

(HEAD OFFICE: BANGALORE)

EXPRESSION OF INTEREST (EOI) FOR SHORTLISTING OF BIDDERS FOR ISSUANCE OF REQUEST FOR PROPOSAL (RFP) FOR SUPPLY, INSTALLATION, IMPLEMENTATION, INTEGRATION AND MAINTENANCE OF END-TO-END ENTERPRISE-WIDE DATA WAREHOUSE (EDW) SOLUTION.

**EOI REFERENCE NO.** : EOI 10/11-12

DATE OF EOI DOCUMENT : 24/01/2012

DATE OF PRE BID MEETING : 03/02/2012

LAST DATE FOR SUBMISSION OF EOI : 23/02/2012 upto 3.00 PM DATE OF OPENING OF EOI : 23/02/2012 at 3.30 PM

ISSUED BY: DEPUTY GENERAL MANAGER
CANARA BANK
ASSET PROCUREMENT & MANAGEMENT GROUP
DIT-WING, HEAD OFFICE
NAVEEN COMPLEX, 14, M G ROAD
BANGALORE 560 001

Contact Persons: Mr. Deepak Shukla

Mr. Alex P John

Data Warehouse Group, DIT, Naveen Complex.

Tel - 080-25582471 Fax- 080-25596539

Email: hoditdwg@canarabank.com

The cost of EOI document is Rs.25,000/-. The bid application can be downloaded from Bank's website <a href="www.canarabank.com/English/Scripts/EOI.aspx">www.canarabank.com/English/Scripts/EOI.aspx</a> The Bidder should pay the cost of the document by means of DD drawn on any scheduled Bank for Rs.25,000/- in favour of Canara Bank, payable at Bangalore and enclose the same with EOI response.



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EXPRESSION OF INTEREST (EOI) FOR SHORTLISTING OF BIDDERS FOR ISSUANCE OF REQUEST FOR PROPOSAL (RFP) FOR SUPPLY, INSTALLATION, IMPLEMENTATION, INTEGRATION AND MAINTENANCE OF END-TO-END ENTERPRISE-WIDE DATA WAREHOUSE (EDW) SOLUTION.

# A.INTRODUCTION

CANARA BANK, a premier Public Sector Bank is a Government of India Undertaking, established in 1906.

The Bank as at 30.09.2011 has 3432 branches spread all over India. The global business of the Bank as of September, 2011 is Rs.5,30,515 crores. The bank has 5 branches in foreign countries. The bank has 3 tier architecture with its corporate office at Bangalore, Circle Offices at 34 centres and branches across the country.

The Bank also has Retail Asset Hubs, SME Sulabhs, Agricultural Finance, NRI, Overseas, Prime Corporate, Personalized Savings Bank, Mahila branches etc. The Bank also has 8 subsidiaries/Joint Ventures viz, Canfin Homes Limited, Canara Venture Capital Fund Limited, Canbank Factors Limited, Canbank Computer Services Limited, Canara Bank Financial Services Limited, Canara Bank Securities Limited, Canara Robecco Asset Management Company Limited, Canara HSBC Oriental Bank of Commerce Life Insurance Company Limited.

The Bank has all its branches/offices deployed under Core Banking Solution. In order to render efficient service and to facilitate 24x7 banking, the Bank has enabled multi channels viz., ATMs, Net Banking, Mobile Banking, IVRS, Call Centre integrated with Core Banking Solution.

The IT Infrastructure of the Bank has multiple source systems as detailed in **Annexure V**.

# **OBJECTIVE:**

The Bank intends to build an Enterprise wide Data Warehouse solution that provides single source of reliable and consistent data for Business Intelligence towards

- i. Improving customer relation operations
- ii. Analysis of various business data to facilitate Bank Management to take informed decisions
- iii. Generation of Standard, Statutory and Adhoc Reports

The objective of this EOI is to shortlist eligible bidders to whom detailed Request for Proposal (RFP) would be floated for Study, Supply, Installation, Implementation, Integration and Maintenance of the end to end Enterprise wide Data Warehouse solution for Hardware, Software, Applications, Tools and Services which includes but not limited to ETL and Data Quality, Data warehouse, Business Intelligence and Analytical CRM (hereafter collectively referred to as "SOLUTION").

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# **B. SCOPE OF WORK**

1. The bidder's response to EOI for the SOLUTION should contain the following based on their implementation experience

# Define the indicative architecture.

Suitable Architecture for EDW has to be proposed factoring all the source systems as per Annexure V, change data capture, ETL, Operational Data Store, Data Cleansing, Master Data Management etc. to achieve the above objectives. Proper and optimal solutions are to be suggested for Hardware/Software, Data Model, Data Marts, DBMS, ETL layer, Analytic solutions including CRM, Data Mining, Data Quality Tools, Metadata Management, Information Access Layer, Backup and Recovery etc.

### a. Hardware

The bidder has to provide the details of the indicative hardware and environmental software (OS, firmware, etc) required to support the EDW as defined in the scope of the overall solution and all the related applications based on their implementation experience.

### b.Software:

Suitable tools proposed for ETL, Data Quality, Data Warehouse Database, Business Intelligence, Data Mining, should be capable of handling the following

# ETL:

Tools for extraction of data from various source systems, transform and load (ETL/ELT/ELTL) to EDW based on the Business rules and requirements as specified by the Bank and mapped to the data model customized for the Bank.

# **Data Quality:**

Tools for identifying the data quality issues and resolving the data quality problems are to be provided to have a clean and consistent data in Data Warehouse.

# Data Warehouse Database:

Data Warehouse is required to store granular, integrated, cleansed, enterprise data for BI, reporting, mining, and analytics. The Database should be able to create a centralized repository and capable of handling large volume of highly integrated data and must be scalable.

# **Business Intelligence:**

Business Intelligence tools to display and perform the job of interpreting the user requests and to help in developing the appropriate queries against the EDW, formatting and delivering the results back to the users in presentable format. The output will be either as standard reports/ adhoc reports or

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analytical reports using OLAP (Online Analytical Processing). Information should also be made available in various formats including Dashboards, Scorecards, and Charts etc.

# **Data Mining**

Data Mining would consist of mathematical and statistical models etc

# c.Statutory reports

The SOLUTION should be capable of generating Regulatory/ Statutory/Compliance reports.

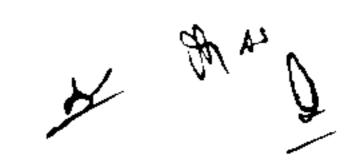
# d. MIS (Management Information System)

The SOLUTION should be capable of providing an Enhanced Business Decision Support at various levels of the Bank and it should support the Bank's initiative in performance measures also. Reports generation must support multiple formats like PDF, Excel, Word, Text, XBRL/XML, HTML etc.

# e. Customer Relationship Management.

The bidder should propose Analytical CRM. The SOLUTION may need to provide the analytical data/information required for CRM and may need to be integrated/ interfaced with the existing CRM application and MIS of the Bank for using the CRM application in a more effective way.

- 2. The indicative scope of work in the Request for Proposal (RFP) for EDW solution to be issued to the shortlisted bidders under this EOI would include but not limited to supply, install, implementation, maintenance and support of the Enterprise wide Data Warehouse solution as given below:
  - i) Studying and understanding all the current systems and databases of the bank required for the implementation of end to end Data Warehouse solution;
  - ii)Design, develop and implement end to end enterprise wide data warehouse solution to provide a single source of integrated, reliable and consistent repository of data involving the following tasks:
    - (a)Data acquisition including ETL, Staging, Source copy, etc.
    - (b) Data Profiling, Cleansing, Enrichment and Data Quality Governance workflow etc.
    - (c)Operational Data Store, Master Data Management, Data Warehouse repository, Data Access services and Delivery etc.
    - (d)Generation of Statutory, Standard and Adhoc reports
    - (e)Access and analyze the data, through sophisticated tools for informed decision making by the Bank management
    - (f)Data dictionary, metadata management workflow, etc.





iii)Optimal sizing of solution with reference to providing hardware, operating systems, database, ETL tools, Business Intelligence, Analytical CRM, Data Quality tools, Data Mining tools and any other component required for meeting the functional requirements & performance criteria stipulated by the Bank.

Solution Benchmark - The selected bidder may be required to conduct and submit a copy of the end to end EDW benchmark report for the SOLUTION, certified by an independent reputed organization, and estimated capacity of the solution proposed in meeting the Bank's requirements with consideration for future scalability.

iv)Providing managed services, extending annual maintenance and annual technical support during the contract period for the end to end data warehouse solution as required including renewal of the licenses wherever applicable during the contractual period.

# v)Manuals/documentation

Soft copies of User and Technical manuals are to be provided for all the functionalities/modules/hardware/tools proposed for the solution separately.

# vi)Bilingual

The solution should have the capability of providing bilingual format (English and Hindi) wherever necessary.

# vii)Training

Comprehensive training covering all aspects of EDW including functional and technical to be provided to all the identified Bank staff.

# **C.TERMS OF REFERENCE**

### 1. Definitions:

- 1.1 Prime Bidder/System Integrator: Prime Bidder / System Integrator is defined as the vendor providing the response to this EOI
- **1.2 Shortlisted Bidder:** The Prime bidder / System Integrator who qualifies the eligibility criteria and is shortlisted post evaluation by the Bank for the purpose of floating the detailed RFP.
- 1.3 Selected Bidder: Selected Bidder is the finally selected Shortlisted bidder to provide the SOLUTION post the detailed RFP evaluation by the Bank.

# 2. Permitted Options(any one of the below):

- 2.1 Prime Bidder / System Integrator response should be by proposing his own end-to-end solution and services
- 2.2 Prime Bidder / System Integrator response should be by proposing endto-end third party solutions and services.



2.3 Prime Bidder / System Integrator response should be by proposing end to end solution which can be a combination of his and third party solutions and services.

# 3. Conditions:

- 3.1 The Prime Bidder / System Integrator should take overall responsibility for all the deliverables as part of this EOI response.
- 3.2 Following References of Prime Bidder / System Integrator will be considered for eligibility and evaluation. The document required is
  - Latest certificate issued on organization letterhead (certificate date should be post the EOI release date) as per Annexure IX

In addition to the latest certificate the bidder has to provide

- Copy of Contract or Copy of Purchase order (price masked) for the purpose of verification for each of the product/service implemented
- Client contact details i.e. Person Name, Contact Numbers, e-mail and year of implementation. Bank may take the feedback from the references as per Bank's discretion.
- **3.3** The Prime Bidder / System Integrator experience gained by doing subcontracting work and/or by providing manpower will not be considered as valid experience.
- 3.4 The Prime Bidder / System Integrator should submit valid industry certifications for the Bidder organization and OEM wherever applicable in terms of Process maturity, Product security, Product Architecture, Quality, etc.
- 4. The Prime Bidder / System Integrator must furnish
  - -The names and details of the Partners/Associates/Consortium members/OEMs with whom the EDW project will be carried out and products/services offered by them as per Annexure II separately.
  - The list of all products proposed with details of Partners/Associates/Consortium members/OEMs as per Annexure X
- 5. The Prime Bidder / System Integrator will be the single point of contact/reference to the Bank. The Bank will enter into agreement with the Selected Bidder only. However, the Prime Bidder / System Integrator as well as other Partners/Associates/Consortium members/OEMs must confirm to the Bank that they are willing to enter into back to back agreement that is in conformity with the deliverables and other service/uptime commitments the Prime Bidder / System Integrator makes to the Bank under the contract to be entered into. If requested the Selected Bidder must share a copy of the back to back agreement with the Bank and the Prime Bidder/System Integrator should submit an undertaking letter as per Annexure I supporting the same.

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- 6. The Prime Bidder / System Integrator for this EOI can submit only one bid. However the Prime Bidder / System Integrator can propose multiple options in the single bid for the SOLUTION required for the Bank. Each option proposed needs to meet the eligibility criteria individually as laid out in the EOI. Documentary evidences for the Product/Services/OEM implementations have to be submitted for the individual product/s proposed separately as per Annexure IX. The Shortlisted Bidders also cannot change their proposed products during the period of the Shortlisting and their products proposed for the detailed RFP have to be within the options mentioned as part of the EOI response.
- 7. The Prime Bidder / System Integrator must also have experience in studying existing databases/Bank's systems and in gathering the requirements and in supply/installation/integration/implementation of the solution including the design and construction of the Enterprise wide Data Warehouse solution suitable to the Bank.
- 8. The Prime Bidder / System Integrator should submit a detailed summary of the understanding of the Bank's requirements as per this EOI, bidders capabilities including that of the Partners/Associates/Consortium members, product description/ solution in respect of the SOLUTION including methodology of implementation (Max.10 Pages).
- 9. The Prime Bidder / System Integrator should furnish at least one comprehensive case study of the Data Warehouse solution deployed by them in an organization of similar magnitude giving the details of the complete system architecture including hardware, software, ETL, Data Quality, Database, Business Intelligence, Analytics, Data Mining Tools, Access controls and Security. (Max. 5 Pages)
- 10. The Prime Bidder / System Integrator should demonstrate/present the proposed solution and also arrange for the visits to the sites where their solution has been implemented, if requested by Bank. In cases where the sites are located abroad the bank may make enquiries based on the references furnished by the bidder.

# **D.ELIGIBILITY CRITERIA**

Only such of the interested bidders who have strong financial strength and technical competence to undertake and execute a Data warehouse project with multiple source systems and minimum data warehouse raw data size of 5 TB as a total turnkey solution and who meet the following eligibility criteria alone need to submit response to the Expression of Interest:

1. The Bank intends to procure the best of the breed products for Enterprise wide Data warehouse solution. Hence, in order to ensure that the Bank gets the best of the breed, the prime bidder should offer any of the products mentioned in the latest Gartner's magic quadrant - Leaders list for ETL, Database and Business

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Intelligence. However in case the prime bidder chooses to offer a product which is not there in the Gartner's magic quadrant - Leaders list, then such products proposed should have been implemented and running in any large BFSI organization in India with Data warehouse raw data size of minimum 5 TB and satisfying the Business Turnover/Business Mix of Rs. 2,00,000 crore as on Mar'2011

- 2. The Prime Bidder / System Integrator will be qualified for having implementation experience in Data warehouse provided the following have been implemented by the Prime Bidder / System Integrator for the purpose of the Data Warehouse
  - 2.1 ETL preferably with Data Quality
  - 2.2 The Database for the Data Warehouse
  - 2.3 BI preferably with Analytics

In case the Prime bidder / System Integrator is unable to provide a valid certificate in support of Point D-2 then Bank would not be able to consider the Prime Bidder / System Integrator as having experience in the Data Warehouse implementation. This is also clarified in Eligibility table 4-b below.

3. Eligibility table

	Eligibility Criteria	Documents to be submitted
1.	The Prime Bidder / System Integrator and leader of consortium bidding for the EOI must be a company incorporated and registered in India preferably with a branch/office in Bangalore.	Incorporation and Certificate of Commencement of Business to
2.	The average annual turnover of Prime Bidder / System Integrator should be not less than Rs.500 crore in IT (Information Technology) products, services and implementation during the past three years ending with 31 <sup>st</sup> March, 2011.	statements for the last three financial years ending with
3.	The Prime Bidder / System Integrator must be a profit making company (operating profits) during the last three financial years ending with 31st	statements for the last three financial years ending with



	March 2011.	In case Annual Reports/financial statements are not containing operating profit, a suitable certificate from the Chartered Accountant certifying the operating profit for the last three financial years ending with 31.03.2011 is to be furnished.
	Integrator should have the experience of having implemented a DW solution in at least one large BFSI organization and having a Data Warehouse raw data size of minimum 5 TB that has a minimum Business Turnover / Business Mix of - Rs.2,00,000 Crores as on Mar'2011 in India  OR -USD 40 Billion as on Mar'2011 or	implemented and currently running, on their letterhead (Current status to be certified by organization not earlier than the date of the EOI release)  Further, the details of scope of work should also be furnished in the above certificate/Copy of Contract/Purchase Order
		furnish client name and contact details for each client separately
4.	b. The Prime Bidder / System Integrator should have experience in implementation of Data warehouse solution including the following 1. ETL preferably with Data Quality 2. The Database for the Data Warehouse 3. BI preferably with Analytics	A certificate as per Annexure IX from the organization where it is implemented and currently running, on their letterhead (Current status to be certified by organization not earlier than the date of the EOI release)
	In case the Prime Bidder / System Integrator is unable to provide a valid certificate for all three as per Annexure IX in support of 4 b then Bank would not be able to consider the Prime Bidder / System Integrator as having experience in the Data Warehouse implementation	Further, the details of scope of work should also be furnished in the above certificate/Copy of Contract/Purchase Order  The bidder/OEM should also furnish client name and contact details for each client separately
4.	c. The product/s proposed to be offered for ETL preferably with Data Quality, the Database for the Data	and a certificate as per



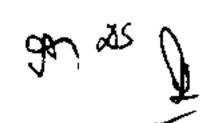
Warehouse and BI preferably with Analytics should be either from latest Gartner's magic quadrant - Leaders list OR should have been implemented and running in any large BFSI organization in India with Data warehouse raw data size of minimum 5 TB and satisfying the Business Turnover/Business Mix of Rs. 2,00,000 crore as on Mar'2011 and such OEM products should be currently running.	implemented and currently running, on their letterhead (Current status to be certified by organization not earlier than the date of the EOI release)  Further, the details of scope of work should also be furnished in
5. The Prime Bidder / System Integrator and their Partners/Associates/Consortium members/OEMs whose hardware/ software is proposed to be supplied to the Bank must have presence in India and should be able to support the project in Bangalore and Mumbai during the contract period.	Annexure II indicating the details of their branches/offices is to be
6. The Prime Bidder / System Integrator must be ISO 9001 - 2000 or CMMi level 5 Certified Company	
7. The Prime Bidder / System Integrator must have at least 15 skilled staff experienced in implementing the EDW Solution to be able to deliver and support the proposed solution.	1

# Application Fee/Earnest Money Deposit:

All bidders will have to submit the following and only those bids with the application fee and EMD will be considered as eligible and taken up for evaluation

1	Application fees of Rs. 25,000/- Non-refundable	The application can be downloaded from Canara Bank website, application fee of Rs.25,000/- is to be submitted along with the EOI by way of DD.					
2	Non Interest EMD for Rs. 10,00,000/-	By way of DD favoring Canara Bank, Bangalore or Term Deposit in the name of					







	Canara Bank for a period of 12 months or Bank Guarantee favoring "Canara Bank" from a scheduled commercial Bank in India (except Canara Bank) as per the format provided in the Annexure IV valid for a period of 12 months with a claim period of three months.
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# 4. Important Instructions:

- a. The Prime Bidder / System Integrator should ensure submission of all the required documents in support of eligibility criteria in Section D.
- b.The EMD's would be returned to the unqualified bidders post the completion of the EOI Shortlisting process.
- c.The EMD of the shortlisted bidders will be returned only after submission of the bid by the shortlisted bidder in response to the RFP to be released by Bank for EDW solution.
- d. In case any Shortlisted Bidders fails to respond to RFP to be released by the Bank, then the EMD submitted by the Prime Bidder / System Integrator in response to the EOI would be forfeited and no claim will be entertained in this regard.
- e. If the EMD/BG submitted to the Bank expires before the release of RFP, then the Bank shall request the shortlisted bidders to extend the validity period of the BG for a reasonable period and in case the bidder fails to arrange to extend the validity period, the Bank shall forfeit the EMD/BG and no claim will be entertained in this regard.
- f. The Shortlisted Bidders should ensure that the EMD/BG submitted with the response to EOI, is in force till the opening of the response of the Shortlisted Bidders to the RFP for EDW solution.
- g. As and when necessary they should extend the validity of EMD/BG to ensure the above.
- h. BFSI includes Banks, Financial Services and Insurance companies
  - in India with a Business Turnover/Business Mix of more than 2,00,000 crore INR as on Mar'2011
  - •in Abroad with a Business Turnover/Business Mix of more than USD 40 billion as on Mar'2011 or Dec'2010 as the case maybe

# **E.GENERAL TERMS AND CONDITIONS**

- 1. Only those bids where application fee is paid and EMD is furnished as required and as per the procedure will be taken up for evaluation.
- 2. The bidders who have complied with the eligibility criteria as per Section D: no. 4 Eligibility table will be shortlisted for issuance of Request For Proposal (RFP) for EDW solution.



- 3. The Bank reserves the right to accept / reject any or all EOI received in response to this advertisement without assigning any reasons, whatsoever.
- 4. Bank reserves the right to remove any Shortlisted Bidder or all Shortlisted Bidders without assigning any reason whatsoever. The decision taken by the Bank shall be final and no representation or correspondence in this regard shall be entertained.
- 5. By responding to the EOI, the Prime Bidders / System Integrators are stating unconditional acceptance to the terms and conditions as laid out by the Bank in the EOI and agreeing to submit the bid in response to the detailed RFP to be released for the purpose of the SOLUTION.
- 6. The Prime Bidder / System Integrator should be an authorized partner / under contract with the partner/OEM for providing and maintaining such solution/product/service from the partner/OEM and copy of the relevant credential letters and supporting documents have to be provided as per Annexure I.
- 7. The prime bidder / system integrator is required to submit available copies of the individual product benchmark report and estimated capacity of the solution proposed in meeting the Bank's requirements with consideration for future scalability.
- 8. The Selected Bidder should ensure due participation, support and physical involvement of the Partners/OEMs during the implementation of the SOLUTION.
- 9. End of Sales/End of Support/End of Life:
  The Prime Bidder / System Integrator has to ensure that any equipment proposed as part of the EOI response will not have reached the End of sales/End of support/End of Life for at least 5 years post the date of the EOI release. The Prime Bidder / System Integrator has to provide supporting documents for the same as per Annexure II.
- 10. The Shortlisted bidders will be required to participate in the evaluation process for the Selected Bidder including providing presentations and responding to the detailed RFP to be floated to them.
- 11.EOI responses received after the deadline for lodgment of EOIs at the address mentioned will not be accepted by the Bank and hence bidders are advised to submit their responses within the stipulated time and no excuses / reasons for delay will be accepted by the Bank
- 12.Bank will notify the Respondents in writing about the outcome of the EOI evaluation process, including whether the Respondent's EOI response has been accepted or rejected. Bank is not obliged to provide any reasons for any such acceptance or rejection.

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- 13.Any form of canvassing/lobbying/influence/query regarding shortlisting, status etc may lead to a disqualification of the Prime Bidder / System Integrator.
- 14. The Bank reserves the right to vary this time frame at its absolute and sole discretion and without providing any notice/intimation or reasons thereof. Changes to the time frame will be informed to the affected Prime Bidders / System Integrators during the process.
- 15. The time schedule will be strictly followed. Interested parties are expected to adhere to these timelines. However, the bank reserves the right to change the aforementioned timelines.
- 16.Unless expressly overridden by the specific agreement to be entered into between the Bank and the Bidder, the EOI document shall be the governing document for arrangement between the Bank and the Prime Bidder / System Integrator in the interim.
- 17. Preliminary Scrutiny The Bank will scrutinize the EOI response to determine whether they are complete, whether any errors have been made in the offer, whether required documentation has been furnished, whether the documents have been properly signed, and whether items are quoted as per the schedule. The Bank may, at its discretion, waive any minor non-conformity or any minor deficiency in the Prime Bidder's / System Integrator's EOI response. This shall be binding on all Prime Bidder's / System Integrator 's and the Bank reserves the right for such waivers and the Bank's decision in the matter will be final.
- 18. Erasures or Alterations The Prime bidder should avoid erasures or alterations in EOI response. However if there are such erasures or alterations in the response, such erasures or alterations should be properly authenticated by authorized person.
- 19. Presentation Prime Bidders / System Integrators shall make presentations, as part of the final evaluation in accordance with the responses given for the identified requirements, any time after the date for submission of the response to the EOI. The Bank will communicate a date and time to the Bidder any time after the last date for submission of response to the EOI.
- 20. During the process of evaluation the Bank at its discretion will seek clarifications wherever necessary. And in all such cases the Prime Bidder / System Integrator shall submit its response within the time stipulated by the Bank. If the Prime Bidder / System Integrator fails to submit his response within the time stipulated it will be deemed that Prime Bidder / System Integrator has nothing to submit and the Bank shall proceed with the evaluation as the Bank deems fit as per the original response to the EOI submitted.



### F.SHORTLISTING PROCEDURE

The bidders will be shortlisted as per the following process:

- 1. Only those Prime Bidders / System Integrators who satisfy the eligibility criteria as per <u>Section D</u> are eligible for shortlisting. Bidders have to submit their Bid as per the format in Annexure VII and with documents detailed in checklist as per Section H.
- 2. Prime Bidders / System Integrators satisfying the eligibility criteria will be shortlisted by the Bank after due scrutiny, evaluation of documents and based on the presentations made by them.
- The presentation, materials etc. presented/submitted before the Bank will become the property of the Bank.
- 4. If at any time it is found that information provided in the bid for shortlisting is false / incorrect, the Bank may at its discretion disqualify such Prime Bidder / System Integrator /s from the shortlist without giving any notice.
- 5. During the shortlisted period, the bank will prepare and float a detailed RFP amongst the shortlisted bidders for EDW solution.

### G.INSTRUCTIONS TO THE PRIME BIDDERS / SYSTEM INTEGRATORS

- 1. The response should be submitted in a structured format as per the checklist appended and it should be paginated. Each page of the application should be signed by person/s on behalf of the organization having necessary authorization / Power of Attorney to do so, duly affixing the company seal. Copy of Power of Attorney or Authorization Letter from the company should be furnished along with the Bid.
- 2. A pre-Bid meeting of the intending bidders will be held at 3.30 pm on Friday, 03 February 2012 at Canara Bank, Conference Hall, II Floor, Naveen Complex, 14 M G Road, Bangalore 560 001 to clarify any point/doubt raised by them in respect of this EOI. No separate communication will be sent for this meeting. All communications regarding points requiring clarifications and any doubts shall be given in writing/ e-mail by the intending bidders to the Contact persons mentioned in page no 1 in this document before 03.00 pm on Tuesday,31 January 2012 as per the Pre-bid query format in Annexure XI. No queries will be entertained after pre bid meeting.

Authorized representative of interested bidders shall be present during the scheduled time. The Bank shall clarify the queries during the pre bid meeting and replies along with the queries shall be uploaded in the Banks website and no individual correspondence shall be made. No individual consultation shall be entertained.

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3. The Sealed envelope containing the response to EOI along with the required documents shall be super scribed on the top of the envelope with "EXPRESSION OF INTEREST FOR SHORTLISTING OF BIDDERS FOR ISSUANCE OF REQUEST FOR PROPOSAL (RFP) FOR SUPPLY, INSTALLATION, IMPLEMENTATION, INTEGRATION AND MAINTENANCE OF END-TO-END ENTERPRISE-WIDE DATA WAREHOUSE (EDW) SOLUTION IN RESPONSE TO THE EOI 10/11-12 DATED 24/01/2012". The EOI response should be deposited in the Tender Box kept at Canara Bank, DIT Wing, First floor, Naveen Complex, 14 M G Road, Bangalore - 560 001, on or before 3.00 PM, Thursday, 23<sup>rd</sup> February 2012. The response to the EOI should be addressed to:

THE DEPUTY GENERAL MANAGER

CANARA BANK

ASSET PROCUREMENT & MANAGEMENT GROUP

DIT - WING, NAVEEN COMPLEX,

14, MG ROAD, BANGALORE - 560 001

Only those bids which are deposited in the tender Box within the stipulated time mentioned above will be considered for opening. Submission of bids by any other mode will not be considered for the purpose of opening and evaluation.

- 4. The bids will be opened in the presence of the bidders on Thursday, 23<sup>rd</sup> February 2012 at 03.30 PM at Canara Bank, 2nd Floor, Main Conference Hall, Naveen Complex, 14, M G Road, Bangalore-560001. The bidder's authorized representative may be present during the bid opening at our office address mentioned above well in time along with the authorization letter from the company as per Annexure VI. The bidders may note that no further notice in this regard will be given and in case bidder /s fail to be present for the bid opening, it will be deemed that bidder is not interested in participating in the bid opening and Bank shall proceed with opening of the bids. Further, in case the Bank does not function on the aforesaid date due to unforeseen circumstances or Holiday, then the EOI will be accepted up to 03.00 PM on the immediate next working day and EOIs will be opened at 03.30 PM at the same venue on the same day.
- 5. The Expression of Interest is not an offer by Canara Bank to provide end to end EDW solution but an invitation to get the response from the interested bidders for short listing the Prime Bidders / System Integrators for EDW solution. No contractual obligations whatsoever shall arise from the Expression of Interest process.
- 6. No offer can be modified or withdrawn by a bidder after submission of Bid/s.

7. Bid /s submitted without EMD or application are liable to be rejected.

<u>}</u>



- 8. If the Bidder withdraws their offer before finalization of short listing by the Bank, the EMD shall be forfeited.
- 9. If the shortlisted bidder amends the offer or withdraws from the short listing or fails to provide a response to the detailed RFP then the EMD shall be forfeited and no claim will be entertained in this regard.
- 10. The Bank may modify the EOI by issuing addenda for any reason, at any time prior to final date of submission of response to EOI. Any addendum to EOI shall be part and parcel of original EOI document. The addenda shall be uploaded in the Bank's website and the same will be binding on the bidders.
- 11. Bidders have to submit the softcopy of EOI response in a CD-R, which is super scribed as "EXPRESSION OF INTEREST FOR SHORTLISTING OF BIDDERS FOR ISSUANCE OF REQUEST FOR PROPOSAL (RFP) FOR SUPPLY, INSTALLATION, IMPLEMENTATION, INTEGRATION AND MAINTENANCE OF END-TO-END ENTERPRISE-WIDE DATA WAREHOUSE (EDW) SOLUTION IN RESPONSE TO THE EOI 10/11-12 DATED 24/01/2012". In case of any mismatch between the softcopy and hardcopy of the EOI response, the hardcopy of EOI response will be treated as valid response and relied upon.
- 12. Jurisdiction of the Court-The jurisdiction of the Court is Bangalore
- 13. Confidentiality of the Document:

This document is meant for the exclusive purpose of bidding as per the terms, conditions and specifications indicated and shall not be transferred, reproduced or otherwise used for purposes other than for which it is specifically issued.



### H.CHECKLIST

Interested Prime Bidder / System Integrator conforming to the above requirements may respond to the EOI and submit their bid alongwith the following:

- 1.A DD for Rs.25,000/- ( non refundable) by way of Demand Draft favoring Canara Bank payable at Bangalore towards application fee.
- EMD of Rs. 10,00,000/- by DD / Term Deposit / Bank Guarantee as per Annexure IV
- 3. Covering Letter Format as per Annexure I
- Prime Bidder / System Integrator / Partners/Associates/Consortium members/OEMs Profile as per Annexure II.
- 5. Bid format as per Annexure VII
- 6. Summary of the understanding of the Bank's requirement by the bidder as described in point no 8 under section C (Maximum 10 pages)
- 7. One case study by the bidder as mentioned in point no 9 under section C (max 5 pages)
- 8.List of Bidder's major customers where the solution is running As per Annexure III
- 9. Soft Copy of EOI response in a CD-R
- 10. Bid Compliance Certificate as per annexure VIII
- 11. Confirmation for compatibility of the product/s proposed by the Partners/Associates/Consortium members/OEMs as per annexure II
- 12. All other documents to support the eligibility criteria like audited balance sheet, PL account etc for both the Prime Bidders / System Integrators as well as the Partners/Associates/Consortium members/OEMs.
- 13. Organization Certificate as per Annexure IX
- 14. Proposed consortium details as per Annexure X
- 15. Indicative architecture of the SOLUTION
- 16. Copy of Power of Attorney or Authorisation letter from the Company for the Authorised signatory.

Bid should be arranged in the above serial order and submitted.

R Rajendran

**Deputy General Manager** 



# **ANNEXURE I: COVERING LETTER FORMAT**

EOI Reference No: 10/11-12

Date:

To

The Deputy General Manager, Canara Bank, Asset Procurement & Management Group, DIT, Naveen Complex, 14 M G Road, Bangalore - 560 001 Karnataka

Dear Sir,

EOI Ref: EOI - 10/11-12 DT: 24/01/2012

Having examined the EOI document including all Annexures, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to shortlist our company to supply, install, implement, integrate, maintain and support the SOLUTION in conformity with the intent of said EOI.

If we are shortlisted, we undertake to participate in the detailed RFP process FOR SUPPLY, INSTALLATION, IMPLEMENTATION, INTEGRATION AND MAINTENANCE OF END-TO-END ENTERPRISE-WIDE DATA WAREHOUSE (EDW) SOLUTION to the Bank within the given period.

- -We enclose a Demand Draft for Rs.25,000/- in favour of Canara Bank as application fee.
- -We also enclose DD/Term Deposit/Bank Guarantee for Rs.10,00,000 towards EMD
- -We agree to abide by and fulfill all the terms and conditions of the EOI and in default thereof, to forfeit and pay to you or your successors, or authorized nominees such sums of money as are stipulated in the conditions contained in EOI.
- -The partners/OEMs proposed by us are our authorized partners /under contract
- -We will ensure due participation, support and physical involvement of our OEMs/Partners during the implementation of the SOLUTION, if applicable.
- -We agree that unless expressly overridden by any specific agreement to be entered into in between the Bank and the Prime Bidder / System Integrator, this EOI document shall be the governing document for arrangement between the Bank and the Prime Bidder / System Integrator / Partners/Associates/Consortium members/OEMs in the interim.
- -We agree to submit the copies of back to back agreements entered into by us with our Partners/Associates/Consortium members/OEMs to the Bank if requested.

Our PAN number for Income Tax is _			·			
We are registered with the Sales numbers are as follows.	Tax/Service	Tax	authorities	and	our	registration
Sales Tax/VAT Registration Number	is		<u> </u>			
Service Tax Registration Number is			•			
	Dana 10 of 22		لسا	کم	V.	
	Page 19 of 33		7		£-1	



<u>Our Bank Details:</u>
Name and style of Bank account :
Name of the Bank and Branch Address :
Account Number :
RTGS / NEFT Code:
We accept all the Instructions and Terms and Conditions of the subject EOI.
Dated thisday of2012
Signature
(Signature of the Authorized Signatory with date & seal) Name : Designation : Organization Name:
No of the second



# ANNEXURE II: PRIME BIDDER / SYSTEM INTEGRATOR /OEM DETAILS

EOI Reference No:	10/11-12	Date:
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To

The Deputy General Manager, Canara Bank, Asset Procurement & Management Group, DIT, Naveen Complex, 14 M G Road, Bangalore - 560 001 Karnataka

# THE PRIME BIDDER / SYSTEM INTEGRATOR /OEMs/PARTNERS/ASSOCIATES/CONSORTIUM MEMBERS PROFILE

SI.	· · · · · · · · · · · · · · · · · · ·	Details
No.	Particulars	
	Name of the Bidder/ Partner/Associate/Consortium	
1	member/OEM	
2	Address of Head Office/Registered Office	
	Telephone number	
	Fax number	
	E-mail Address	
	Website address of the Company	· · · · · · · · · · · · · · · · · · ·
	Key person (s) with contact details	<del></del>
3	Address of Bangalore Office	
	Telephone number	· · · · · · · · · · · · · · · · · · ·
	Fax number	
	Email Address	<u> </u>
	Website address of the Company	
·	Key person (s) with contact details	:
4	Authorized Official with Name, Designation, Contact Phone	
<del> </del>	No./Mobile No. / FAX No. etc for the EOI	
5	Product/ s / service proposed	
	Number of years experience in supply/implementation of	
6	the solution / service / product	

We hereby confirm our adherence to the terms and conditions of the EOI for the products and services proposed against this EOI by the Prime Bidder / System Integrator, and hereby undertake to meet the obligations as set out in the EOI in respect of such information, documents, equipment's and services proposed. Our products/equipments proposed will not reach End of sales/End of support/End of life for at least 5 years post the date of this EOI.



We also confirm that we have the necessary infrastructure and resources to support the EDW Project from Bank's site at Bangalore and Mumbai.

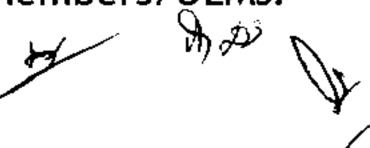
We hereby declare that the information submitted above is true to the best of our knowledge. We understand that in case any discrepancy is found in the information submitted by us, our tender is liable to be rejected.

# We also confirm that Gartners's Mag	product/s proposed in Serial No.5 are gic Quadrant - Leaders list as on- be mentioned here))
We confirm that the above product /s compatible with EDW solution.	referred under item 5 above is / are
Signature of Prime Bidder / System Integrator	Signature of Partner/Associate/Consortium member/OEM

# Strike off if not applicable

# Notes:

- 1. The Prime Bidder / System Integrator as well as each of the Partners/Associates/Consortium members/OEMs should provide separate profiles as per the above format
- 2. In case of Prime Bidder / System Integrator, document has to be signed by Prime Bidder / System Integrator alone and in case of Partners/Associates/Consortium members/OEMs document has to be signed by both Prime Bidder / System Integrator as well as Partners/Associates/Consortium members/OEMs.



ANNEXURE III: LIST OF MAJOR CUSTOMERS

 $\mathcal{N} = \ell$ 

EOI Ref: No. 10/11-12 Name of Prime Bidder / System Integrator /Partners/Associates/Consortium members/OEMs LIST OF MAJOR CUSTOMERS WHERE THE SOLUTION IS IMPLEMENTED BY THE PRIME BIDDER / SYSTEM INTEGRATOR /PARTNERS/ASSOCIATES/CONSORTIUM MFMBFRS

	Status	of	implem	entation	(Yet to	begin,		progress		Complet ed)					18	
		•		•	•					•• • • • • •	Raw	Data	Size	for DW	17	
											AC	₽¥			16	
											Presen	tation	Layer	Tools	15	
											Busin	ess	Analy	tics	14	
											Data	Mode	_		13	
	ف										Data	Qualit	y Tools		12	
	Details of SW with Version Nos.										Data	Mining	Tool		11	
	with Ve										<u>B</u>	T00			10	
	of SW										ETL	Tool			6	
	Details										ΜO	Data	pase		8	
	Details	of HW	provid	þə	-										7	
	Wheth	e.	refere	nce	Letter	Enclos	pa								9	
MEMBERS	Mention	year of	Ě	tation	(inc{uding	commenc	ement	and	completio	n date)					5	
SUCIALES/ CONSORTIUM MEMBERS	Name,	Designation,	Telephone,	Fax, Telex		address of the	contact	person	(customer)				•		4	
	Annual	Turnover	of the	organizati	ou										3	
/ PAKI NEKS/ ASSU	Name and	complete	Postal	Address of	the	Customer	(Purchaser	::							2	
4 N	S	•	z	0	•										_	

(Enclose necessary documentary proof)

Signature of the Authorized Signatory with date & seal Note:The bidders/partners/associates/consortium members should submit the above declaration separately. The table should be prepared in an easily readable Microsoft Excel format.

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Page 23 of 33

# ANNEXURE IV: BANK GUARANTEE FORMAT FOR EARNEST MONEY DEPOSIT

То		
***************************************	*********	
************************	******************	
*************************	*************************	
******************	******************	
shortlisting of	has submitted its Bid dated	(Name of Bidder) (hereinafter called (Date) for the (hereinafter called "the Bid") in fter called the "Employer";
Office at (hereinafter Rs which payme	ate constituted under theamongst oth called "the Bank" are bour(Rupees	le to the said Employer, the Bank binds
	ON of this obligation is:	
listing; OF If the Shortli	₹	uation process before finalization of short or withdraws from the short listing; OR response to the detailed RFP.
first written provided that	demand without the Employ	to the above amount upon receipt of his yer having to substantiate his demand, will note that the amount claimed by him bove condition.
Notwithstand	ing anything contained herein	
(Rupe ii) This B iii) We ar Bank demai	esank Guarantee is valid up to _ e liable to pay the guarantee Guarantee only and only i	and ed amount or any part thereof under this f you serve upon us a written claim or(mention period of guarantee
Dated	day of	20
CICNIATURE	THE DANK	
SIGNATURE C	THE BANK	



# ANNEXURE V: LIST OF DEPARTMENTS(WINGS) / SOURCE SYSTEMS

Following are the list of Departments (Wings) existing at present which would need to be covered for this EDW initiative. Each Department (Wing) is having sections for handling the respective functional areas. The list is only illustrative and not exhaustive.

- Chairman & MD's Secretariat
- Executive Directors' Secretariat
- Compliance Department
- Personnel Wing
- 5. Corporate Credit Wing
- Risk Management Wing
- **Priority Credit Wing**
- Retail Banking Wing
- Inspection Wing
- 10. Department of Information Technology Wing
- 11. Financial Management & Subsidiaries Wing
- 12. Credit Administration Wing
- Financial Inclusion Wing 13.
- 14. Prime Corporate Credit Wing
- Strategic Planning & Development Wing
- 16. Recovery Wing
- Treasury & International Operation Wing 17.
- General Administration Wing 18.
- 19. Credit Monitoring Wing
- 20. Transaction Banking Wing
- 21. MSME Wing
- 22. Vigilance Wing.

Following are the list of Bank's important IT systems / applications existing at present which would need to be covered for this EDW initiative. The list is only illustrative and not exhaustive.

- CBS (including all subsystems)
- ALM Software
- Risk Management Software
- 4. HRMS
- 5. **CARD Software**
- 6. Treasury Software
- Payment System Software
- 8. **CDCRM Software**
- **AML Software**
- 10. CRM (Talisma)
- 11. Depository Back Office System.
- Net banking & Mobile Banking 12.
- 13. ATM /SWITCH
- Other Applications including MIS Software/Packages, 14.
- Softwares used by our Subsidiaries that are Canara Robecco, **15.** Mutual Fund/Canara Robecco Asst Mgmt Company, Canara HSBC Insurance Co, Canbank Venture Capital Fund, Canbank Factors, Canara Bank Securities, Canbank Computer Services Ltd, Canbank Financial Services Ltd, Canfin Homes Ltd etc.

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# ANNEXURE VI: AUTHORIZATION LETTER FORMAT (To be brought at the time of opening of Bids)

The Deputy General Manager Canara Bank, Asset Procurement & Management Grou DIT Wing Naveen complex, 14 MG Road Bangalore - 560 001	DateDD-MM-YYYY
Dear Sir,	
SUB: <u>Authorization Letter for attending</u>	the Bid Opening
REF: YOUR EOI NO: 10/11-12 dated	24-01-2012
implementation, integration, mainten solution.  Mr./Miss/Mrs.	for Shortlisting of bidders for supply installation ance and support end to end Data warehous is hereby authorized to ever EOI NO: 10/11-12 dated 24-01-2012 o
on behalf of our organ	
The specimen signature is attested belo	DW:
	Specimen Signature of Representative
Signature of Authorizing Authority	Signature of Attesting Authority
Name of Authorizing Authority	



# ANNEXURE VII: FORMAT FOR THE SUBMISSION OF THE BID

EOI Ref: 10/11-12

Eligibility Response of				
Sr no	Criteria	Documents to be submitted	Complian ce to the criteria ( yes / No)	Details of Document submitted
1	The Prime Bidder / System Integrator and leader of consortium bidding for the EOI must be a company incorporated and registered in India preferably with a branch/office in Bangalore.	Incorporation and Certificate of Commencement of Business to be furnished.		
2	turnover of Prime Bidder / System Integrator should be not less than Rs.500 crore in IT (Information Technology) products, services and implementation during the	In case Annual Reports/financial statements are not containing segment wise turnover, a suitable		
3	Integrator must be a profit making company (operating	Certified/Audited financial statements for the last three financial years ending with 31.03.2011 to be furnished.  In case Annual Reports/financial statements are not containing operating profit, a suitable certificate from the Chartered Accountant certifying the operating profit for the last three financial years ending with 31.03.2011 is to be		

# केनरा बैंक 🗘 Canara Bank

		furnished.	
4	System Integrator should have the experience of having implemented a DW solution in at least one large BFSI organization and having a Data Warehouse raw data size of minimum 5 TB that has a minimum Business Turnover / Business Mix of	A certificate as per Annexure IX from the organization where it is implemented and currently running, on their letterhead (Current status to be certified by organization not earlier than the date of	
	OR USD 40 Billion as on Mar'2011 or Dec'2010 as	certificate/Copy of Contract/Purchase Order  The bidder/OEM should also furnish client name and contact details for each	
4	b. The Prime Bidder / System Integrator should have experience in implementation of Data warehouse solution including the following 1. ETL preferably with Data Quality 2. The Database for the Data Warehouse	A certificate as per Annexure IX from the organization where it is implemented and currently running, on their letterhead (Current status to be certified by organization not earlier than the date of the EOI release)	
	3. BI preferably with Analytics In case the Prime Bidder / System Integrator is unable to provide a valid		
	certificate for all three as per Annexure IX in support of 4 b then Bank would not be able to consider the Prime Bidder / System Integrator as having experience in the Data Warehouse implementation	The bidder/OEM should also furnish client name and contact details for each client separately	
(L)			

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	c. The product/s proposed	A declaration as per		
	· ·	Annexure II and a certificate		
	1	as per Annexure IX from the		
4		organization where it is		
	1	implemented and currently		
		· ·		
		running, on their letterhead		
	should be either from	,		
	_	certified by organization not		
	1	earlier than the date of the		
	should have been	,		
	implemented and running			
		Further, the details of scope		
!	organization in India with	of work should also be		
	Data warehouse raw data	furnished in the above		
	size of minimum 5 TB and			
	satisfying the Business	- F		
	Turnover/ Business Mix of			
		The bidder/OEM should also		
	Mar'2011 and such OEM			
		contact details for each		
	currently running.	client separately		
	carretty raining.	ctient separatety		
	The Prime Bidder / System	A suitable declaration as per		
		Annexure II indicating the		
	Partners/Associates/	.		
	·	details of their branches/offices is to be		
5	whose hardware/ software	<b>1</b>		
	is proposed to be supplied			
	to the Bank must have			
	presence in India and			
	should be able to support			
	the project in Bangalore			
	and Mumbai during the			
	contract period.			
	The Design of the control of the con			
4		A copy of the certificate to		
6	Integrator must be ISO	be furnished.		:
	9001 - 2000 or CMMi level 5			
	Certified Company			
		A suitable declaration by the		
	Integrator must have at			
	least 15 skilled staff	furnished		
7	experienced in			
'	implementing the EDW			
	Solution to be able to			
	deliver and support the			
	proposed solution.			
C: a	nature of authorized signators		<u>l</u> .	

Signature of authorized signatory with date and seal.



# ANNEXURE VIII: BID COMPLIANCE CERTIFICATE

The Deputy General Manager
Canara Bank,
Asset Procurement & Management Group
DIT Wing, Naveen complex, 14 MG Road
Bangalore - 560 001

Date \_\_\_DD-MM-YYYY\_\_\_\_\_

EOI Ref: 10/11-12

PAGE No.	Clause No.	Complied (Y/N)	PAGE No.	Clause No.	Complied (Y/N)
4	B-1		10	D-3-4a	
7	3.2		10	D-3-4b	
7	3.4	<u> </u>	10	D-3-4c	
7	4	·	11	D-3-5	
7	5		11	D-3-6	
8	6		11	D-3-7	
8	7		11	1	
8	8		11	2	
8	9		13	E-6	
8	10		13	E-7	
8	D-1		15	F-1	
9	D-2		15	G-1	
9	D-3-1		15	G-2	
9	D-3-2		18	H	
9	D-3-3		<u> </u>		

We hereby declare that the information submitted above is true to the best of our knowledge. We understand that in case any discrepancy is found in the information submitted by us our tender is liable to be rejected.

Signature of authorized signatory with date and seal.

of the

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# ANNEXURE IX: ORGANIZATION CERTIFICATE FORMAT

All product references must be accompanied by a c head, in the following format:	ustomer letter on their le	etter
The Deputy General Manager Canara Bank, Asset Procurement & Management Group DIT Wing Naveen complex, 14 MG Road Bangalore - 560 001	DateDD-MM-YYYY	
Ref : EOI No 10/11-12		
Dear Sir,		
Subject: Certificate for Proof of Work done for t solution	he purpose of data wareh	nouse
	n/product/tool/appliance	
, 20 and it is currently rur	nning in our organization.	•
The total warehouse raw data size is	TB.	
Yours Faithfully,		
Authorized Signatories (Name & Designation, Seal of the firm)		
Note: The above format is to be submitted for ETI and for other product/tool etc.(if any).	L, Data Warehouse(Data	Base), BI



# **ANNEXURE X: PROPOSED CONSORTIUM DETAILS**

To	
The Deputy General Manager	DateDD-MM-YYYY
Canara Bank,	
Asset Procurement & Management Group	
DIT Wing	
Naveen complex, 14 MG Road	
Bangalore - 560 001	
Ref : EOI No 10/11-12	
Name of the Drime Bidder / System Integrator	_
Name of the Prime Bidder / System Integrator	•

Sr.	Product	ct Name of Products / Services Offered			j
No.		Company	Option 1	Option 2	Etc.
1.		-			
2.					
3.				<u>-</u>	· · · · · · · · · · · · · · · · · · ·
4.			<u> </u>		
5.			<u>-</u>		
6.			······································		·
Etc					
					·

# Important note:

The Shortlisted Bidders cannot change their proposed products during the period of the Shortlisting and the products proposed for the detailed RFP have to be within the options mentioned as part of the EOI response.

	ized Sign & Design	natories nation, Seal of the firm	1)
χάŞ	A		7

# **ANNEXURE XI: PRE-BID QUERY FORMAT**

Sr. No	Section Ref.	Page No.	EQI Text	Clarification Sought by Prime Bidder / System Integrator
	·	<u>                                     </u>	<del></del>	
	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
			· · · · · · · · · · · · · · · · · · ·	
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\$ 125

etc

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