrent synchronizers (Semaphore, Phaser and others)
- Executors and Thread Pools to concurrently schedule tasks
- Parallelism and the Fork-Join framework

## **13) Database Application with JDBC**

- Layout of the JDBC API
- JDBC drivers
- Queries and results
- Prepared Statement and Callable Statement
- Transactions
- RowSet 1.1 RowsetProvider and RowSetFactory
- The DAO Pattern and JDBC

## **14) Localization**

- Advantages of localization
- Defining locale
- Read and set locale using the Locale object
- Resource bundles
- Format messages, dates and numbers

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**Proforma for Technical Bid**

1. Name of the Firm/Company :
2. Address of the Firm :
3. Name of the person to be contracted :
4. Phone No./Fax No./E-mail ID/Mobile No. :
5. No. of Faculty in Java with their experience :
6. No. of Trainings in JAVA conducted during last two financial year 2016-17 and 2017-2018 (if for Government body, please mention). :
7. Total course duration in hours. :
8. Necessary enclosures :
  - a) Certificate in support of regular/certified from Oracle Workforce Development Program and recognized as Pearson Vue Test Centre. :
  - b) IT clearance certificate. :
  - c) List of reputed/Govt./Non-Govt. Organization, wherein the training performed. :

**Note: The vendors are to note that no extra time will be given to produce the required documents. The documents submitted on the tender due date will only be taken into account.**

**Authorized signatory of the Institute**

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**Proforma for Price Bid**

1. GST No. & PAN No. :
2. Name of operating Bank and A/c No./IFSC Code :
3. Rate/Course fees in details for maximum 10 – 12 participants :-
  - a) Rate per participants :
  - b) Total course fees :
  - c) Other charges, if applicable :
  - d) Details of Taxes (if any) :

- N.B. 1) No change in quoted rate will be allowed.  
2) TDS should be deducted as per Govt. rules.

**Authorized signatory of the Institute**

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